General Motors Upfitter Integration

BODY BUILDER MANUAL

ELECTRICAL SECTION

FOR THE

2017 CHEVROLET LOW CAB FORWARD MEDIUM DUTY 3500-4500

Note to User:
As part of our mission to provide an up-to-date website that includes detailed Body Builder Manuals, Technical Bulletins, and Best Practice Manuals, we are now using sectional excerpts directly from the General Motors Service Information publications for our Electrical Body Builder Manuals.

You will note that the section numbers are non-sequential as we have provided only those that are believed to be the most pertinent to the Upfitter community and best suited to their needs.*

This new usage of the Service Information provides the opportunity for us to remain consistent with the changes that take place throughout the model year and to provide you updated information in a more timely fashion.

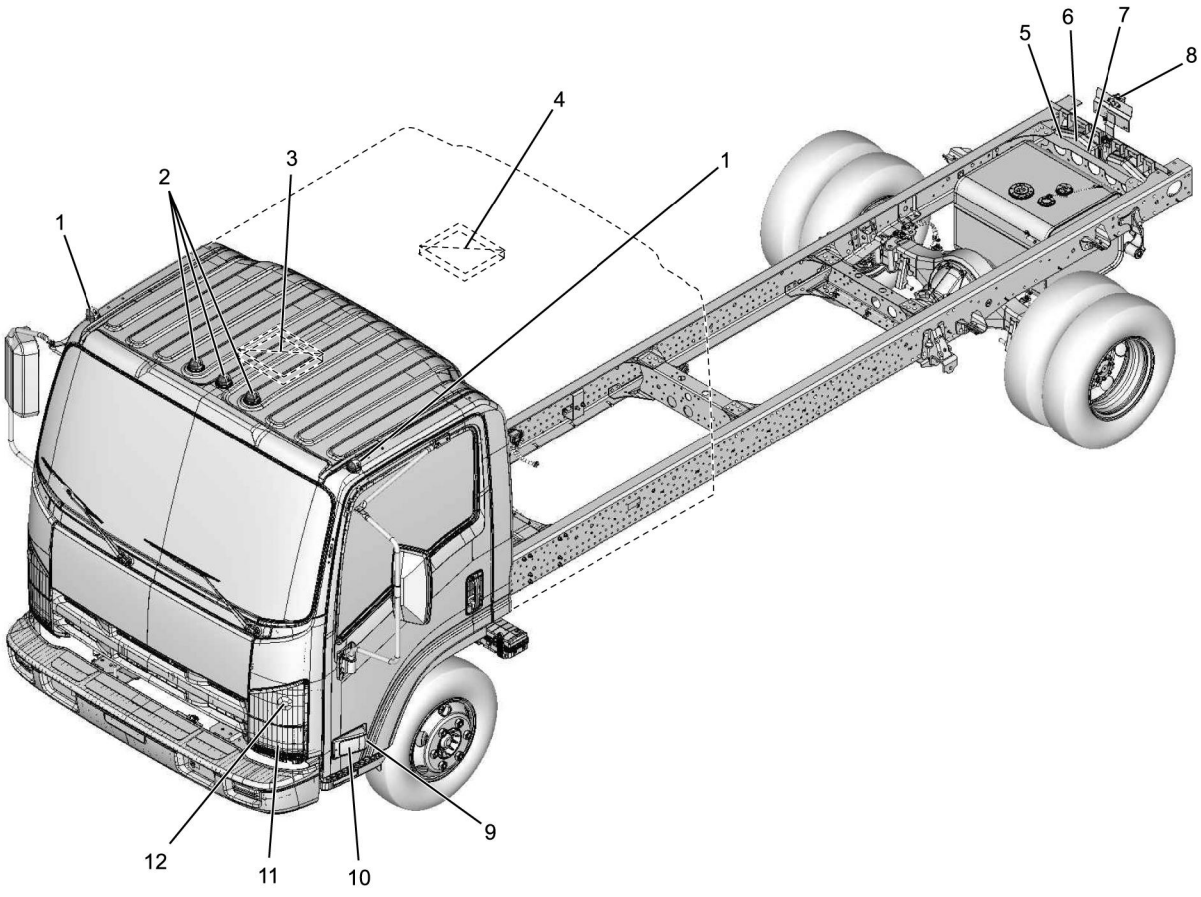
**** If you would like to have access to all of the electrical Service Information, please apply for a subscription from ACDelco at http://acdelcotechconnect.com/html/tss_tech_esi.jsp***

Cab and Chassis Electrical

Cab and Chassis Electrical

Specifications

Bulb Specifications



Note:

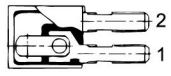
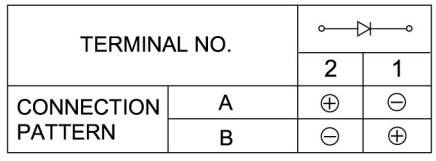
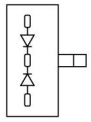
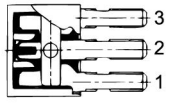
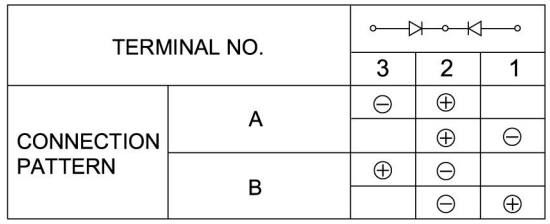
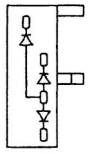
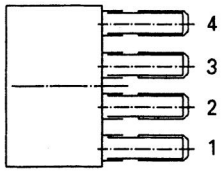
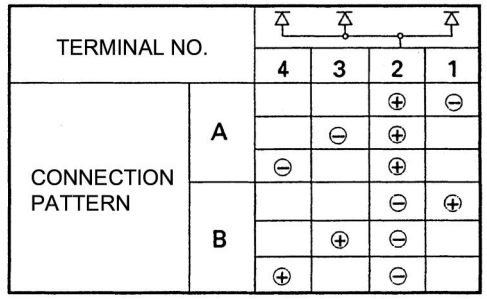
Do not grip the clearance lights and the identification lights to prevent damage or water leakage.

Light Name		Rated Power	Number of Bulb	Lens Color
Headlight	Rectangular Type	60W/55W	2	Clear
Parking Light		5W	2	Clear
Front Turn Signal Light		27W	2	Clear
Cornering Light		27W	2	Clear
Side Turn Signal Light		5W	2	Clear
Side Maker Light		5W	2	Clear

Rear Combination Light	Brake Light, Taillight	27W/8W	2	Red
	Turn Signal Light	27W	2	Amber
	Backup Light	27W	2	Clear
License Plate Light		7.5W	1	Clear
Clearance Light		5W	2	Amber
Identification Light		5W	3	Amber
Dome Light		10W	1	White
Rear Dome Light		10W	1	White
Indicator/Warning lamp (In the Instrument Panel Cluster)	Engine Oil Pressure	LED	1	Red
	Brake Booster	LED	1	Red
	Charge	LED	1	Red
	High Beam	LED	1	Blue
	Turn Signal / Hazard Warning	LED	2	Green
	MIL	LED	1	Amber
	DRL	LED	1	Green
	ABS	LED	1	Amber
	Cruise Set	LED	1	Green
	SVS	LED	1	Amber
	Reduced Engine Power	LED	1	Amber
	A/T (P)	LED	1	Green
	A/T (R)	LED	1	Amber
	A/T (N)	LED	1	Green
	A/T (D6)	LED	1	Green
	A/T (D4)	LED	1	Green
	A/T (2)	LED	1	Green
	A/T (1)	LED	1	Green
Illumination and Indicator Lamp	Illumination Light for Instrument Panel (IP) Cluster	LED	5	N/A
	Hazard Warning Flasher Switch	LED	1	N/A
	Cab Interior Switch	1.2W	1	N/A
	A/C Switch	LED	1	N/A

	Cruise Main Switch	LED	1	N/A
	Miles Check Switch	LED	1	N/A
	Heater Bezel	1.1W	1	N/A
	Ashtray	1.4W	1	N/A
	Illumination Control Switch	39W	2	Blue/ Red
	Rear Window Lock Switch	LED	1	N/A

Diode Specifications and Configurations

MARK	CONSTRUCTION	CHECKING (THERE SHOULD BE CONTINUITY IN EITHER A OR B WHEN A CIRCUIT TESTER IS CONNECTED WITH DIODE TERMINAL.)
		
		
		

LNW780LF000601

Maximum Rating (Temp. = 25°C {77°F})

Items	Rating	Remarks
Peak Reverse Voltage	400V	—
Transient Peak Reverse Voltage	500V	—
Average Output Current	1.5A	Temp. = 40°C (104°F)
Working Ambient Temperature	-30°C – 80°C (-22°F – 176°F)	—
Storage Temperature	-40°C – 100°C (-40°F – 212°F)	—

Fuses

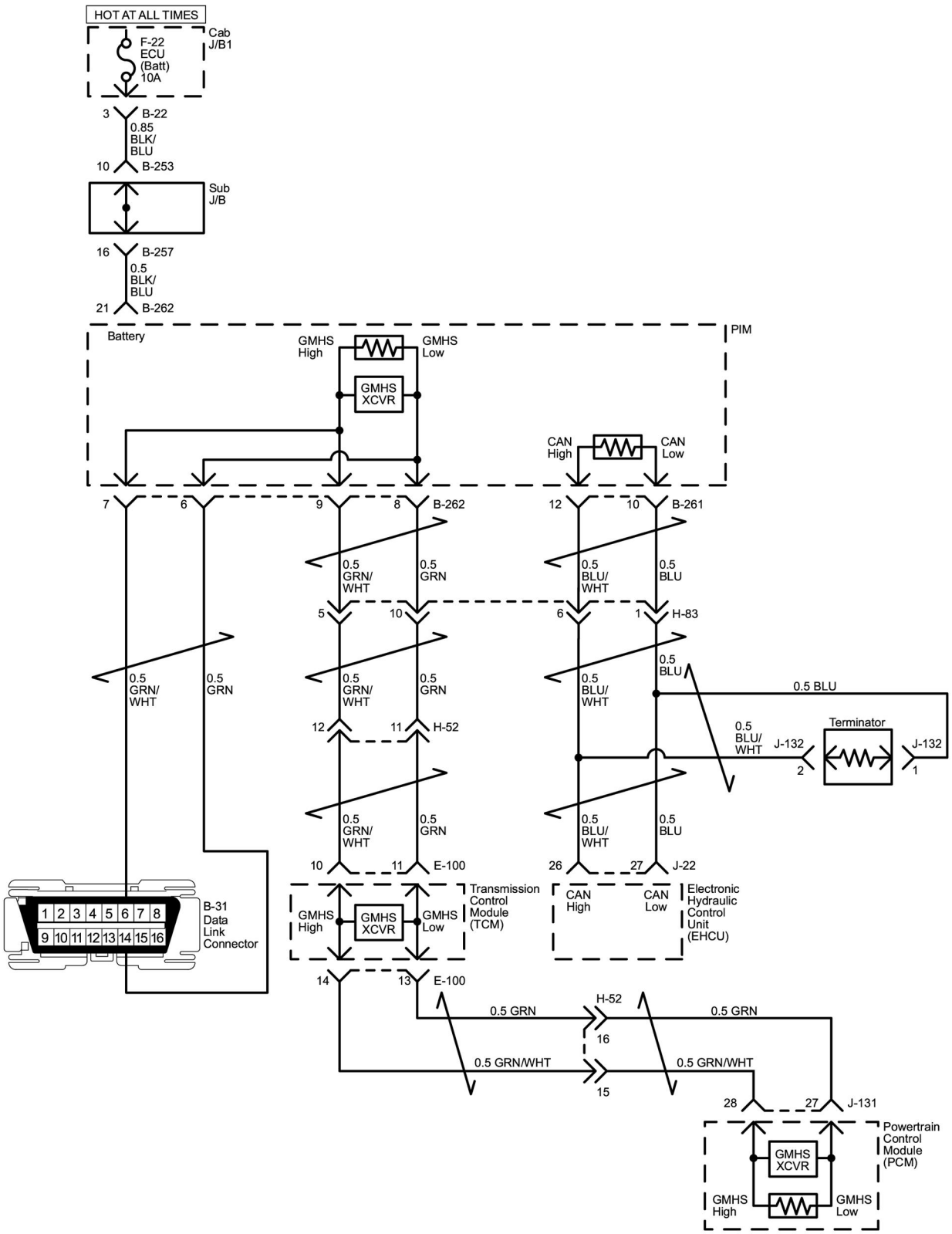
Reference Table of Fuse

Fuse No.	Capacity	Indication on Label	Main Parts(Load)
F-1	25A	RR P/WINDOW	Rear Power Window Switch RH, Rear Power Window Switch LH Rear Power Window Relay
F-2	—	—	—
F-3	10A	ROOM LAMP,AUDIO	Radio, Data Link Connector, Room Light
F-4	15A	DOOR LOCK	Door Lock Controller
F-5	15A	TRAILER BRAKE	Electric Trailer Brake Controller
F-6	25A	P/WINDOW	Front Power Window RH Switch, Front Power Window LH Switch Power Window Relay
F-7	10A	ABS	Electronic Hydraulic Control Unit (EHCU)
F-8	25A	WIPER	Wiper Main Relay, Wiper High Low Relay, Key On Relay, Front Wiper Motor, Front Washer Motor
F-9	10A	H/LAMP LO (LH)	Headlight LH, Headlight Low Relay, DRL Control Unit
F-10	10A	LMAPS (BATT)	DRL Relay, Headlight High Relay, Headlight Low Relay, Taillight Relay
F-11	10A	H/LAMP LO (RH)	Headlight RH, Headlight Low Relay, DRL Control Unit
F-12	10A	BRAKE LAMPS	Stoplight Relay
F-13	10A	STARTER	PIM.B, P/N Start Relay
F-14	10A	H/LAMP HI (LH)	Headlight LH, Instrument Panel (IP) Cluster, Headlight High Relay
F-15	10A	H/LAMP HI (RH)	Headlight RH, Headlight High Relay
F-16	15A	MIRROR HEATER	Mirror Heater Switch, Blower Relay, Power Window Relay
F-17	10A	IGNITION2	Rear Window Lock Switch
F-18	10A	IGNITION1	Intermittent Relay, Vacuum Pump Relay, Shift Lever Switch
F-19	—	—	—
F-20	10A	ECM	Stoplight Switch, PIM.B, Cruise Main Switch, TCM Relay
F-21	10A	METER	Key On Relay, P/N Start Relay, Vacuum Pump Relay, Instrument Panel (IP) Cluster, Shift Lever Switch, Charge Relay, EHCU, Flasher Unit, DRL Relay
F-22	10A	ECU (BATT)	Miles Check Switch, TCM Relay, Instrument Panel (IP) Cluster, Powertrain Control Module, PIM.B
F-23	10A	MIRROR	—
F-24	15A	AUDIO, ACC	Radio, Cigarette Lighter Relay, Power Accessory Relay, PIM.A, PIM.B
F-25	15A	HORN	Horn Relay
F-26	15A	TURN, HAZARD	Flasher Unit

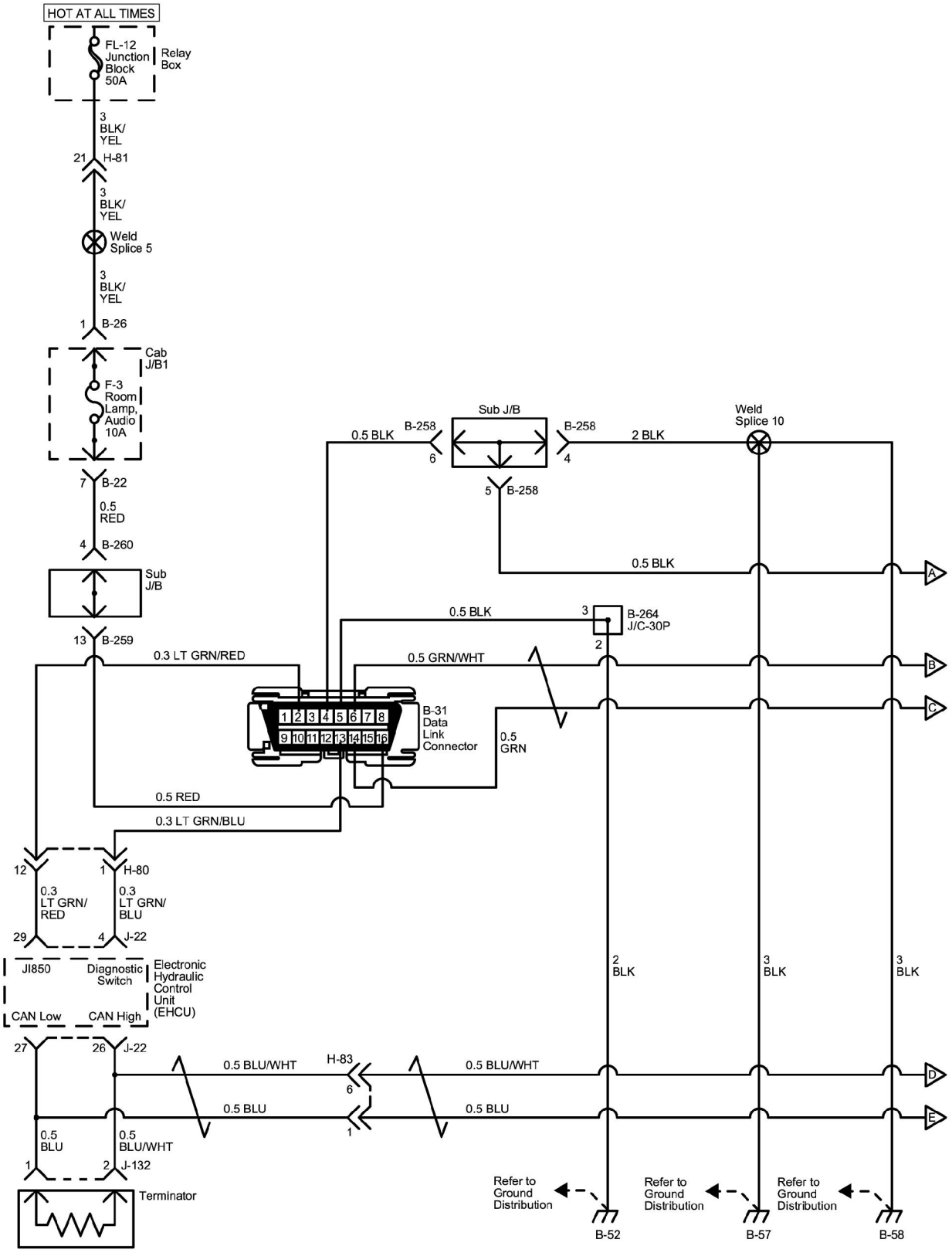
F-27	10A	TAIL LAMPS	Taillight Relay, Front Position Light RH, Front Position Light LH, Identification Light 1, Identification Light 2, Identification Light 3, Marker 1, Marker 2, Side Marker Light RH, Side Marker Light LH
F-28	10A	ILLUMINATIONS	Taillight Relay, Instrument Panel (IP) Cluster, Mirror Heater Switch, Blower Switch, Door Lock Switch, Cluise Main Switch, Rear Dome Light Switch, Hazard Switch, Miles Check Switch, Shift Lever Switch, Radio, Illumination Control Switch
F-29	10A	CORNERING LAMPS	Taillight Relay, DRL Relay
F-30	10A	AIR CONDITIONER	DEF Switch, Aircon Switch, AC Enable Relay, Magnetic Clutch Relay
F-31	20A	MARKER LAMP	Marker Light Relay
F-32	20A	TAIL MAIN	Taillight Relay
F-33	15A	PCM1	PCM Main Relay, Powertrain Control Module Ignition Coil 1, Ignition Coil 3, Ignition Coil 5, Ignition Coil 7, Injector 1, Injector 3, Injector 5, Injector 7
F-34	20A	PCM2	PCM Main Relay, Ignition Coil 2, Ignition Coil 4, Ignition Coil 6, Ignition Coil 8, Injector 2, Injector 4, Injector 6, Injector 8
F-35	20A	PCM3	PCM Main Relay, Front Heater Sensor LH, Front Heater Sensor RH, Rear Heater Sensor LH, Rear Heater Sensor RH, Canist Prg Solenoid
F-36	15A	POWER SOURCE	Rear Dome Light Relay, Front Manufacture Connector, Rear Manufacture Connector
F-37	20A	CONDENSER FAN	Condenser Fan Relay
F-38	10A	AIR CONDITIONER	Magnetic Clutch Relay
F-39 (D-1)	20A	CIGAR	Cigarette Lighter Relay, Cigarette Lighter
F-40 (D-2)	15A	ACCESSORIES SOCKET	Power Accessory Relay, Accessory Socket
F-41 (D-3)	20A	POWER SOURCE	Power Source

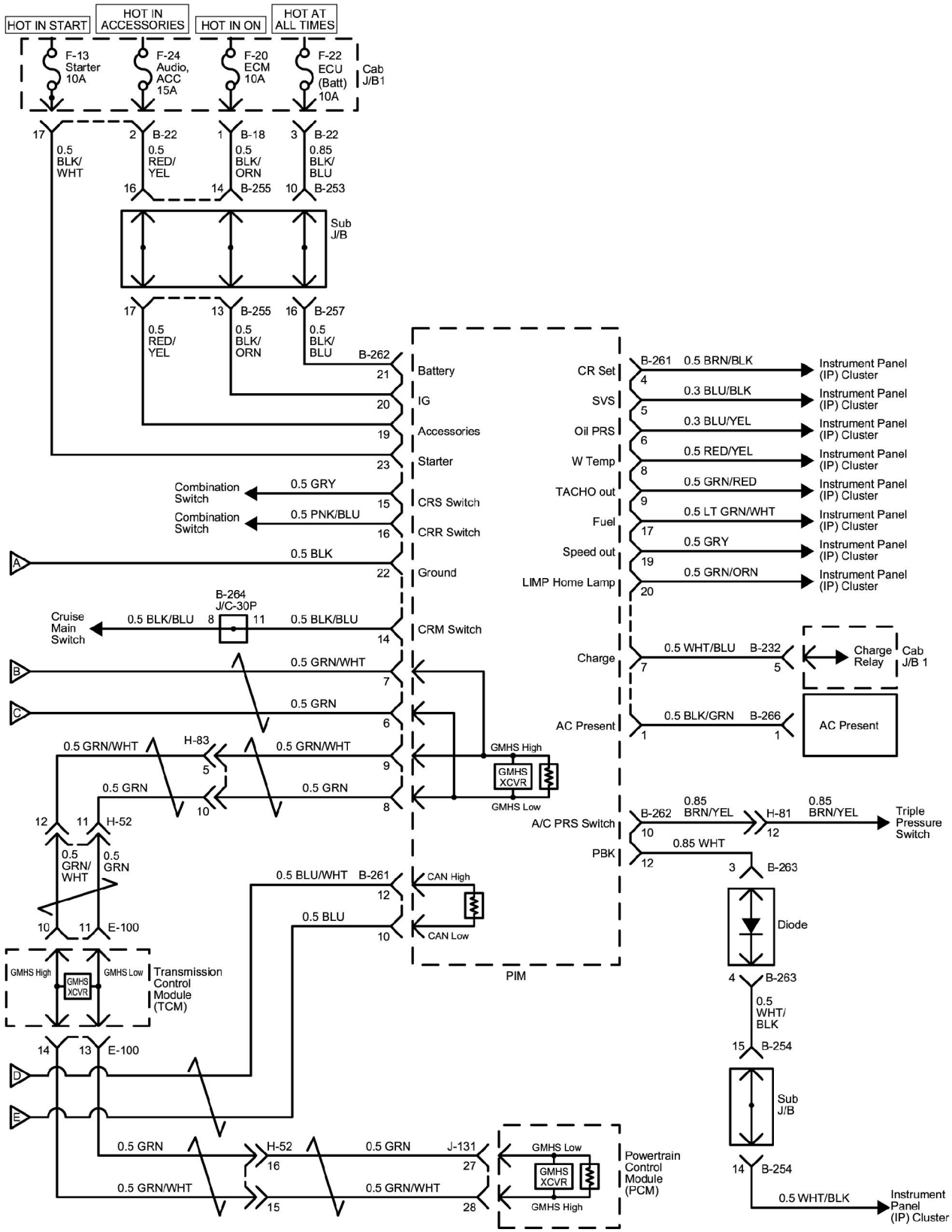
Schematic and Routing Diagrams

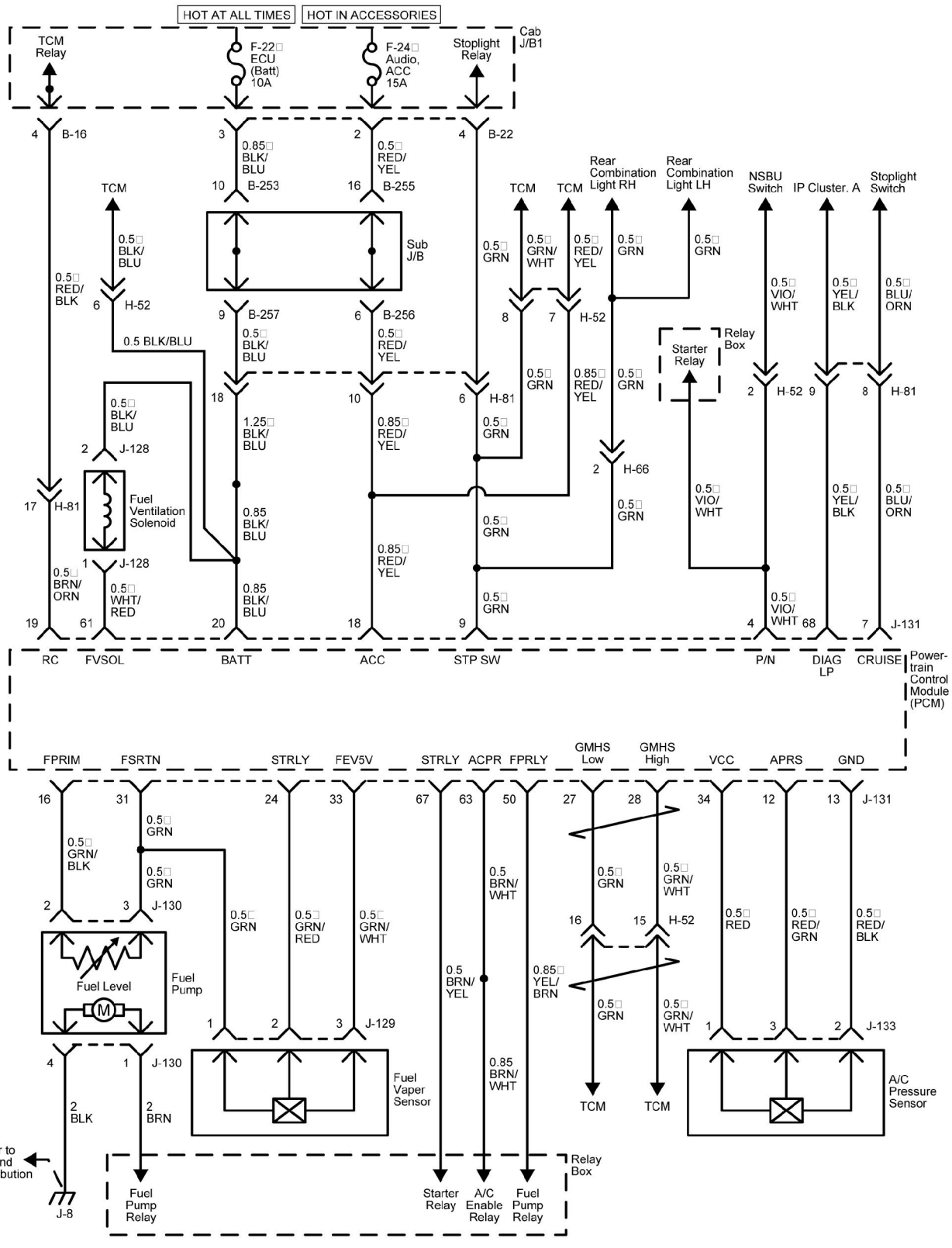
Controller Area Network (CAN) Schematics

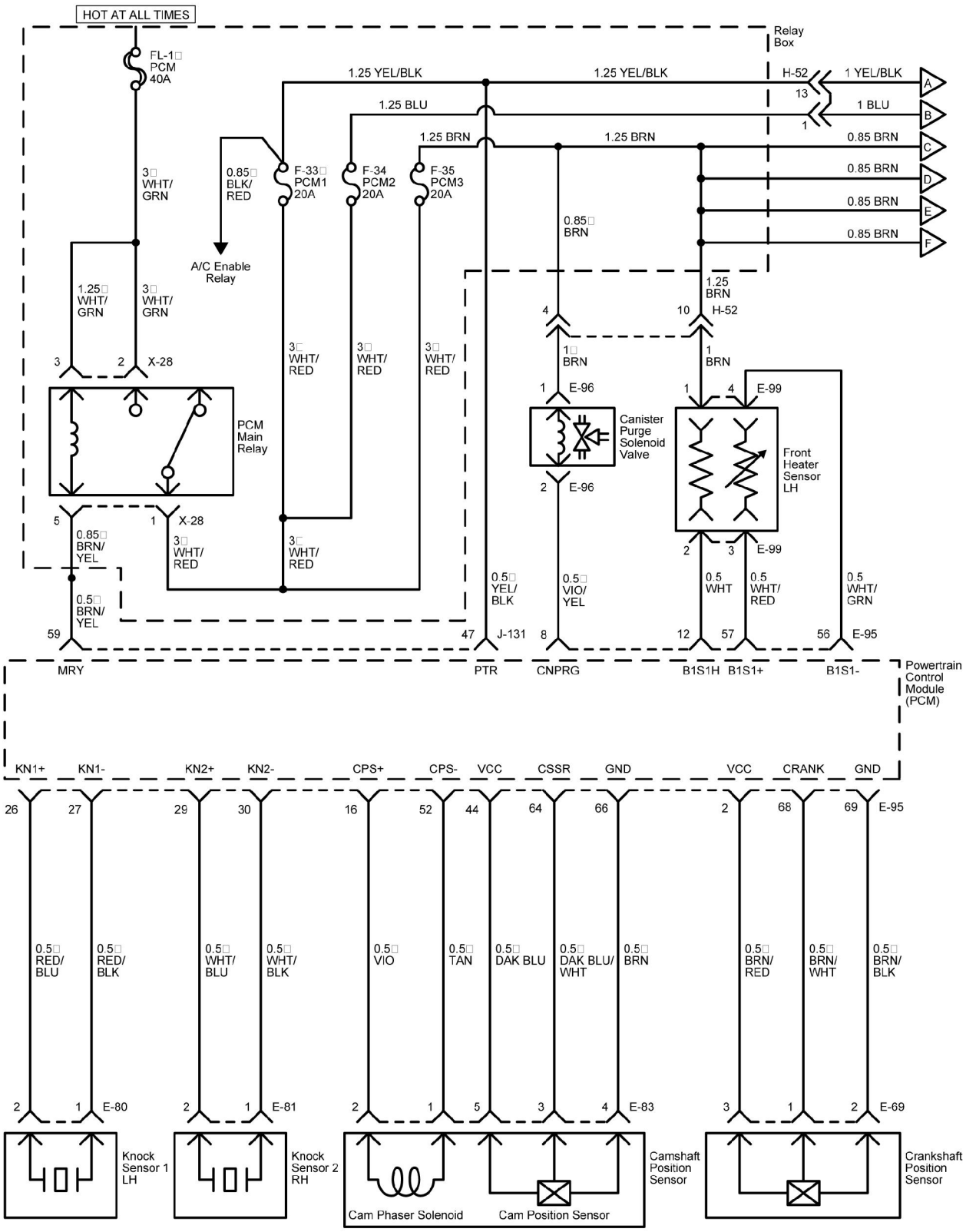


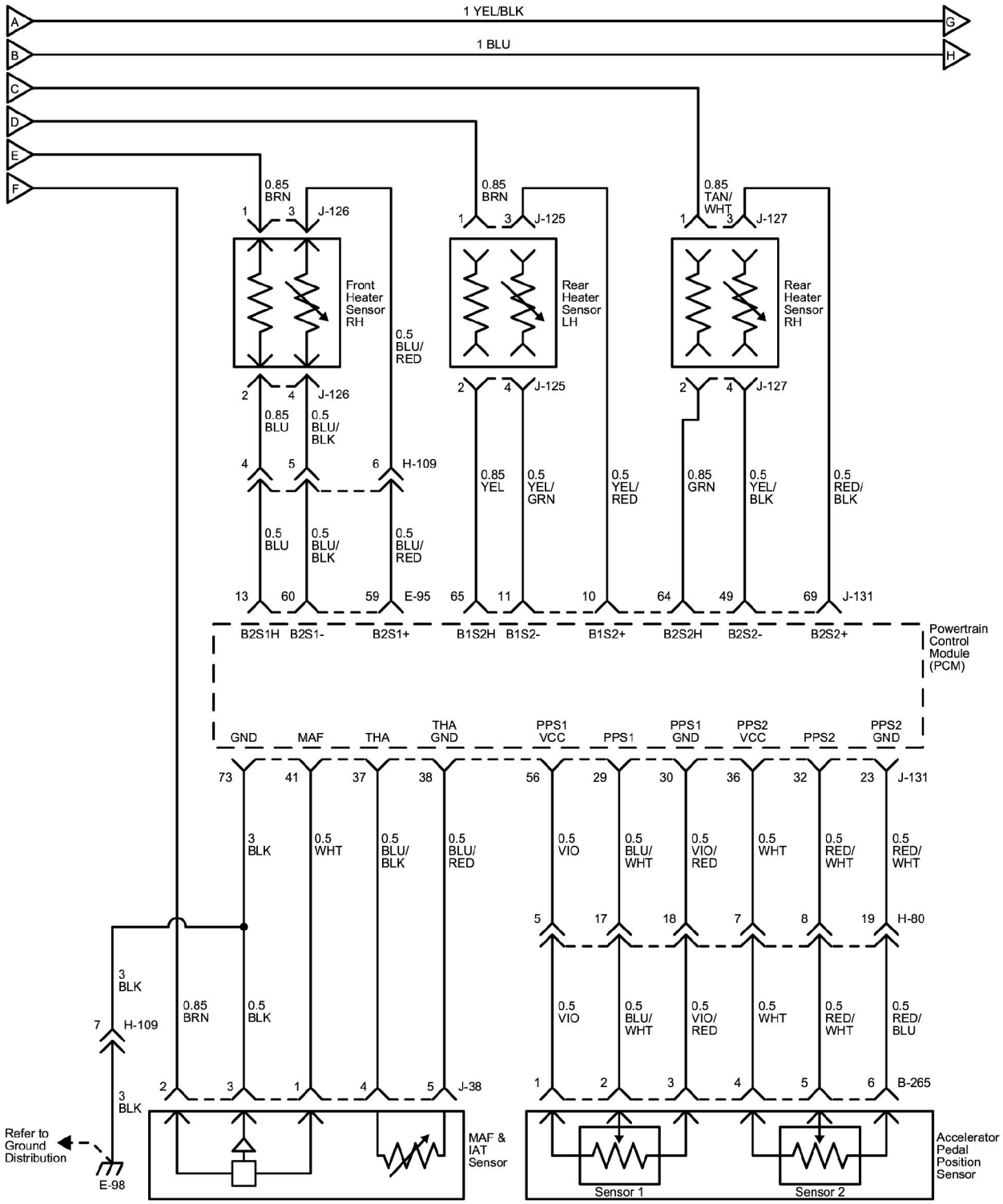
Data Link Connector Schematics

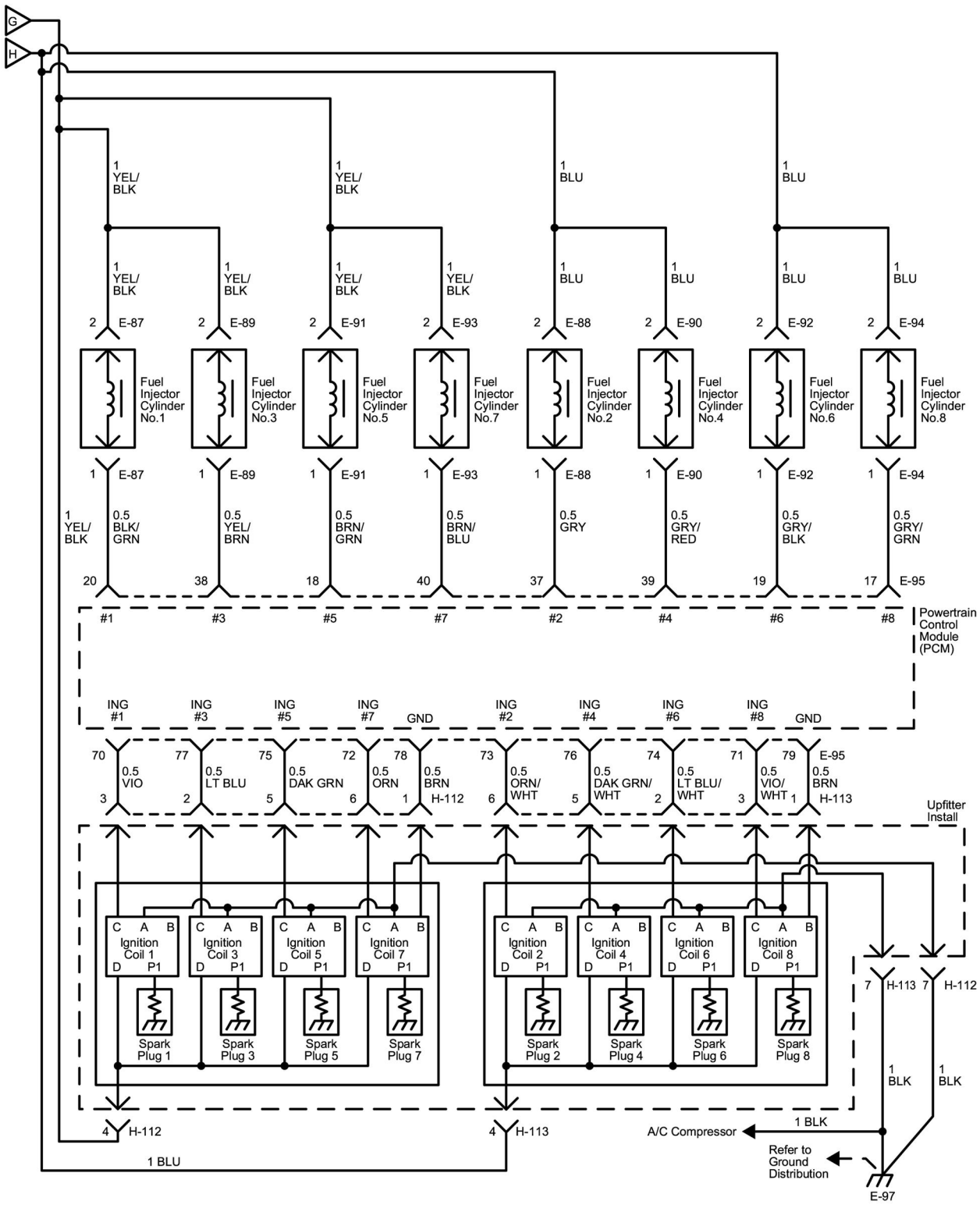


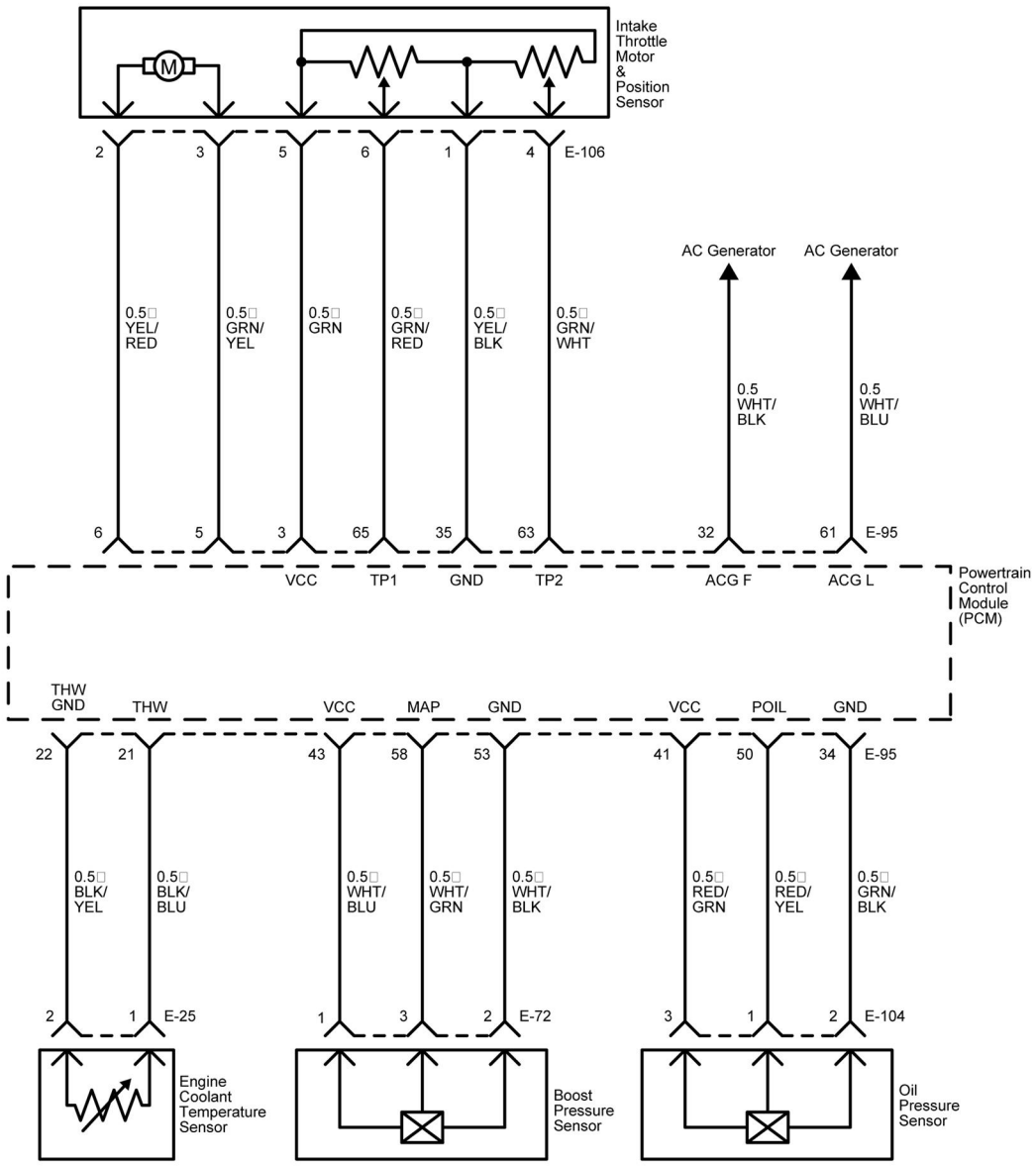

HOT IN START
HOT IN ACCESSORIES
HOT IN ON
HOT AT ALL TIMES
F-13 Starter 10A
F-24 Audio, ACC 15A
F-20 ECM 10A
F-22 ECU (Batt) 10A
Cab J/B1
17 0.5 BLK/ WHT
2 B-22 0.5 RED/ YEL
1 B-18 0.5 BLK/ ORN
3 B-22 0.85 BLK/ BLU
16
14 B-255
10 B-253
Sub J/B
17 0.5 RED/ YEL
13 B-255 0.5 BLK/ ORN
16 B-257 0.5 BLK/ BLU
B-262
21 Battery
20 IG
19 Accessories
23 Starter
Combination Switch
0.5 GRY
15 CRS Switch
Combination Switch
0.5 PNK/BLU
16 CRR Switch
A
0.5 BLK
22 Ground
B-264 J/C-30P
Cruise Main Switch
0.5 BLK/BLU 8 11 0.5 BLK/BLU
14 CRM Switch
B
0.5 GRN/WHT
7
C
0.5 GRN
6
0.5 GRN/WHT H-83 5 0.5 GRN/WHT
9 GMHS High
GMHS XCVR
0.5 GRN 10 0.5 GRN
8 GMHS Low
12 11 H-52
0.5 GRN/ WHT
0.5 GRN
0.5 BLU/WHT B-261
12 CAN High
0.5 BLU
10 CAN Low
10 11 E-100
GMHS High
GMHS XCVR
GMHS Low
Transmission Control Module (TCM)
14 13 E-100
D
E
PIM
CR Set
B-261 0.5 BRN/BLK
4 Instrument Panel (IP) Cluster
SVS
0.3 BLU/BLK
5 Instrument Panel (IP) Cluster
Oil PRS
0.3 BLU/YEL
6 Instrument Panel (IP) Cluster
W Temp
0.5 RED/YEL
8 Instrument Panel (IP) Cluster
TACHO out
0.5 GRN/RED
9 Instrument Panel (IP) Cluster
Fuel
0.5 LT GRN/WHT
17 Instrument Panel (IP) Cluster
Speed out
0.5 GRY
19 Instrument Panel (IP) Cluster
LIMP Home Lamp
0.5 GRN/ORN
20 Instrument Panel (IP) Cluster
Charge
0.5 WHT/BLU B-232
7 5
Charge Relay
Cab J/B 1
AC Present
0.5 BLK/GRN B-266
1 1
AC Present
A/C PRS Switch
B-262 0.85 BRN/YEL H-81 0.85 BRN/YEL
10 12
Triple Pressure Switch
PBK
0.85 WHT
12 3 B-263
Diode
4 B-263
0.5 WHT/ BLK
15 B-254
Sub J/B
14 B-254
0.5 WHT/BLK
Instrument Panel (IP) Cluster
0.5 GRN H-52 16 0.5 GRN J-131 27
0.5 GRN/WHT 15 0.5 GRN/WHT 28
GMHS Low
GMHS XCVR
GMHS High
Powertrain Control Module (PCM)


HOT AT ALL TIMES
HOT IN ACCESSORIES
Cab J/B1
TCM Relay
F-22 ECU (Batt) 10A
F-24 Audio, ACC 15A
Stoplight Relay
4 B-16
3 0.85 BLK/BLU 10 B-253
2 0.5 RED/YEL 16 B-255
4 B-22
TCM
0.5 BLK/BLU
0.5 RED/BLK
6 H-52
Sub J/B
9 B-257
6 B-256
0.5 BLK/BLU
0.5 RED/YEL
0.5 BLK/BLU
2 J-128
18
10
6 H-81
1.25 BLK/BLU
0.85 RED/YEL
0.5 GRN
Fuel Ventilation Solenoid
17 H-81
1 J-128
0.5 BRN/ORN
0.5 WHT/RED
0.85 BLK/BLU
0.85 RED/YEL
0.5 GRN
19
61
20
18
9
RC
FVSOL
BATT
ACC
STP SW
TCM
TCM
Rear Combination Light RH
Rear Combination Light LH
NSBU Switch
IP Cluster. A
Stoplight Switch
0.5 GRN
0.5 GRN/WHT
0.5 RED/YEL
0.5 GRN
0.5 GRN
0.5 VIO/WHT
0.5 YEL/BLK
0.5 BLU/ORN
8
7 H-52
2 H-66
0.5 GRN
0.85 RED/YEL
0.5 GRN
0.5 GRN
Starter Relay
Relay Box
2 H-52
9
8 H-81
0.5 VIO/WHT
0.5 YEL/BLK
0.5 BLU/ORN
0.5 VIO/WHT
4
68
7 J-131
P/N
DIAG LP
CRUISE
Power-train Control Module (PCM)
FPRIM
FSRTN
STRLY
FEV5V
STRLY
ACPR
FPRLY
GMHS Low
GMHS High
VCC
APRS
GND
16
31
24
33
67
63
50
27
28
34
12
13 J-131
0.5 GRN/BLK
0.5 GRN
0.5 GRN
0.5 GRN/RED
0.5 GRN/WHT
0.5 BRN/WHT
0.5 GRN
0.5 GRN/WHT
0.5 RED
0.5 RED/GRN
0.5 RED/BLK
2
3 J-130
16
15 H-52
0.5 BRN/YEL
0.85 YEL/BRN
0.5 GRN
0.5 GRN/WHT
1
2
3 J-129
1
3
2 J-133
Fuel Level
Fuel Pump
M
4
1 J-130
0.85 BRN/WHT
Fuel Vaper Sensor
A/C Pressure Sensor
2 BLK
2 BRN
TCM
TCM
Refer to Ground Distribution
J-8
Fuel Pump Relay
Starter Relay
A/C Enable Relay
Fuel Pump Relay
Relay Box

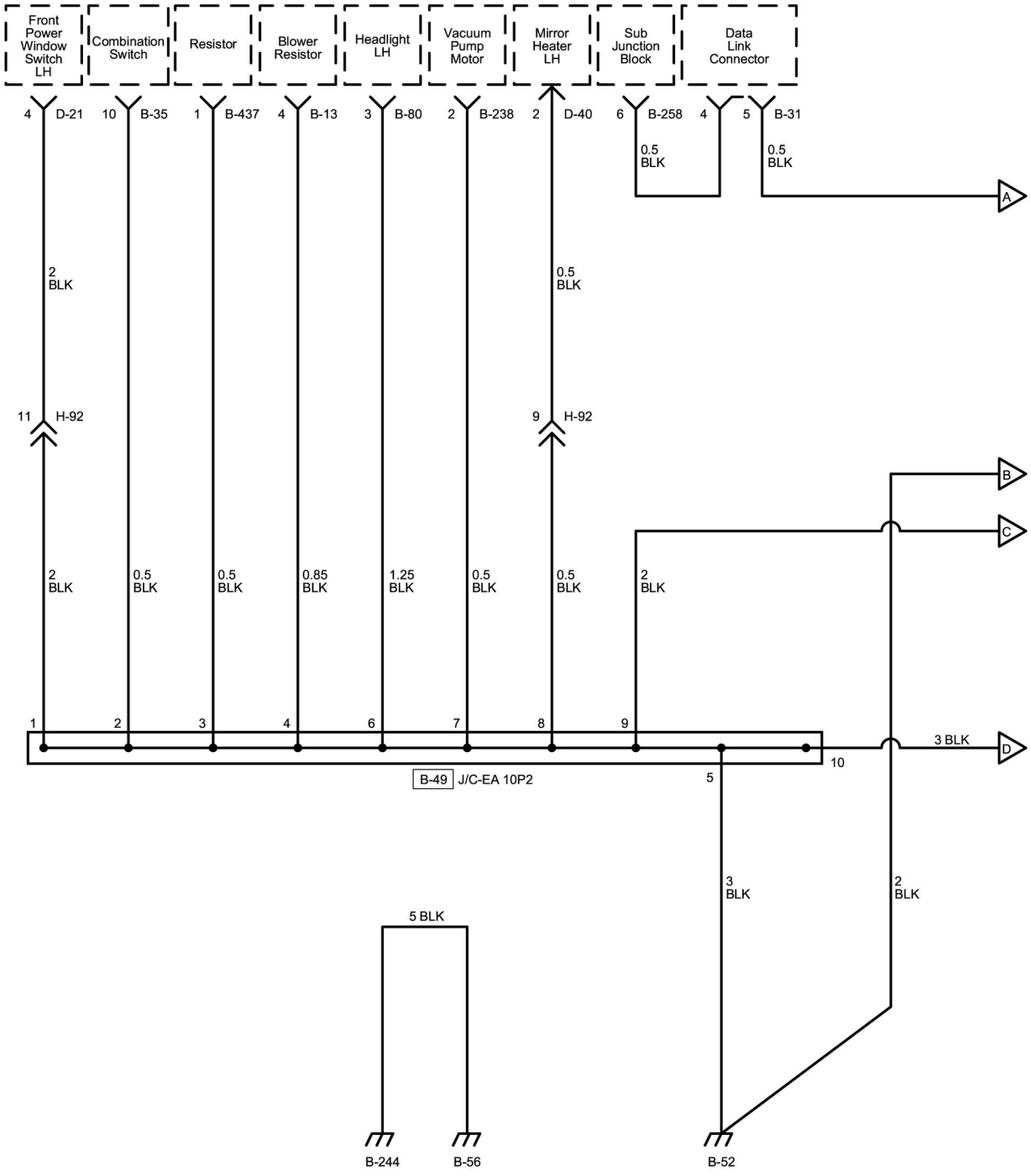

HOT AT ALL TIMES
Relay Box
FL-1 PCM 40A
1.25 YEL/BLK
1.25 BLU
1.25 BRN
H-52
13
1
1 YEL/BLK
1 BLU
0.85 BRN
0.85 BRN
0.85 BRN
0.85 BRN
A
B
C
D
E
F
3 WHT/ GRN
0.85 BLK/ RED
F-33 PCM1 20A
F-34 PCM2 20A
F-35 PCM3 20A
A/C Enable Relay
1.25 WHT/ GRN
3 WHT/ GRN
3
2
X-28
3 WHT/ RED
PCM Main Relay
5
1
X-28
0.85 BRN/ YEL
3 WHT/ RED
0.5 BRN/ YEL
59
4
10
H-52
1.25 BRN
1 BRN
1 BRN
1
E-96
2
E-96
Canister Purge Solenoid Valve
1
4
E-99
Front Heater Sensor LH
2
3
E-99
0.5 YEL/ BLK
0.5 VIO/ YEL
0.5 WHT
0.5 WHT/ RED
0.5 WHT/ GRN
47
J-131
8
12
57
56
E-95
MRY
PTR
CNPRG
B1S1H
B1S1+
B1S1-
Powertrain Control Module (PCM)
KN1+
KN1-
KN2+
KN2-
CPS+
CPS-
VCC
CSSR
GND
VCC
CRANK
GND
26
27
29
30
16
52
44
64
66
2
68
69
E-95
0.5 RED/ BLU
0.5 RED/ BLK
0.5 WHT/ BLU
0.5 WHT/ BLK
0.5 VIO
0.5 TAN
0.5 DAK BLU
0.5 DAK BLU/ WHT
0.5 BRN
0.5 BRN/ RED
0.5 BRN/ WHT
0.5 BRN/ BLK
2
1
E-80
2
1
E-81
2
1
5
3
4
E-83
3
1
2
E-69
Knock Sensor 1 LH
Knock Sensor 2 RH
Cam Phaser Solenoid
Cam Position Sensor
Camshaft Position Sensor
Crankshaft Position Sensor

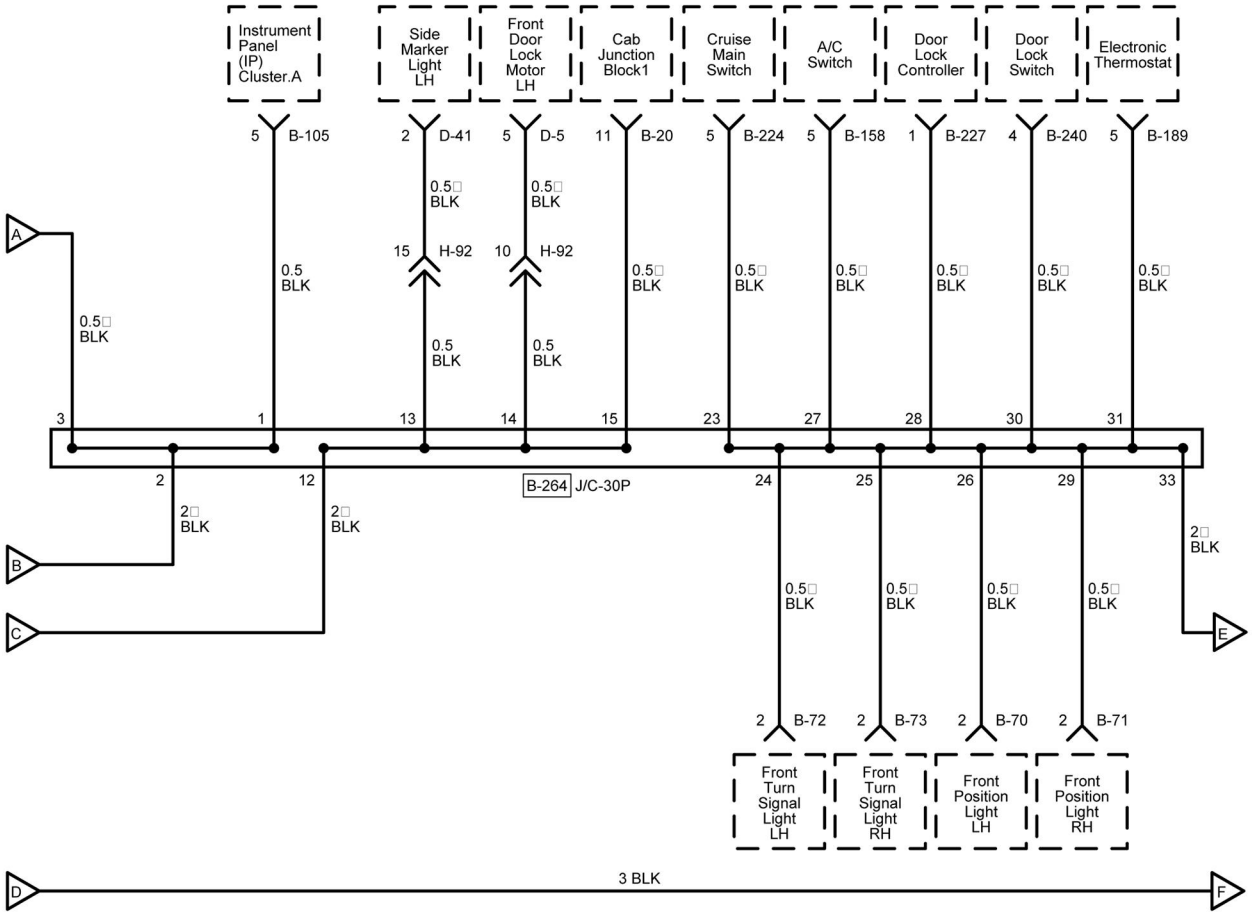

1 YEL/BLK
1 BLU
A
B
C
D
E
F
G
H
0.85 BRN
J-126
Front Heater Sensor RH
0.5 BLU/ RED
0.85 BLU
0.5 BLU/ BLK
H-109
0.5 BLU
0.5 BLU/ BLK
0.5 BLU/ RED
E-95
0.85 BRN
J-125
Rear Heater Sensor LH
0.85 YEL
0.5 YEL/ GRN
0.5 YEL/ RED
0.85 TAN/ WHT
J-127
Rear Heater Sensor RH
0.85 GRN
0.5 YEL/ BLK
0.5 RED/ BLK
J-131
B2S1H
B2S1-
B2S1+
B1S2H
B1S2-
B1S2+
B2S2H
B2S2-
B2S2+
Powertrain Control Module (PCM)
GND
MAF
THA
THA GND
PPS1 VCC
PPS1
PPS1 GND
PPS2 VCC
PPS2
PPS2 GND
3 BLK
0.5 WHT
0.5 BLU/ BLK
0.5 BLU/ RED
0.5 VIO
0.5 BLU/ WHT
0.5 VIO/ RED
0.5 WHT
0.5 RED/ WHT
0.5 RED/ WHT
H-80
0.85 BRN
0.5 BLK
0.5 VIO
0.5 BLU/ WHT
0.5 VIO/ RED
0.5 WHT
0.5 RED/ WHT
0.5 RED/ BLU
B-265
Refer to Ground Distribution
E-98
MAF & IAT Sensor
Sensor 1
Sensor 2
Accelerator Pedal Position Sensor

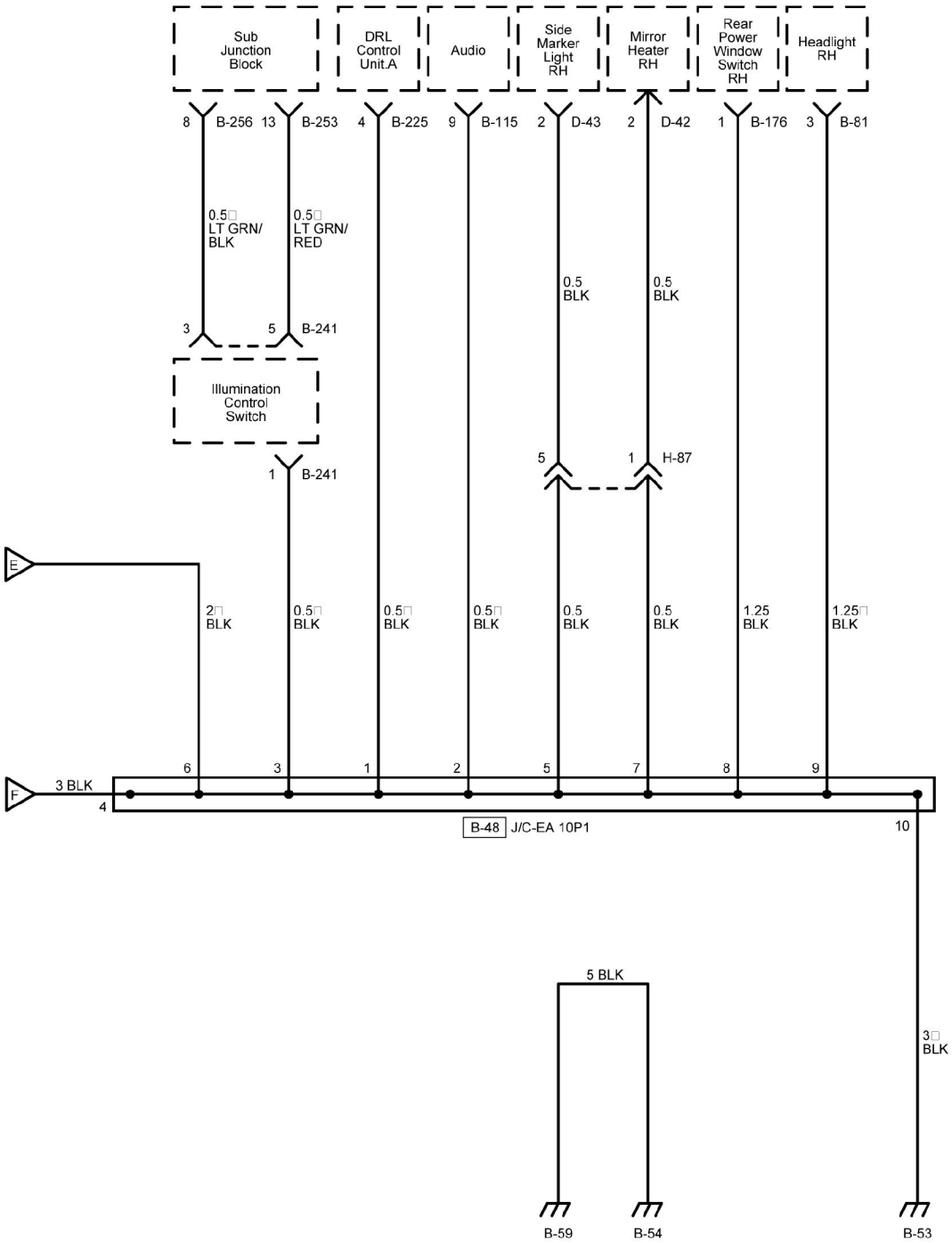

G
H
1 YEL/ BLK
1 BLU
2 E-87
2 E-89
2 E-91
2 E-93
2 E-88
2 E-90
2 E-92
2 E-94
Fuel Injector Cylinder No.1
Fuel Injector Cylinder No.3
Fuel Injector Cylinder No.5
Fuel Injector Cylinder No.7
Fuel Injector Cylinder No.2
Fuel Injector Cylinder No.4
Fuel Injector Cylinder No.6
Fuel Injector Cylinder No.8
1 E-87
1 E-89
1 E-91
1 E-93
1 E-88
1 E-90
1 E-92
1 E-94
1 YEL/ BLK
0.5 BLK/ GRN
0.5 YEL/ BRN
0.5 BRN/ GRN
0.5 BRN/ BLU
0.5 GRY
0.5 GRY/ RED
0.5 GRY/ BLK
0.5 GRY/ GRN
20
38
18
40
37
39
19
17
E-95
#1
#3
#5
#7
#2
#4
#6
#8
Powertrain Control Module (PCM)
ING #1
ING #3
ING #5
ING #7
GND
ING #2
ING #4
ING #6
ING #8
GND
70
77
75
72
78
73
76
74
71
79
E-95
0.5 VIO
0.5 LT BLU
0.5 DAK GRN
0.5 ORN
0.5 BRN
0.5 ORN/ WHT
0.5 DAK GRN/ WHT
0.5 LT BLU/ WHT
0.5 VIO/ WHT
0.5 BRN
3
2
5
6
1
H-112
6
5
2
3
1
H-113
Upfitter Install
C A B
D P1
Ignition Coil 1
Ignition Coil 3
Ignition Coil 5
Ignition Coil 7
Ignition Coil 2
Ignition Coil 4
Ignition Coil 6
Ignition Coil 8
Spark Plug 1
Spark Plug 3
Spark Plug 5
Spark Plug 7
Spark Plug 2
Spark Plug 4
Spark Plug 6
Spark Plug 8
7 H-113
7 H-112
1 BLK
1 BLK
4 H-112
4 H-113
1 BLU
A/C Compressor
1 BLK
Refer to Ground Distribution
E-97

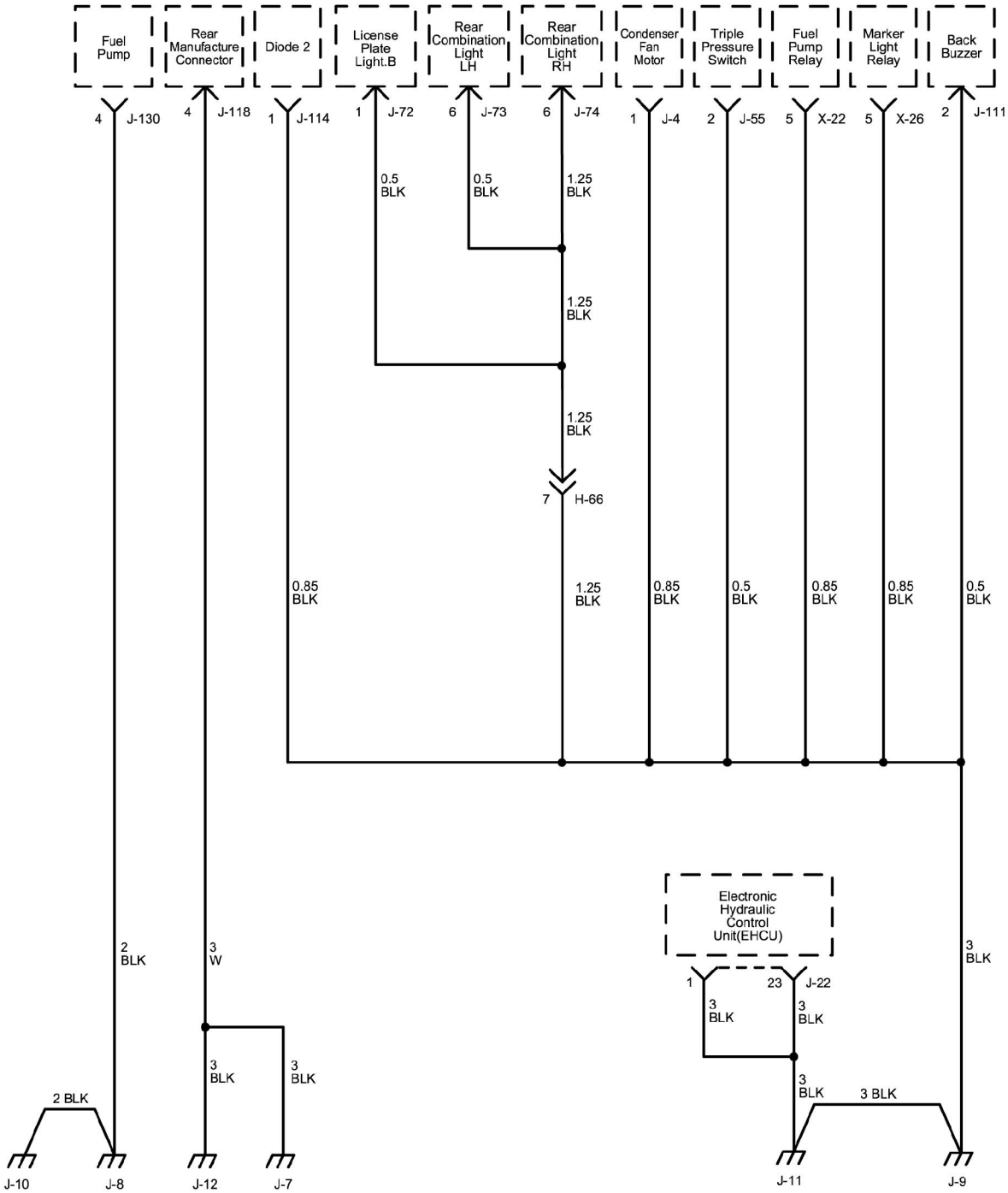

Intake Throttle Motor & Position Sensor
2
3
5
6
1
4
E-106
0.5 YEL/ RED
0.5 GRN/ YEL
0.5 GRN
0.5 GRN/ RED
0.5 YEL/ BLK
0.5 GRN/ WHT
AC Generator
AC Generator
0.5 WHT/ BLK
0.5 WHT/ BLU
6
5
3
65
35
63
32
61
E-95
VCC
TP1
GND
TP2
ACG F
ACG L
Powertrain Control Module (PCM)
THW GND
THW
VCC
MAP
GND
VCC
POIL
GND
22
21
43
58
53
41
50
34
E-95
0.5 BLK/ YEL
0.5 BLK/ BLU
0.5 WHT/ BLU
0.5 WHT/ GRN
0.5 WHT/ BLK
0.5 RED/ GRN
0.5 RED/ YEL
0.5 GRN/ BLK
2
1
E-25
1
3
2
E-72
3
1
2
E-104
Engine Coolant Temperature Sensor
Boost Pressure Sensor
Oil Pressure Sensor

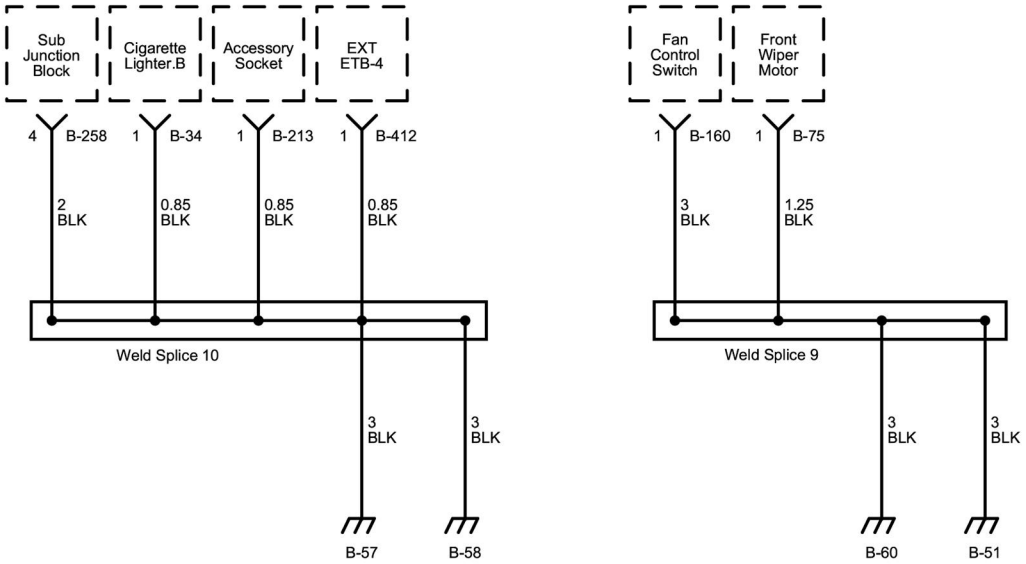
Ground Distribution Schematics

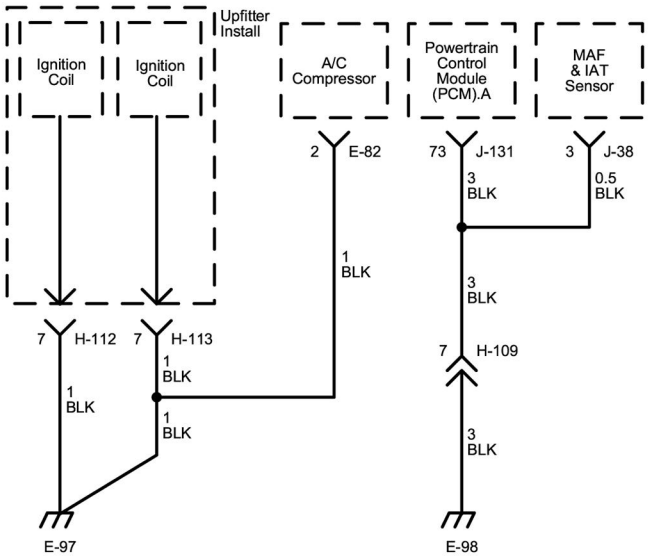



Instrument Panel (IP) Cluster.A
Side Marker Light LH
Front Door Lock Motor LH
Cab Junction Block1
Cruise Main Switch
A/C Switch
Door Lock Controller
Door Lock Switch
Electronic Thermostat
5 B-105
2 D-41
5 D-5
11 B-20
5 B-224
5 B-158
1 B-227
4 B-240
5 B-189
0.5□ BLK
15 H-92
10 H-92
A
B
C
D
E
F
3
1
13
14
15
23
27
28
30
31
2
12
24
25
26
29
33
B-264 J/C-30P
2 B-72
2 B-73
2 B-70
2 B-71
Front Turn Signal Light LH
Front Turn Signal Light RH
Front Position Light LH
Front Position Light RH
3 BLK

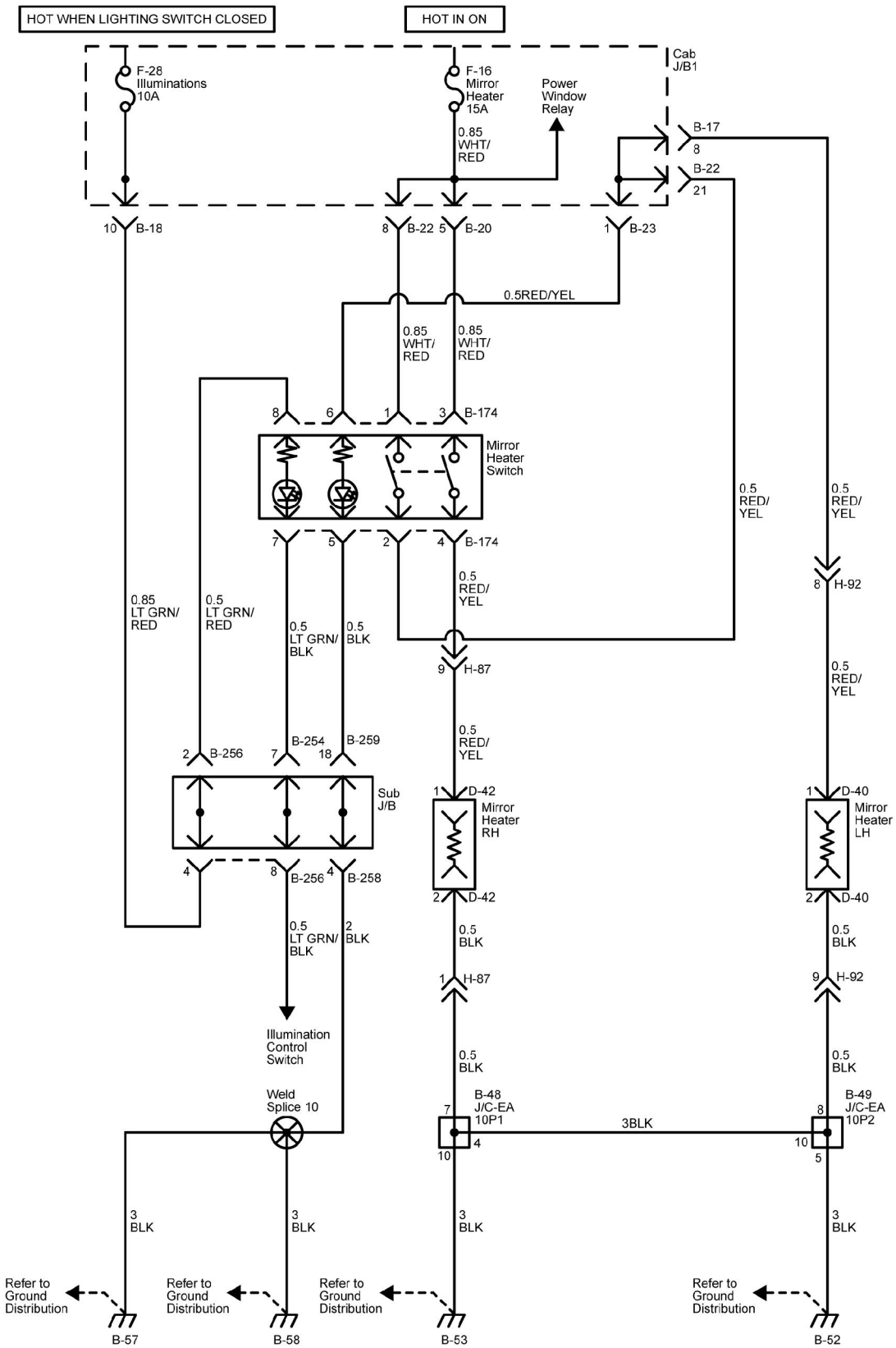

Sub Junction Block
DRL Control Unit.A
Audio
Side Marker Light RH
Mirror Heater RH
Rear Power Window Switch RH
Headlight RH
8 B-256 13 B-253 4 B-225 9 B-115 2 D-43 2 D-42 1 B-176 3 B-81
0.5 LT GRN/ BLK
0.5 LT GRN/ RED
0.5 BLK
0.5 BLK
3 5 B-241
Illumination Control Switch
1 B-241
5 1 H-87
E
2 BLK
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
1.25 BLK
1.25 BLK
6 3 1 2 5 7 8 9
F
3 BLK
4
B-48 J/C-EA 10P1
10
5 BLK
3 BLK
B-59
B-54
B-53


Fuel Pump
Rear Manufacture Connector
Diode 2
License Plate Light.B
Rear Combination Light LH
Rear Combination Light RH
Condenser Fan Motor
Triple Pressure Switch
Fuel Pump Relay
Marker Light Relay
Back Buzzer
4 J-130
4 J-118
1 J-114
1 J-72
6 J-73
6 J-74
1 J-4
2 J-55
5 X-22
5 X-26
2 J-111
0.5 BLK
0.5 BLK
1.25 BLK
1.25 BLK
1.25 BLK
7 H-66
0.85 BLK
1.25 BLK
0.85 BLK
0.5 BLK
0.85 BLK
0.85 BLK
0.5 BLK
2 BLK
3 W
3 BLK
3 BLK
2 BLK
J-10
J-8
J-12
J-7
Electronic Hydraulic Control Unit(EHCU)
1
23
J-22
3 BLK
3 BLK
3 BLK
3 BLK
3 BLK
J-11
J-9

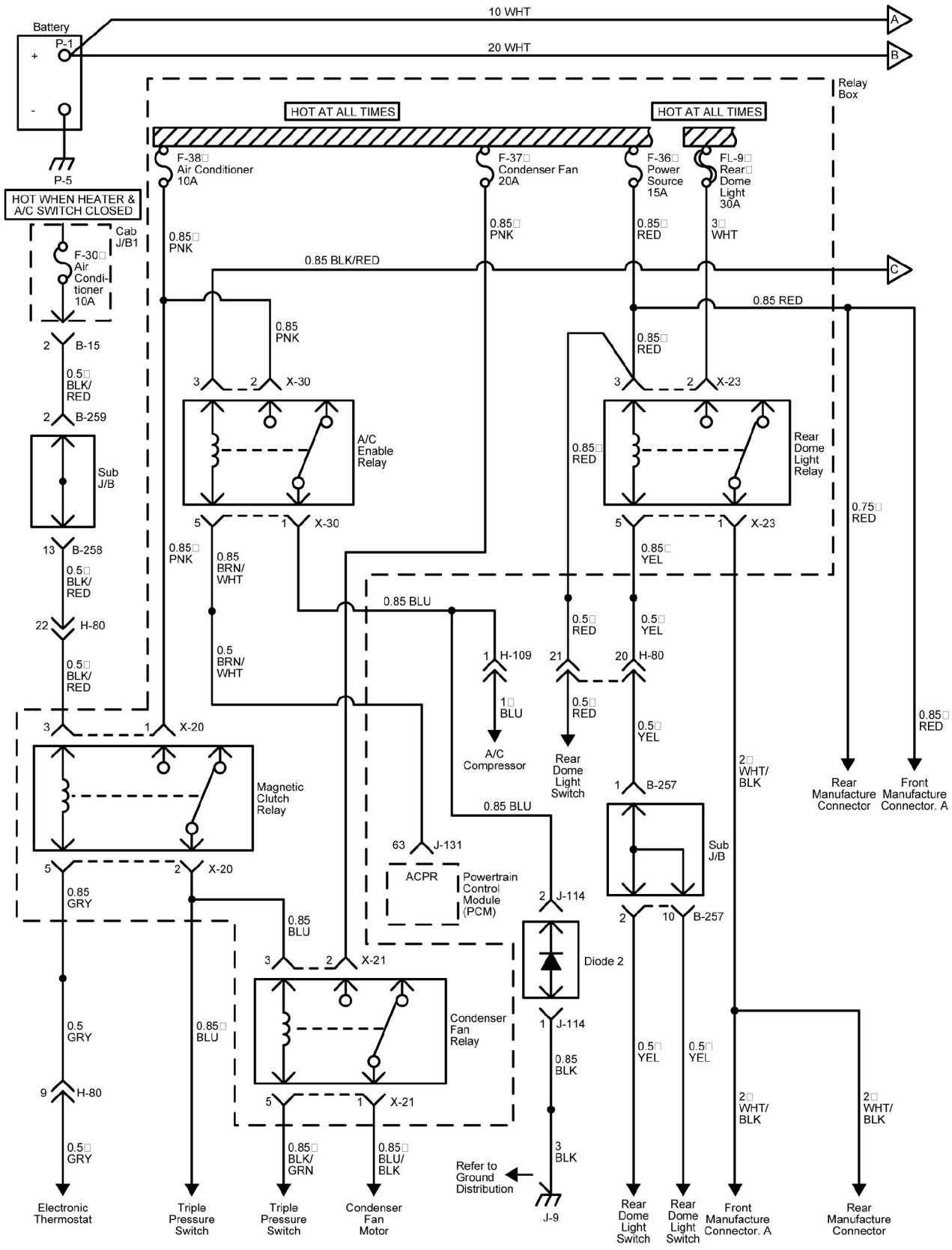

Sub Junction Block
Cigarette Lighter.B
Accessory Socket
EXT ETB-4
4 B-258
1 B-34
1 B-213
1 B-412
2 BLK
0.85 BLK
0.85 BLK
0.85 BLK
Weld Splice 10
3 BLK
3 BLK
B-57
B-58
Fan Control Switch
Front Wiper Motor
1 B-160
1 B-75
3 BLK
1.25 BLK
Weld Splice 9
3 BLK
3 BLK
B-60
B-51

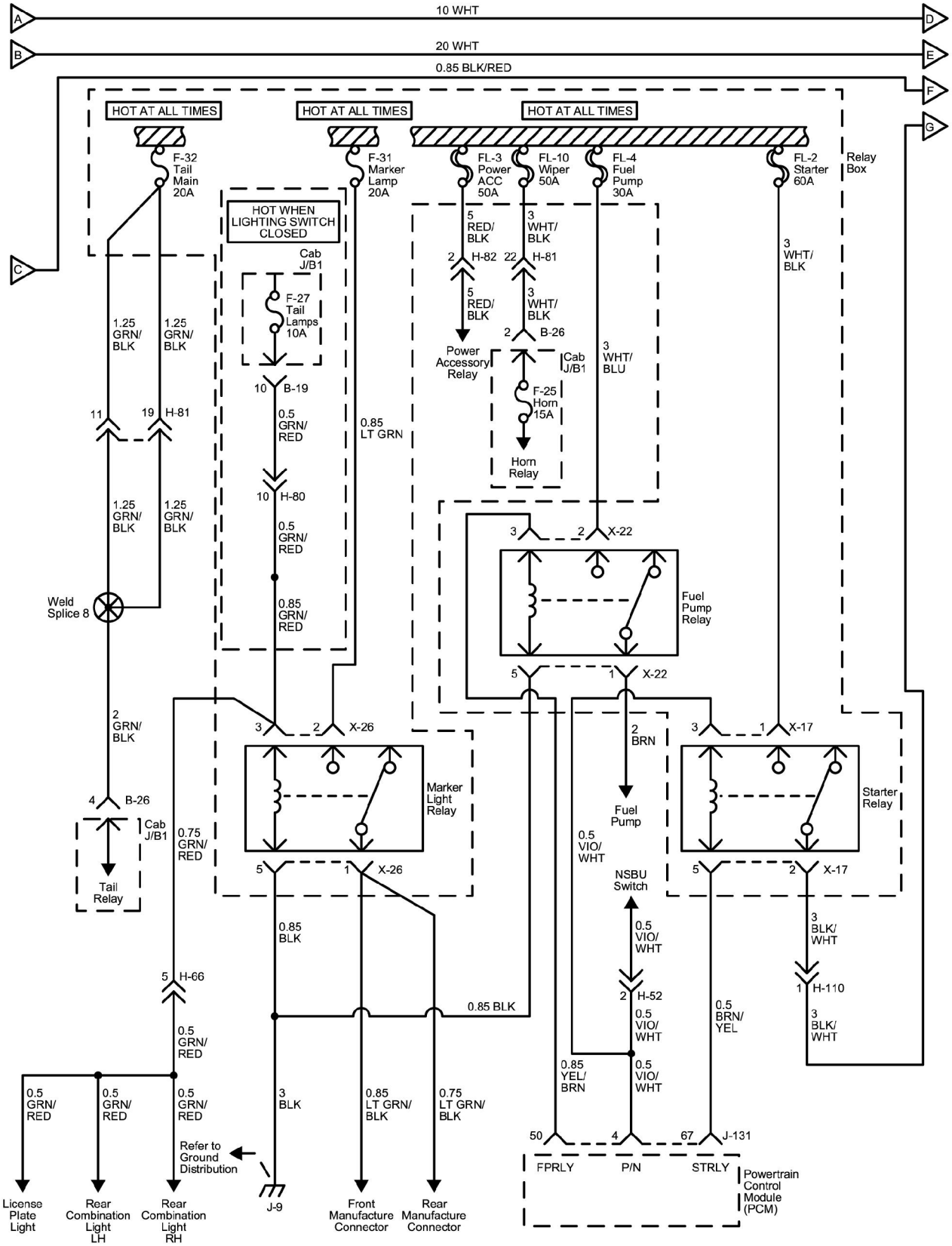

Upfitter Install
Ignition Coil
Ignition Coil
A/C Compressor
Powertrain Control Module (PCM).A
MAF & IAT Sensor
2 E-82
73 J-131
3 J-38
3 BLK
0.5 BLK
1 BLK
3 BLK
7 H-112
7 H-113
7 H-109
1 BLK
1 BLK
1 BLK
3 BLK
E-97
E-98

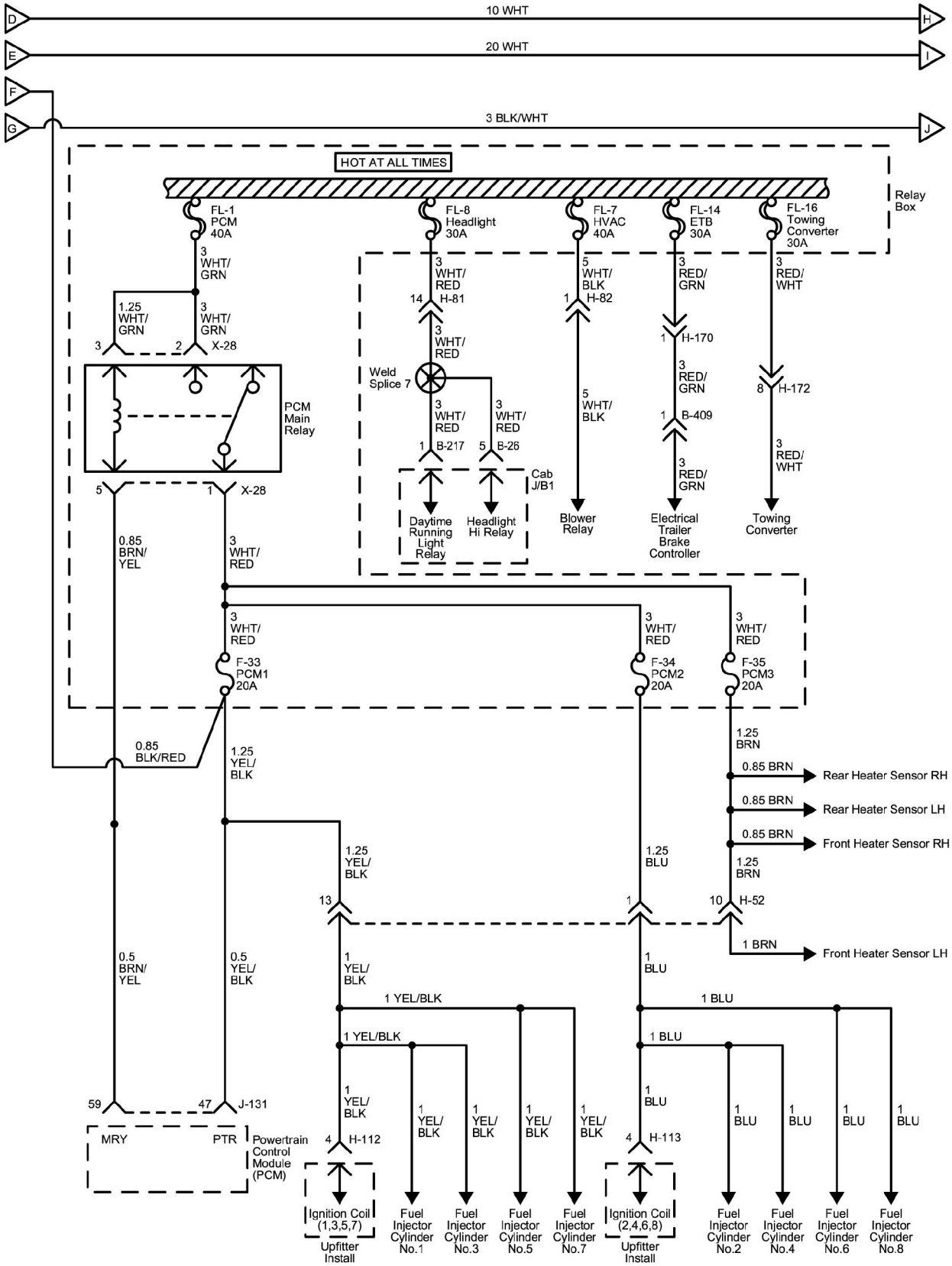
Heated Mirror Schematics

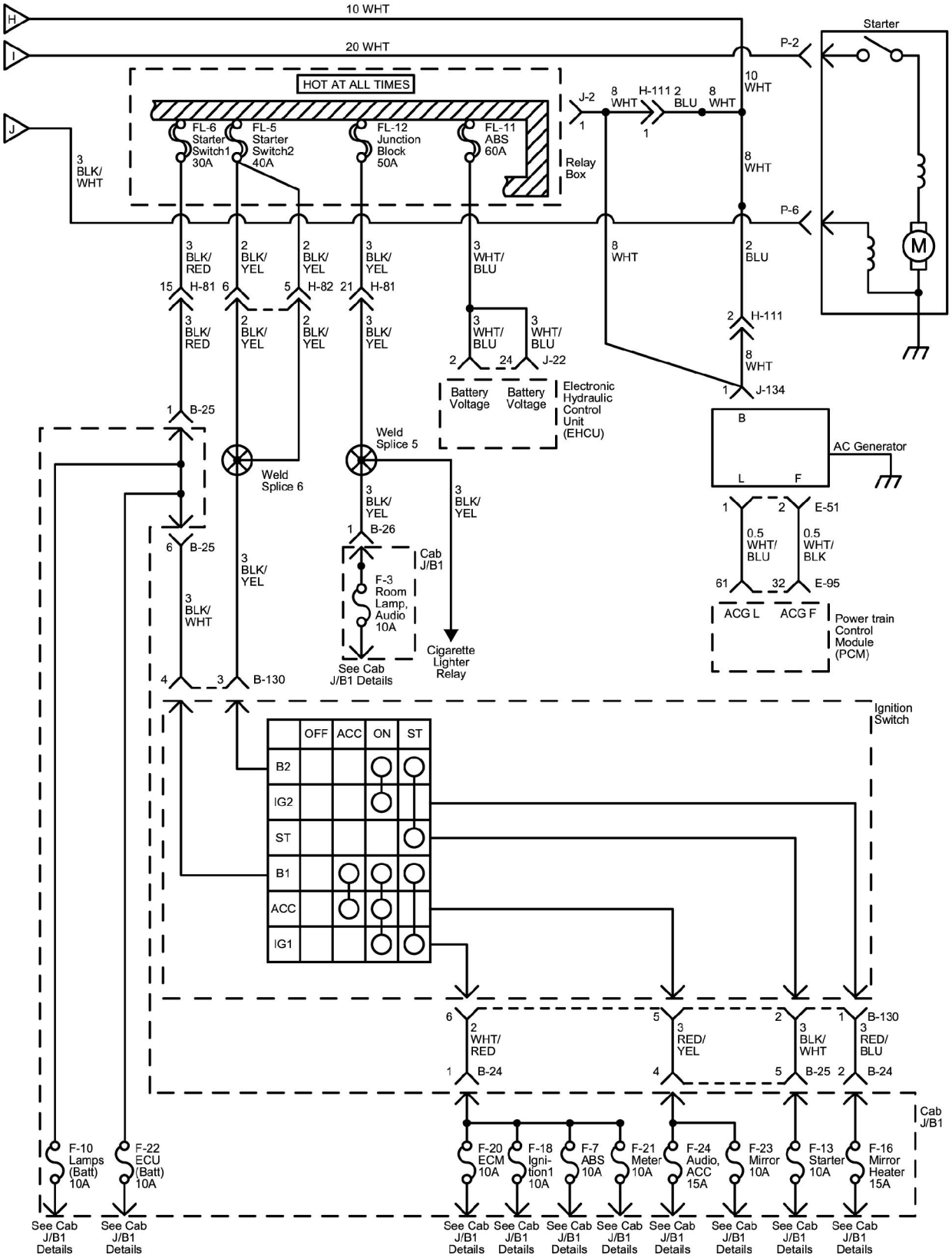


Power Distribution Schematics (Chassis)

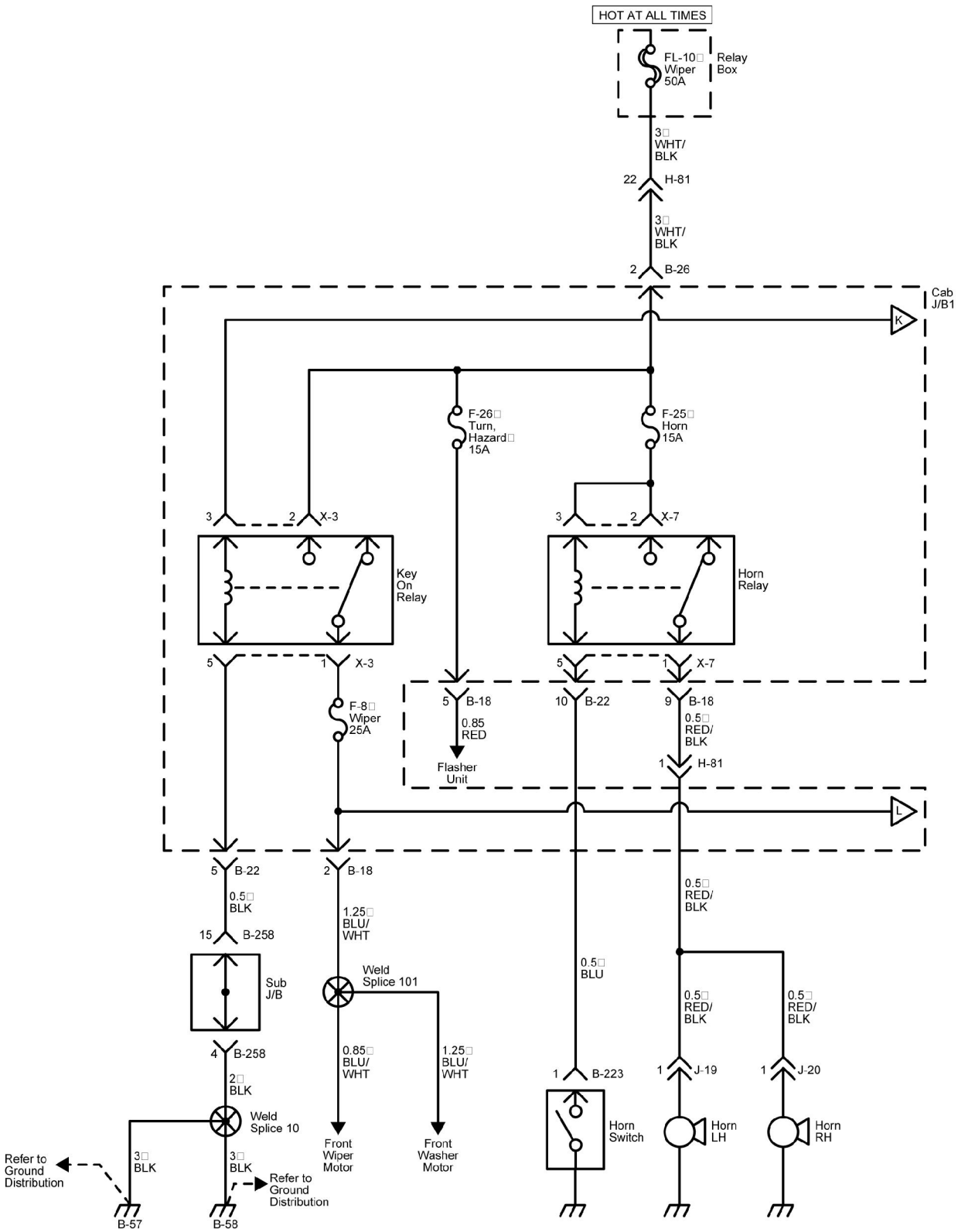


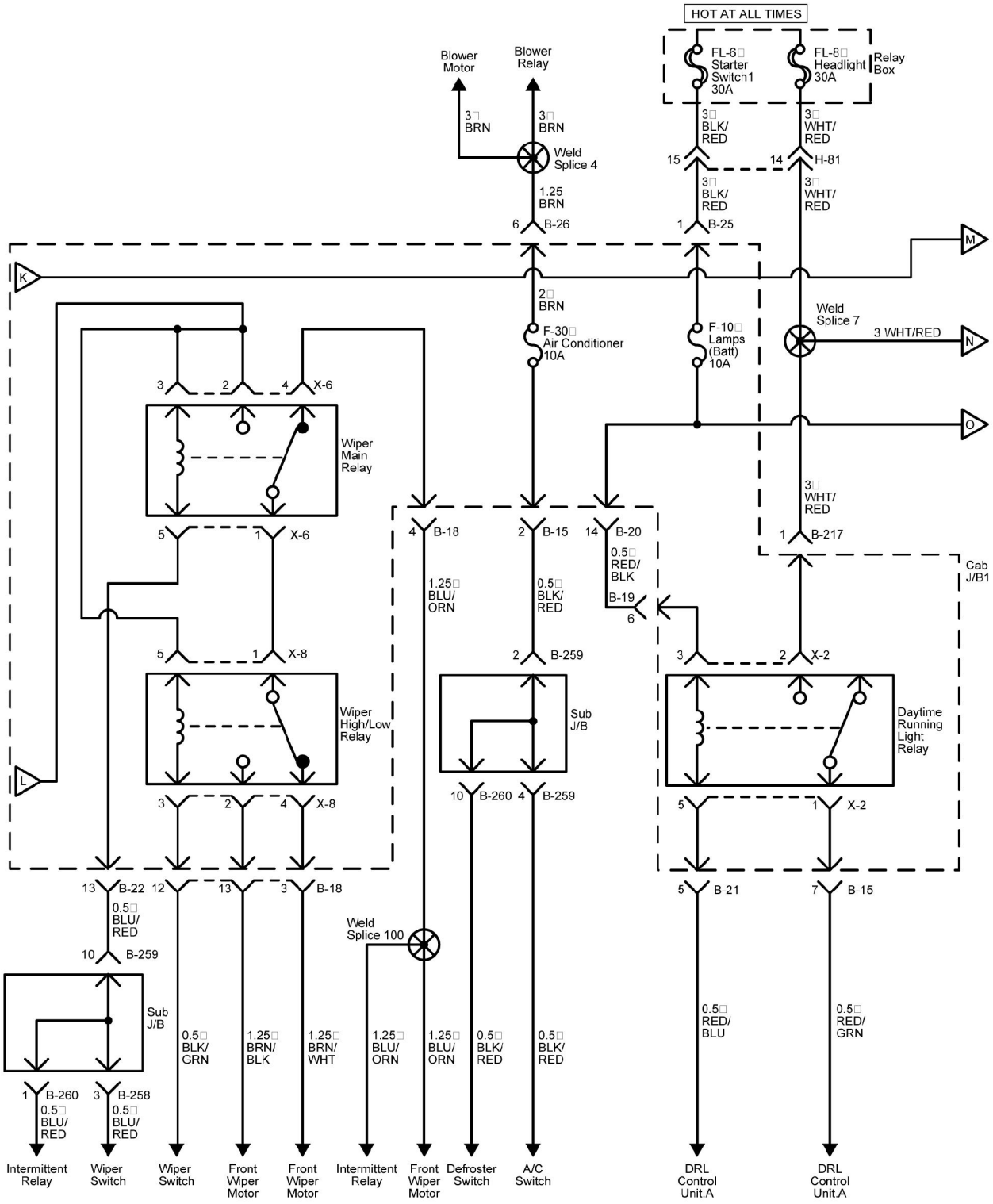

10 WHT
20 WHT
0.85 BLK/RED
A
B
C
D
E
F
G
HOT AT ALL TIMES
HOT AT ALL TIMES
HOT AT ALL TIMES
Relay Box
F-32 Tail Main 20A
F-31 Marker Lamp 20A
FL-3 Power ACC 50A
FL-10 Wiper 50A
FL-4 Fuel Pump 30A
FL-2 Starter 60A
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-27 Tail Lamps 10A
1.25 GRN/BLK
1.25 GRN/BLK
11
19 H-81
10 B-19
0.5 GRN/RED
10 H-80
0.5 GRN/RED
0.85 GRN/RED
0.85 LT GRN
5 RED/BLK
2 H-82
3 WHT/BLK
22 H-81
5 RED/BLK
3 WHT/BLK
2 B-26
Power Accessory Relay
Cab J/B1
F-25 Horn 15A
Horn Relay
3 WHT/BLU
3 WHT/BLK
3 2 X-22
Fuel Pump Relay
5 1 X-22
Weld Splice 8
2 GRN/BLK
3 2 X-26
Marker Light Relay
2 BRN
Fuel Pump
0.5 VIO/WHT
3 1 X-17
Starter Relay
4 B-26
Cab J/B1
0.75 GRN/RED
Tail Relay
5 1 X-26
5 2 X-17
NSBU Switch
0.85 BLK
0.5 VIO/WHT
3 BLK/WHT
5 H-66
2 H-52
1 H-110
0.85 BLK
0.5 GRN/RED
0.5 BRN/YEL
3 BLK/WHT
0.85 YEL/BRN
0.5 VIO/WHT
0.5 GRN/RED
0.5 GRN/RED
0.5 GRN/RED
3 BLK
0.85 LT GRN/BLK
0.75 LT GRN/BLK
50
4
67 J-131
FPRLY
P/N
STRLY
Powertrain Control Module (PCM)
Refer to Ground Distribution
J-9
License Plate Light
Rear Combination Light LH
Rear Combination Light RH
Front Manufacture Connector
Rear Manufacture Connector

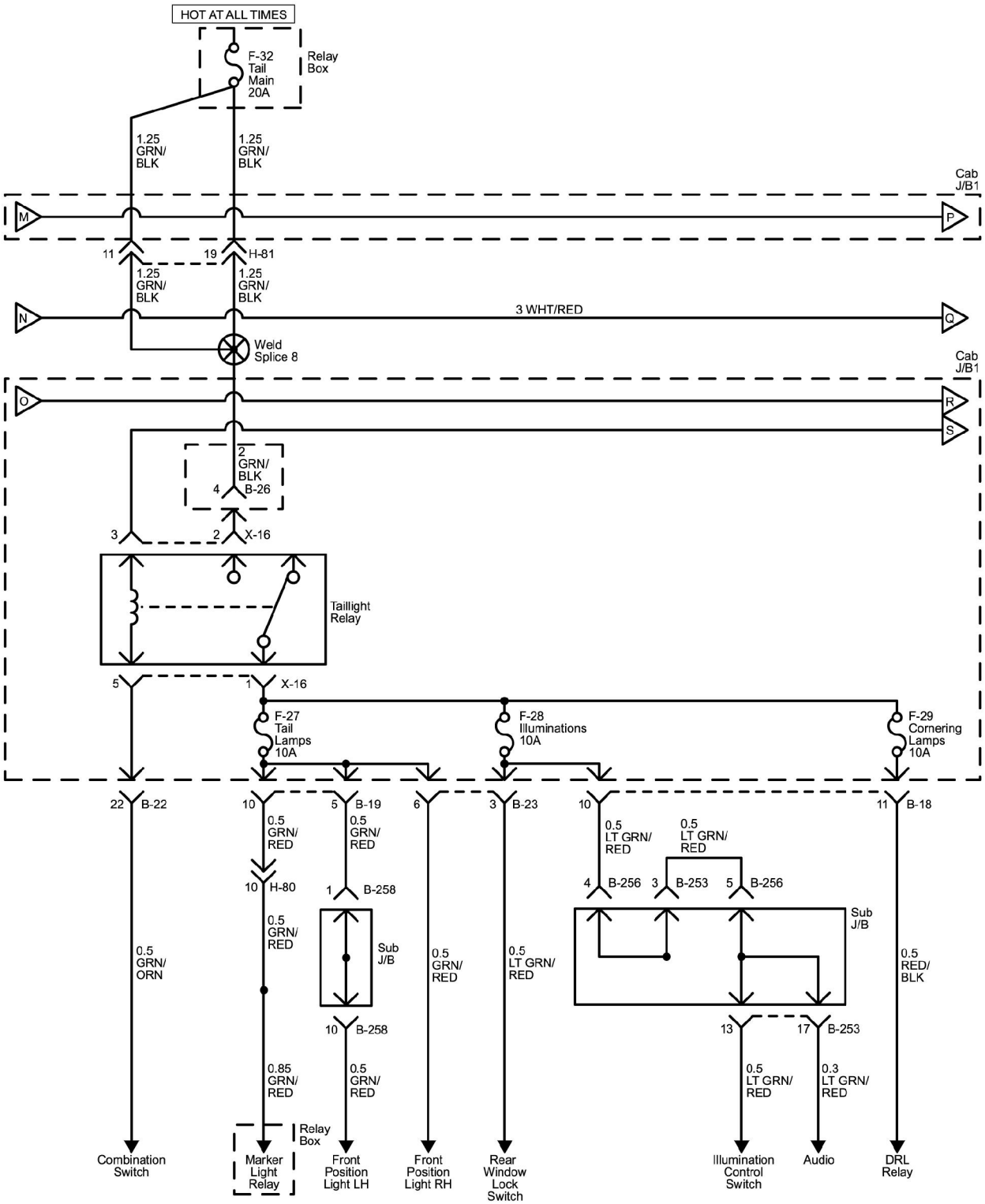

D
10 WHT
H
E
20 WHT
I
F
G
3 BLK/WHT
J
HOT AT ALL TIMES
Relay Box
FL-1 PCM 40A
FL-8 Headlight 30A
FL-7 HVAC 40A
FL-14 ETB 30A
FL-16 Towing Converter 30A
3 WHT/ GRN
1.25 WHT/ GRN
3 WHT/ GRN
3 X-28 2
PCM Main Relay
5 1 X-28
0.85 BRN/ YEL
3 WHT/ RED
3 WHT/ RED
14 H-81
3 WHT/ RED
Weld Splice 7
3 WHT/ RED
1 B-217
3 WHT/ RED
5 B-26
Cab J/B1
Daytime Running Light Relay
Headlight Hi Relay
5 WHT/ BLK
1 H-82
5 WHT/ BLK
Blower Relay
3 RED/ GRN
1 H-170
3 RED/ GRN
1 B-409
3 RED/ GRN
Electrical Trailer Brake Controller
3 RED/ WHT
8 H-172
3 RED/ WHT
Towing Converter
3 WHT/ RED
F-33 PCM1 20A
3 WHT/ RED
F-34 PCM2 20A
3 WHT/ RED
F-35 PCM3 20A
0.85 BLK/RED
1.25 YEL/ BLK
1.25 BRN
0.85 BRN
Rear Heater Sensor RH
0.85 BRN
Rear Heater Sensor LH
0.85 BRN
Front Heater Sensor RH
1.25 YEL/ BLK
1.25 BLU
1.25 BRN
13
1
10 H-52
1 BRN
Front Heater Sensor LH
0.5 BRN/ YEL
0.5 YEL/ BLK
1 YEL/ BLK
1 BLU
1 YEL/BLK
1 BLU
1 YEL/BLK
1 BLU
1 YEL/ BLK
1 BLU
59
47 J-131
MRY
PTR
Powertrain Control Module (PCM)
4 H-112
4 H-113
Ignition Coil (1,3,5,7)
Upfitter Install
Fuel Injector Cylinder No.1
Fuel Injector Cylinder No.3
Fuel Injector Cylinder No.5
Fuel Injector Cylinder No.7
Ignition Coil (2,4,6,8)
Upfitter Install
Fuel Injector Cylinder No.2
Fuel Injector Cylinder No.4
Fuel Injector Cylinder No.6
Fuel Injector Cylinder No.8

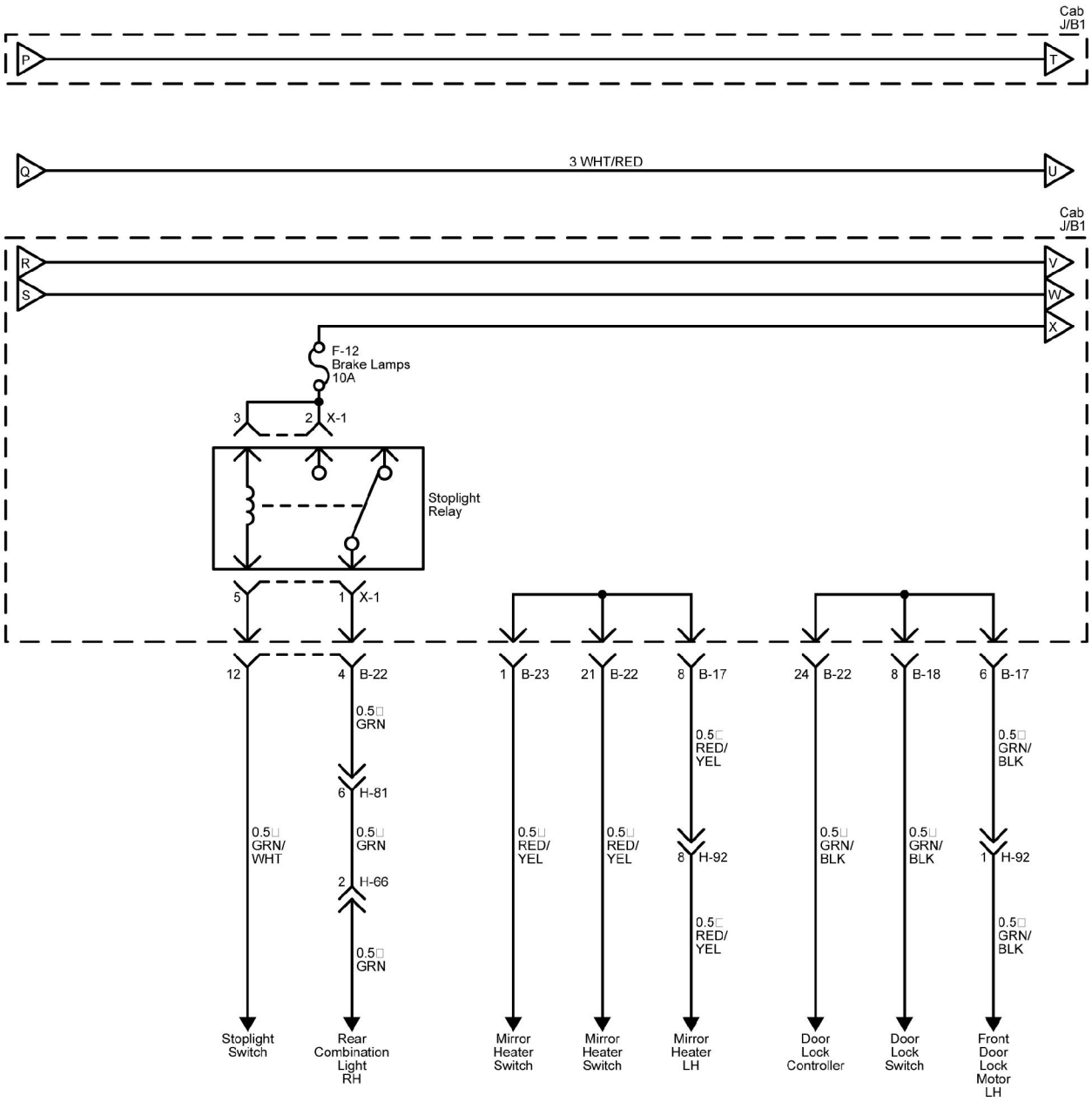

H
10 WHT
I
20 WHT
J
3 BLK/ WHT
HOT AT ALL TIMES
FL-6 Starter Switch1 30A
FL-5 Starter Switch2 40A
FL-12 Junction Block 50A
FL-11 ABS 60A
Relay Box
J-2
8 WHT
H-111
2 BLU
8 WHT
10 WHT
8 WHT
P-2
P-6
Starter
M
3 BLK/ RED
15 H-81
2 BLK/ YEL
6
2 BLK/ YEL
5 H-82
3 BLK/ YEL
21 H-81
3 WHT/ BLU
8 WHT
2 BLU
2 H-111
8 WHT
1 J-134
3 WHT/ BLU
2
3 WHT/ BLU
24 J-22
Battery Voltage
Battery Voltage
Electronic Hydraulic Control Unit (EHCU)
1 B-25
Weld Splice 6
Weld Splice 5
3 BLK/ YEL
1 B-26
3 BLK/ YEL
B
L
F
AC Generator
1
2 E-51
0.5 WHT/ BLU
0.5 WHT/ BLK
61
32 E-95
ACG L
ACG F
Power train Control Module (PCM)
6 B-25
3 BLK/ WHT
3 BLK/ YEL
Cab J/B1
F-3 Room Lamp, Audio 10A
See Cab J/B1 Details
Cigarette Lighter Relay
4
3 B-130
Ignition Switch
OFF
ACC
ON
ST
B2
IG2
ST
B1
ACC
IG1
6
2 WHT/ RED
1 B-24
5
3 RED/ YEL
4
2
3 BLK/ WHT
5 B-25
1
B-130
3 RED/ BLU
2 B-24
Cab J/B1
F-10 Lamps (Batt) 10A
F-22 ECU (Batt) 10A
F-20 ECM 10A
F-18 Igni-tion1 10A
F-7 ABS 10A
F-21 Meter 10A
F-24 Audio, ACC 15A
F-23 Mirror 10A
F-13 Starter 10A
F-16 Mirror Heater 15A
See Cab J/B1 Details

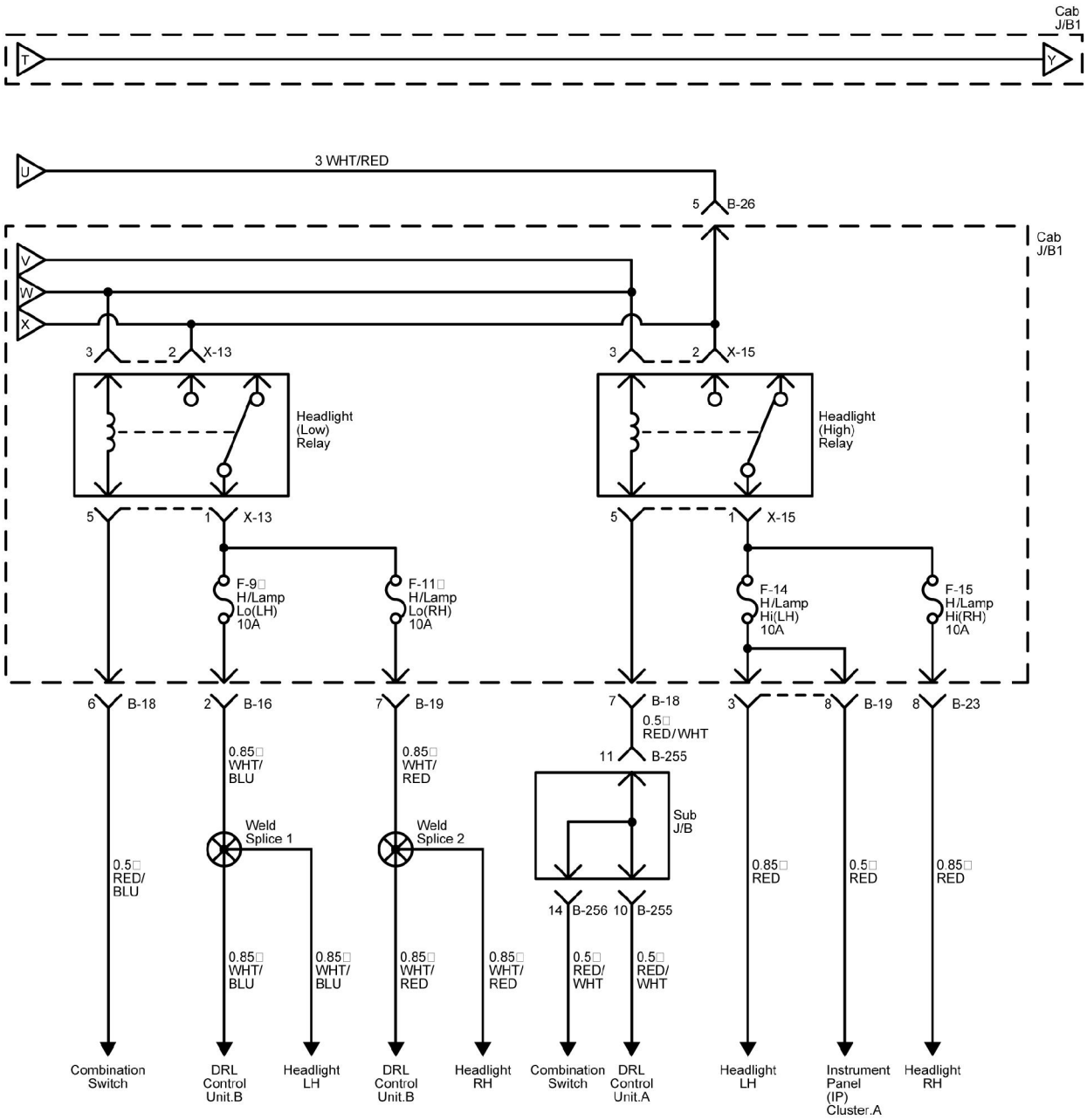
Power Distribution Schematics (Cab)

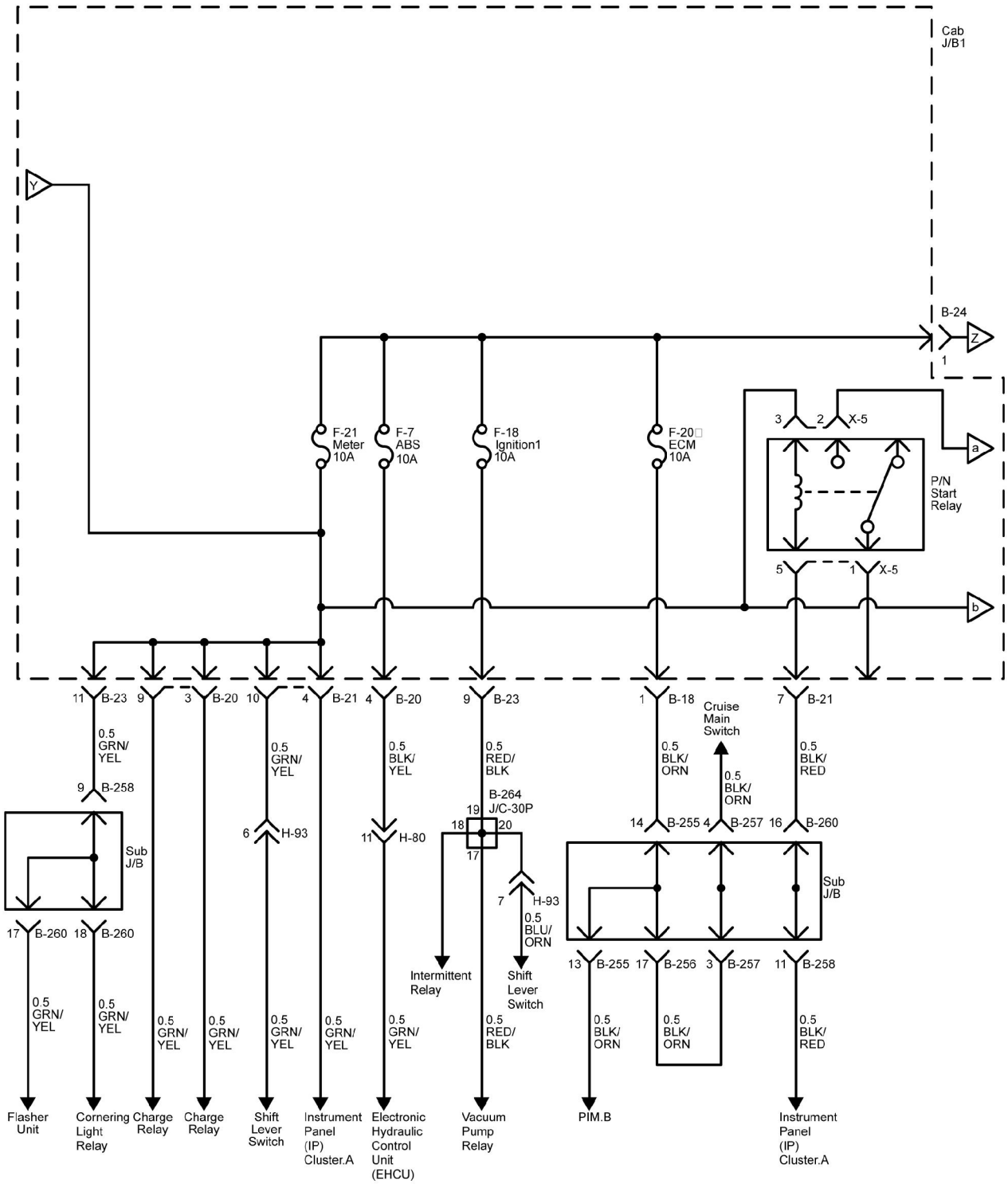


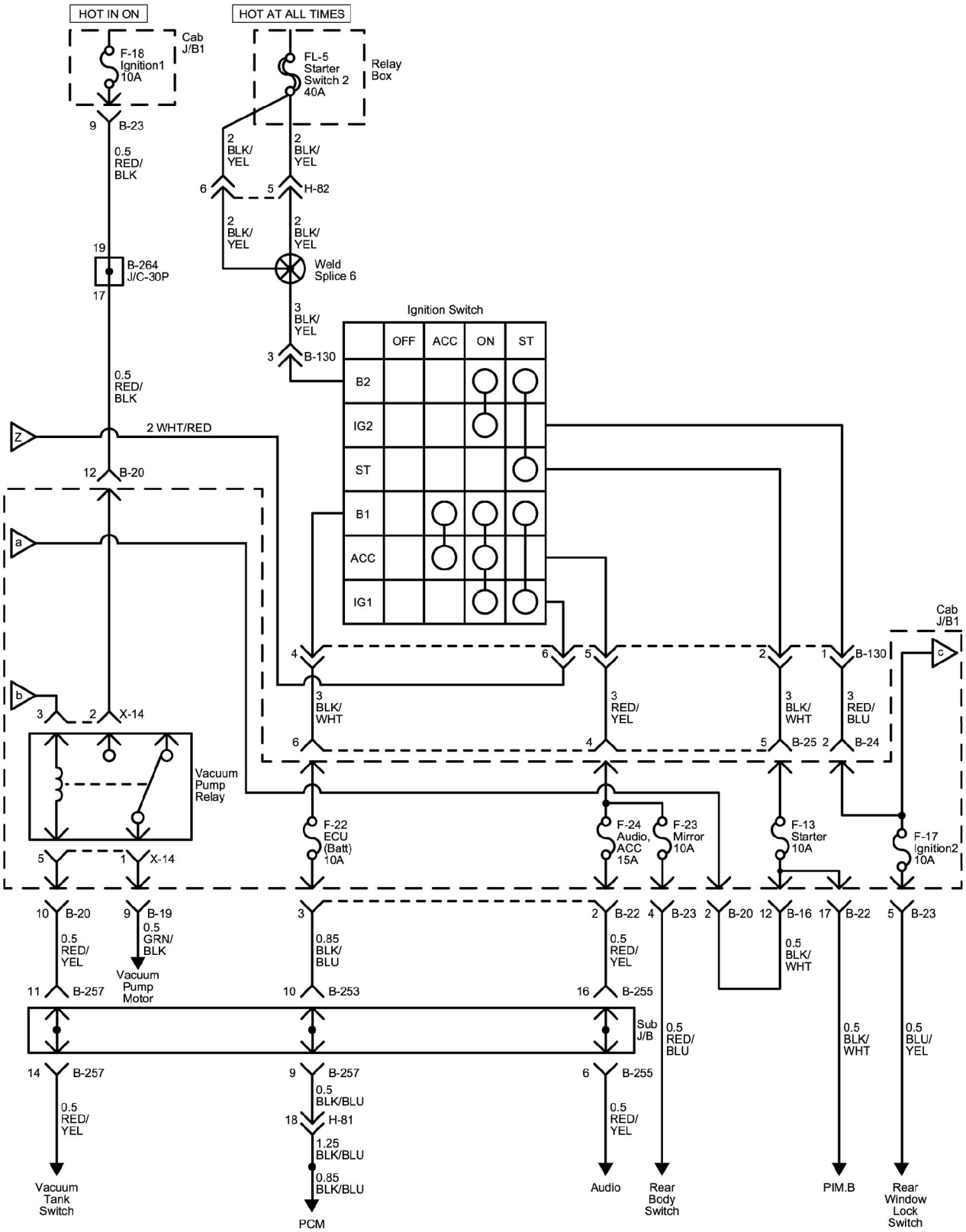

HOT AT ALL TIMES
Blower Motor
Blower Relay
FL-6 Starter Switch1 30A
FL-8 Headlight 30A
Relay Box
3 BRN
3 BRN
Weld Splice 4
1.25 BRN
6 B-26
3 BLK/ RED
15
3 BLK/ RED
1 B-25
3 WHT/ RED
14 H-81
3 WHT/ RED
K
M
2 BRN
F-30 Air Conditioner 10A
F-10 Lamps (Batt) 10A
Weld Splice 7
3 WHT/RED
N
O
3 X-6
2
4 X-6
Wiper Main Relay
5
1 X-6
3 WHT/ RED
1 B-217
Cab J/B1
4 B-18
2 B-15
14 B-20
1.25 BLU/ ORN
0.5 BLK/ RED
0.5 RED/ BLK
B-19
6
5
1 X-8
2 B-259
3
2 X-2
Wiper High/Low Relay
Sub J/B
Daytime Running Light Relay
L
3
2
4 X-8
10 B-260
4 B-259
5
1 X-2
13 B-22
12
13
3 B-18
0.5 BLU/ RED
10 B-259
Weld Splice 100
5 B-21
7 B-15
Sub J/B
0.5 BLK/ GRN
1.25 BRN/ BLK
1.25 BRN/ WHT
1.25 BLU/ ORN
1.25 BLU/ ORN
0.5 BLK/ RED
0.5 BLK/ RED
0.5 RED/ BLU
0.5 RED/ GRN
1 B-260
0.5 BLU/ RED
3 B-258
0.5 BLU/ RED
Intermittent Relay
Wiper Switch
Wiper Switch
Front Wiper Motor
Front Wiper Motor
Intermittent Relay
Front Wiper Motor
Defroster Switch
A/C Switch
DRL Control Unit.A
DRL Control Unit.A

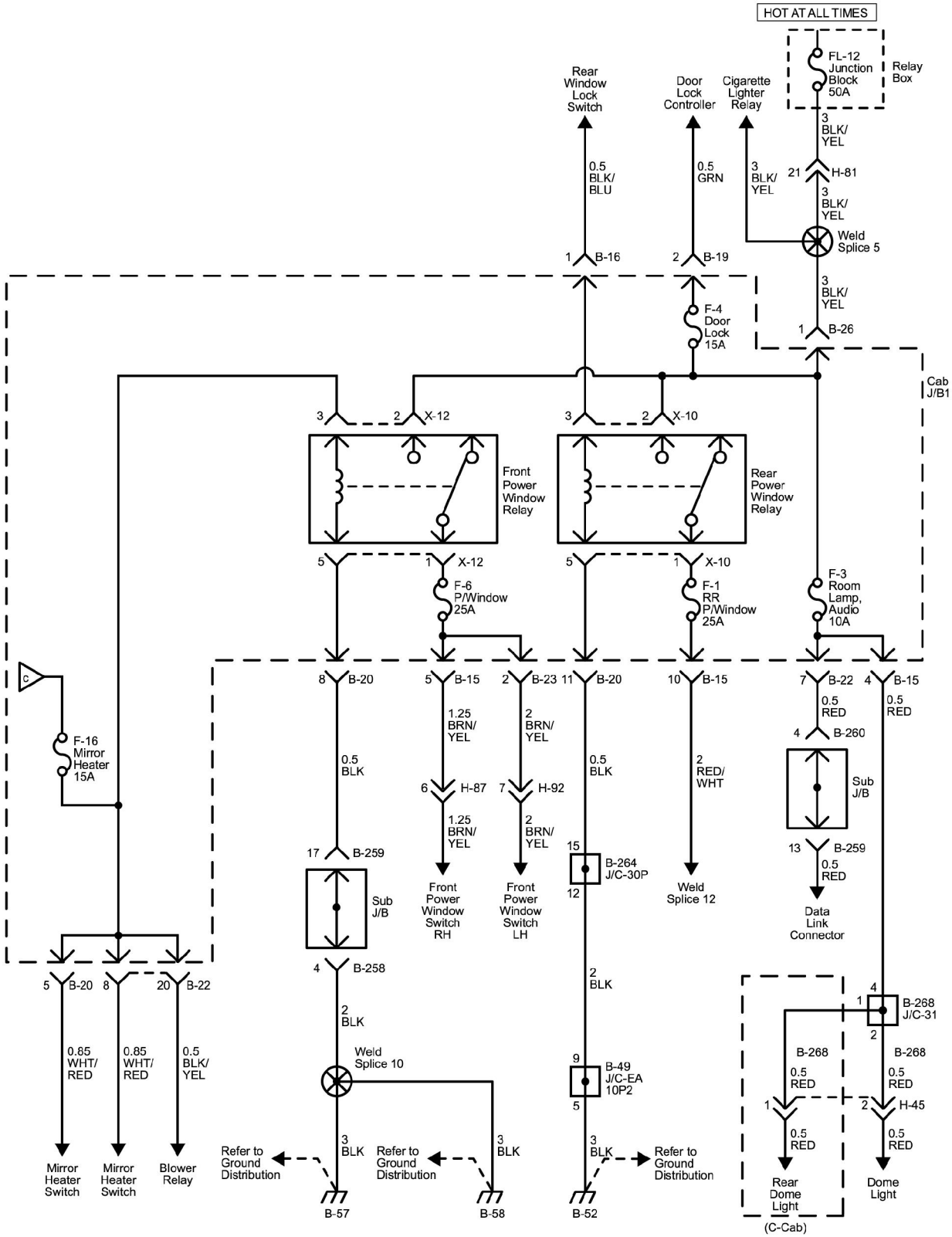

HOT AT ALL TIMES
F-32
Tail
Main
20A
Relay
Box
1.25
GRN/
BLK
1.25
GRN/
BLK
Cab
J/B1
M
P
11
19
H-81
1.25
GRN/
BLK
1.25
GRN/
BLK
N
3 WHT/RED
Q
Weld
Splice 8
Cab
J/B1
O
R
S
2
GRN/
BLK
4
B-26
3
2
X-16
Taillight
Relay
5
1
X-16
F-27
Tail
Lamps
10A
F-28
Illuminations
10A
F-29
Cornering
Lamps
10A
22
B-22
10
5
B-19
6
3
B-23
10
11
B-18
0.5
GRN/
ORN
10
H-80
0.5
GRN/
RED
1
B-258
0.5
GRN/
RED
0.5
GRN/
RED
0.5
LT GRN/
RED
0.5
LT GRN/
RED
4
B-256
3
B-253
5
B-256
Sub
J/B
Sub
J/B
0.5
GRN/
RED
0.5
GRN/
RED
0.5
LT GRN/
RED
0.5
RED/
BLK
10
B-258
13
17
B-253
0.85
GRN/
RED
0.5
GRN/
RED
0.5
LT GRN/
RED
0.3
LT GRN/
RED
Relay
Box
Combination
Switch
Marker
Light
Relay
Front
Position
Light LH
Front
Position
Light RH
Rear
Window
Lock
Switch
Illumination
Control
Switch
Audio
DRL
Relay

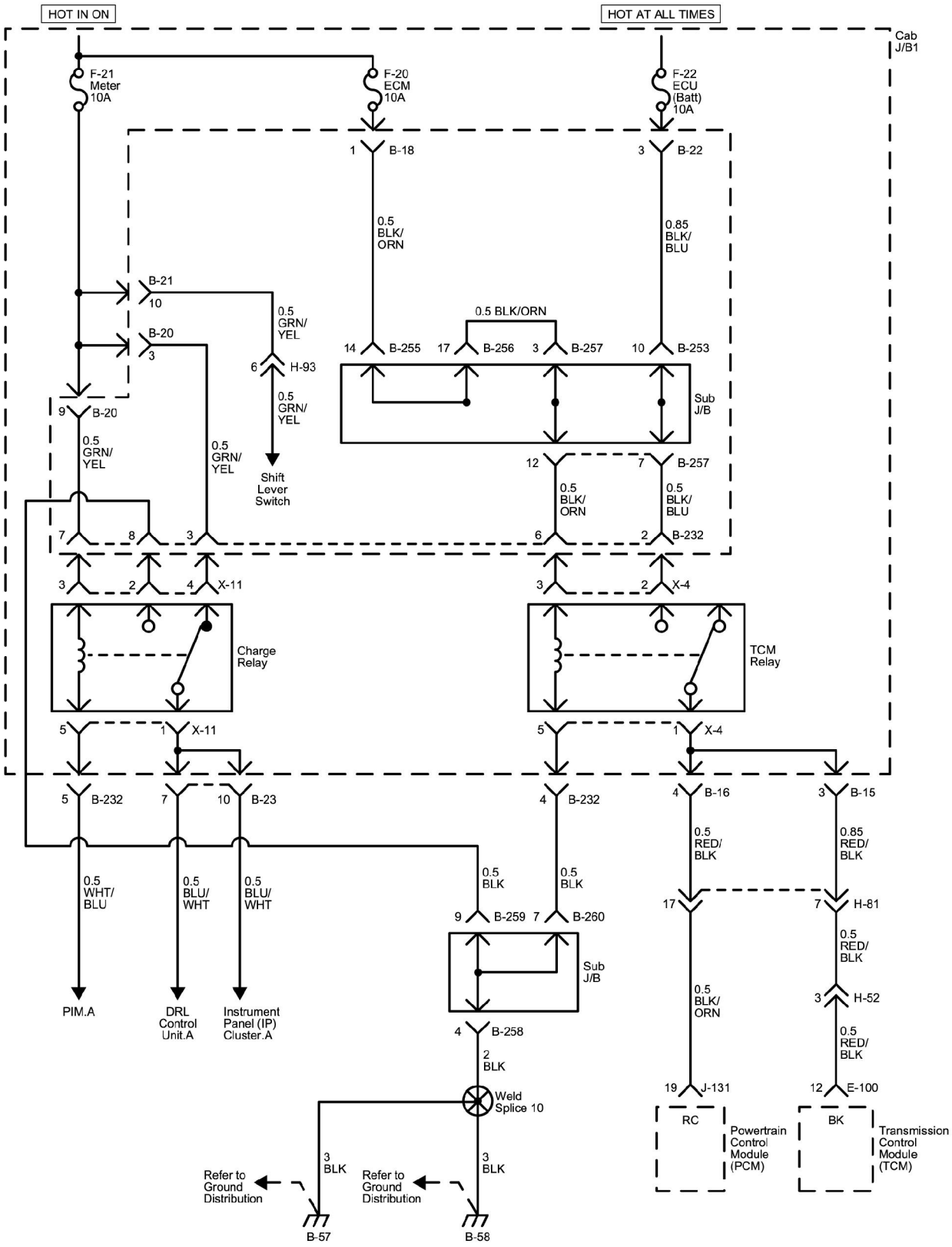

Cab
J/B1
P
T
Q
3 WHT/RED
U
Cab
J/B1
R
S
V
W
X
F-12
Brake Lamps
10A
3
2
X-1
Stoplight
Relay
5
1
X-1
12
4
B-22
0.5
GRN
6
H-81
0.5
GRN/
WHT
0.5
GRN
2
H-66
0.5
GRN
Stoplight
Switch
Rear
Combination
Light
RH
1
B-23
0.5
RED/
YEL
Mirror
Heater
Switch
21
B-22
0.5
RED/
YEL
Mirror
Heater
Switch
8
B-17
0.5
RED/
YEL
8
H-92
0.5
RED/
YEL
Mirror
Heater
LH
24
B-22
0.5
GRN/
BLK
Door
Lock
Controller
8
B-18
0.5
GRN/
BLK
Door
Lock
Switch
6
B-17
0.5
GRN/
BLK
1
H-92
0.5
GRN/
BLK
Front
Door
Lock
Motor
LH


Cab
J/B1
T
Y
U
3 WHT/RED
5
B-26
Cab
J/B1
V
W
X
3
2
X-13
3
2
X-15
Headlight
(Low)
Relay
Headlight
(High)
Relay
5
1
X-13
5
1
X-15
F-9
H/Lamp
Lo(LH)
10A
F-11
H/Lamp
Lo(RH)
10A
F-14
H/Lamp
Hi(LH)
10A
F-15
H/Lamp
Hi(RH)
10A
6
B-18
2
B-16
7
B-19
7
B-18
3
8
B-19
8
B-23
0.5
RED/
BLU
0.85
WHT/
BLU
Weld
Splice 1
0.85
WHT/
RED
Weld
Splice 2
0.5
RED/WHT
11
B-255
Sub
J/B
0.85
RED
0.5
RED
0.85
RED
14
B-256
10
B-255
0.85
WHT/
BLU
0.85
WHT/
BLU
0.85
WHT/
RED
0.85
WHT/
RED
0.5
RED/
WHT
0.5
RED/
WHT
Combination
Switch
DRL
Control
Unit.B
Headlight
LH
DRL
Control
Unit.B
Headlight
RH
Combination
Switch
DRL
Control
Unit.A
Headlight
LH
Instrument
Panel
(IP)
Cluster.A
Headlight
RH

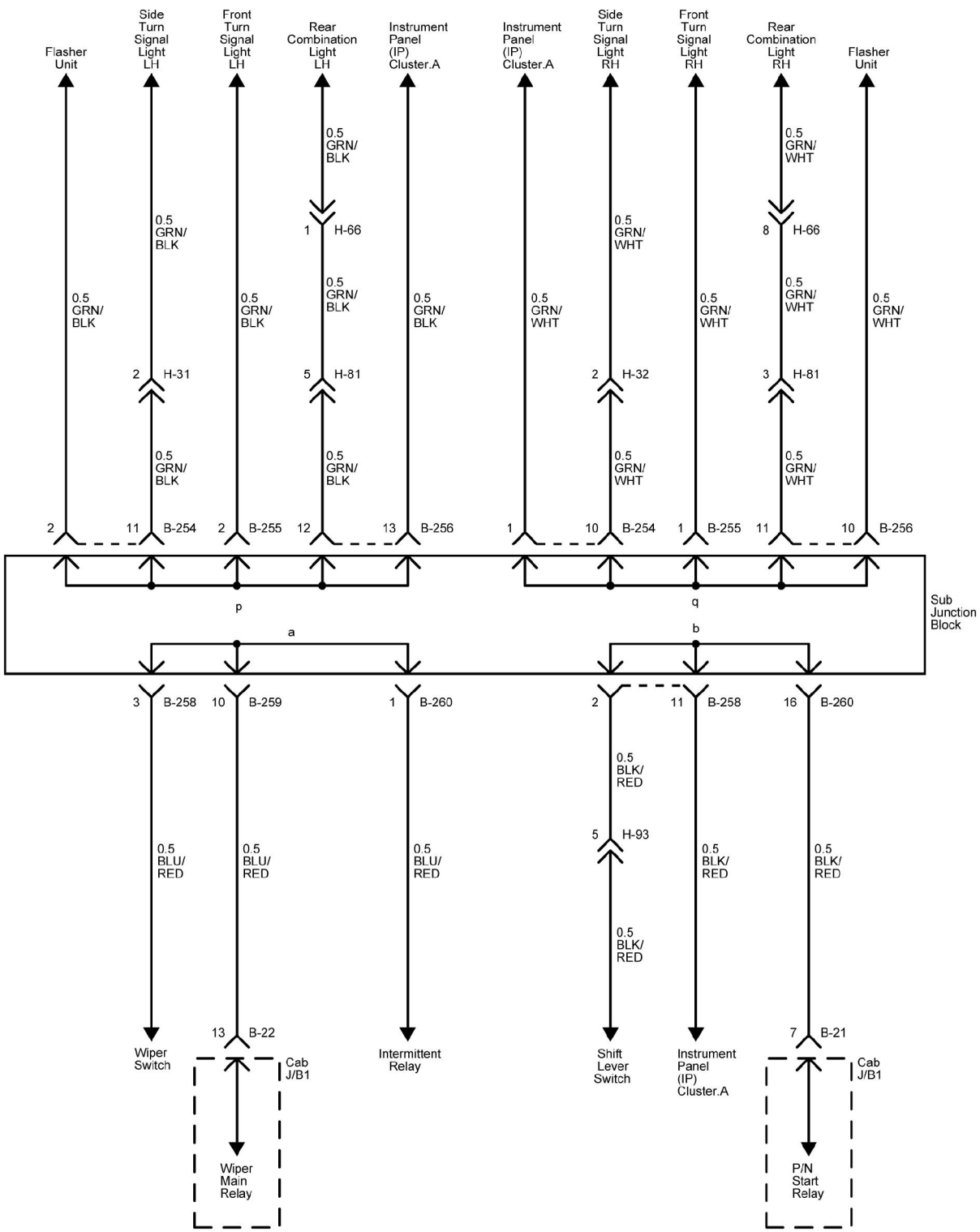

Cab
J/B1
Y
B-24
Z
1
F-21
Meter
10A
F-7
ABS
10A
F-18
Ignition1
10A
F-20
ECM
10A
3
2
X-5
a
P/N
Start
Relay
5
1
X-5
b
11
B-23
0.5
GRN/
YEL
9
B-258
Sub
J/B
17
B-260
18
B-260
0.5
GRN/
YEL
0.5
GRN/
YEL
Flasher
Unit
Cornering
Light
Relay
9
B-23
0.5
GRN/
YEL
Charge
Relay
3
B-20
0.5
GRN/
YEL
Charge
Relay
10
4
B-21
0.5
GRN/
YEL
6
H-93
0.5
GRN/
YEL
Shift
Lever
Switch
0.5
GRN/
YEL
Instrument
Panel
(IP)
Cluster.A
4
B-20
0.5
BLK/
YEL
11
H-80
0.5
GRN/
YEL
Electronic
Hydraulic
Control
Unit
(EHCU)
9
B-23
0.5
RED/
BLK
B-264
J/C-30P
19
18
20
17
7
H-93
0.5
BLU/
ORN
Intermittent
Relay
Shift
Lever
Switch
0.5
RED/
BLK
Vacuum
Pump
Relay
1
B-18
0.5
BLK/
ORN
Cruise
Main
Switch
0.5
BLK/
ORN
14
B-255
4
B-257
7
B-21
0.5
BLK/
RED
16
B-260
Sub
J/B
13
B-255
17
B-256
3
B-257
11
B-258
0.5
BLK/
ORN
0.5
BLK/
ORN
0.5
BLK/
RED
PIM.B
Instrument
Panel
(IP)
Cluster.A

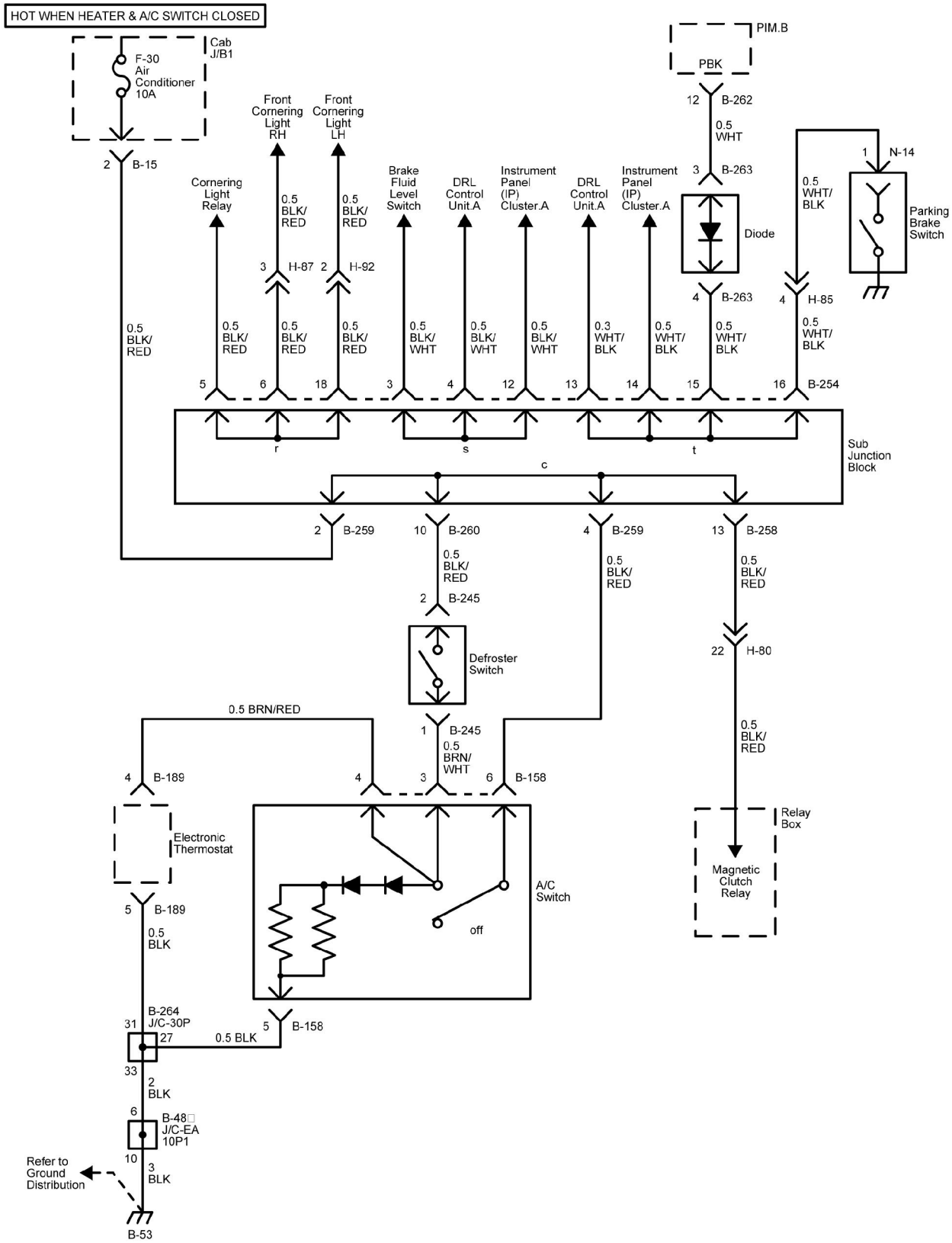

HOT IN ON
HOT AT ALL TIMES
Cab J/B1
F-18 Ignition1 10A
FL-5 Starter Switch 2 40A
Relay Box
9 B-23
0.5 RED/ BLK
2 BLK/ YEL
6
5 H-82
2 BLK/ YEL
19
B-264 J/C-30P
17
Weld Splice 6
3 BLK/ YEL
3 B-130
Ignition Switch
OFF
ACC
ON
ST
B2
IG2
ST
B1
ACC
IG1
0.5 RED/ BLK
2 WHT/RED
Z
12 B-20
a
b
3
2 X-14
Vacuum Pump Relay
5
1 X-14
4
6
5
2
1 B-130
3 BLK/ WHT
3 RED/ YEL
3 BLK/ WHT
3 RED/ BLU
6
4
5 B-25
2 B-24
c
F-22 ECU (Batt) 10A
F-24 Audio, ACC 15A
F-23 Mirror 10A
F-13 Starter 10A
F-17 Ignition2 10A
10 B-20
0.5 RED/ YEL
11 B-257
9 B-19
0.5 GRN/ BLK
Vacuum Pump Motor
3
0.85 BLK/ BLU
10 B-253
2 B-22
0.5 RED/ YEL
16 B-255
4 B-23
2 B-20
12 B-16
0.5 BLK/ WHT
17 B-22
5 B-23
Sub J/B
0.5 RED/ BLU
0.5 BLK/ WHT
0.5 BLU/ YEL
14 B-257
0.5 RED/ YEL
Vacuum Tank Switch
9 B-257
0.5 BLK/BLU
18 H-81
1.25 BLK/BLU
0.85 BLK/BLU
PCM
6 B-255
0.5 RED/ YEL
Audio
Rear Body Switch
PIM.B
Rear Window Lock Switch

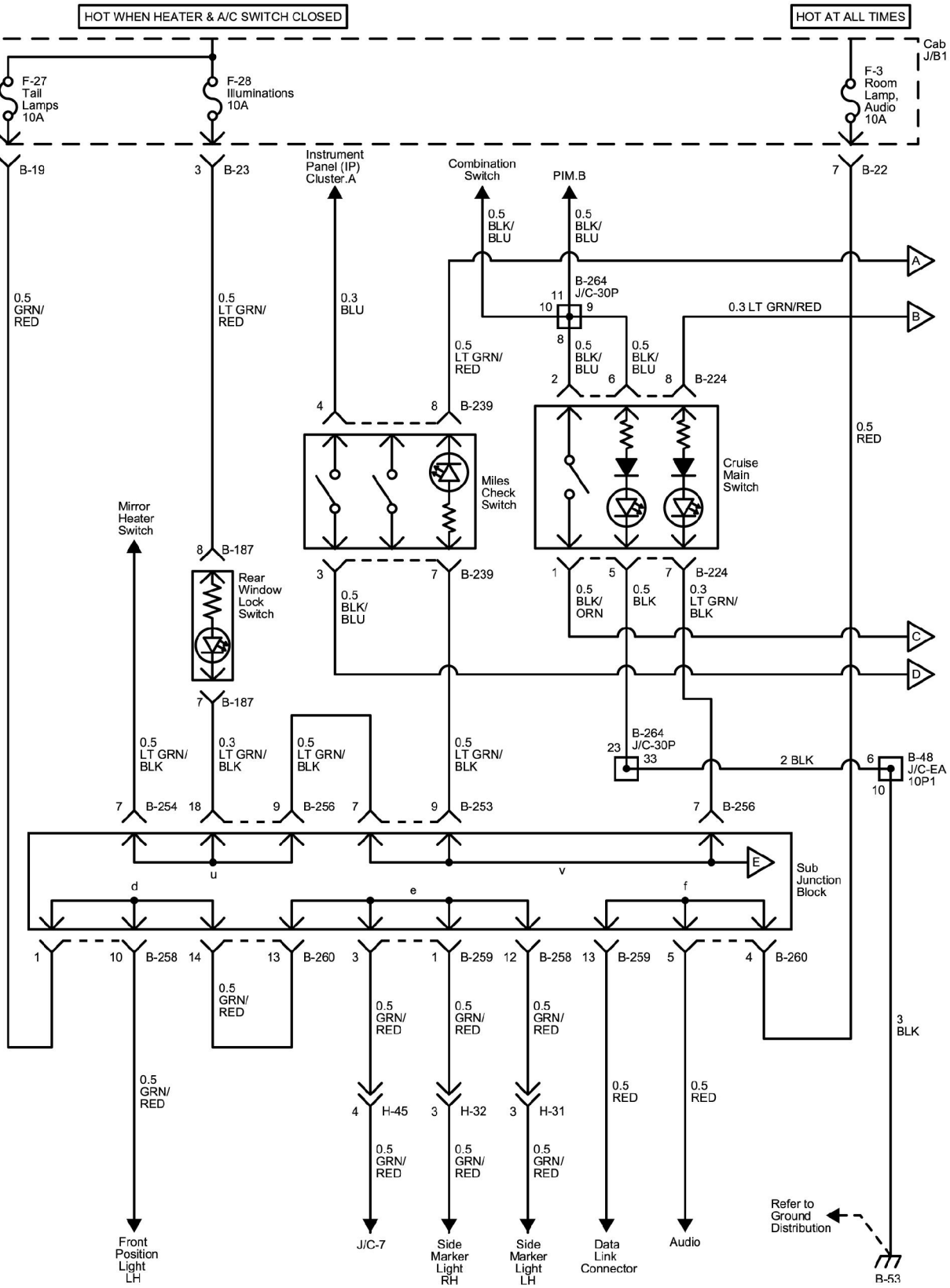

HOT AT ALL TIMES
FL-12 Junction Block 50A
Relay Box
Rear Window Lock Switch
Door Lock Controller
Cigarette Lighter Relay
3 BLK/ YEL
21 H-81
0.5 BLK/ BLU
0.5 GRN
3 BLK/ YEL
Weld Splice 5
1 B-16
2 B-19
1 B-26
F-4 Door Lock 15A
Cab J/B1
3 2 X-12
3 2 X-10
Front Power Window Relay
Rear Power Window Relay
5 1 X-12
5 1 X-10
F-6 P/Window 25A
F-1 RR P/Window 25A
F-3 Room Lamp, Audio 10A
C
F-16 Mirror Heater 15A
8 B-20
5 B-15
2 B-23
11 B-20
10 B-15
7 B-22
4 B-15
0.5 BLK
1.25 BRN/ YEL
2 BRN/ YEL
0.5 BLK
2 RED/ WHT
0.5 RED
4 B-260
Sub J/B
6 H-87
7 H-92
1.25 BRN/ YEL
2 BRN/ YEL
13 B-259
0.5 RED
17 B-259
15
B-264 J/C-30P
12
Front Power Window Switch RH
Front Power Window Switch LH
Weld Splice 12
Data Link Connector
Sub J/B
4 B-258
2 BLK
2 BLK
5 B-20
8
20 B-22
0.85 WHT/ RED
0.85 WHT/ RED
0.5 BLK/ YEL
Weld Splice 10
9
B-49 J/C-EA 10P2
5
4
1
B-268 J/C-31
2
B-268
0.5 RED
B-268
0.5 RED
1
2 H-45
0.5 RED
0.5 RED
3 BLK
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
Mirror Heater Switch
Mirror Heater Switch
Blower Relay
B-57
B-58
B-52
Rear Dome Light
(C-Cab)
Dome Light

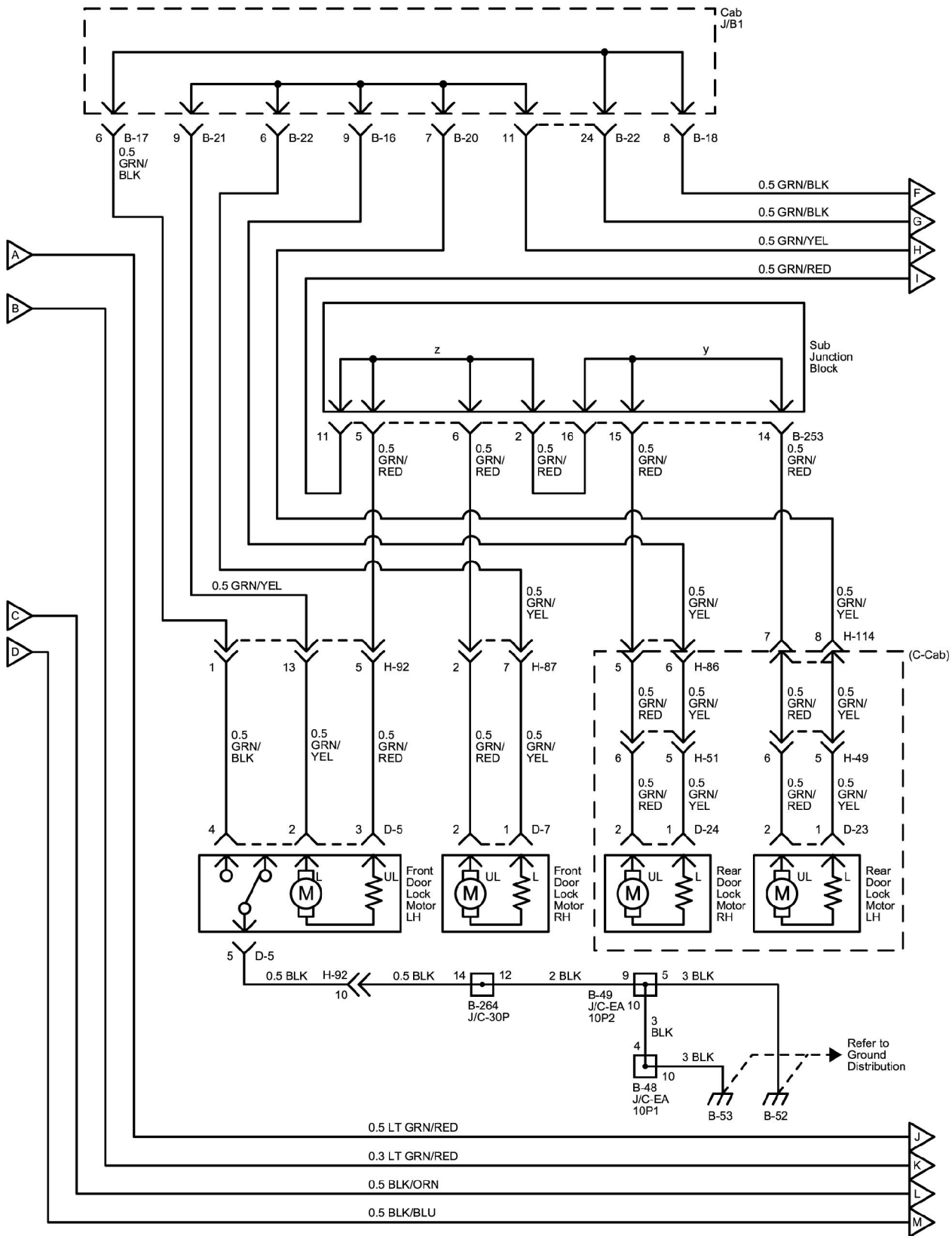

HOT IN ON
HOT AT ALL TIMES
Cab J/B1
F-21 Meter 10A
F-20 ECM 10A
F-22 ECU (Batt) 10A
1 B-18
3 B-22
0.5 BLK/ ORN
0.85 BLK/ BLU
B-21
10
0.5 GRN/ YEL
B-20
3
6 H-93
0.5 BLK/ORN
14 B-255
17 B-256
3 B-257
10 B-253
Sub J/B
9 B-20
0.5 GRN/ YEL
0.5 GRN/ YEL
Shift Lever Switch
12
7 B-257
0.5 BLK/ ORN
0.5 BLK/ BLU
6
2 B-232
7
8
3
3
2
4 X-11
3
2 X-4
Charge Relay
TCM Relay
5
1 X-11
5
1 X-4
5 B-232
7
10 B-23
4 B-232
4 B-16
3 B-15
0.5 RED/ BLK
0.85 RED/ BLK
0.5 WHT/ BLU
0.5 BLU/ WHT
0.5 BLU/ WHT
0.5 BLK
0.5 BLK
9 B-259
7 B-260
17
7 H-81
0.5 RED/ BLK
Sub J/B
0.5 BLK/ ORN
3 H-52
0.5 RED/ BLK
PIM.A
DRL Control Unit.A
Instrument Panel (IP) Cluster.A
4 B-258
2 BLK
19 J-131
12 E-100
Weld Splice 10
RC
Powertrain Control Module (PCM)
BK
Transmission Control Module (TCM)
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
B-57
B-58

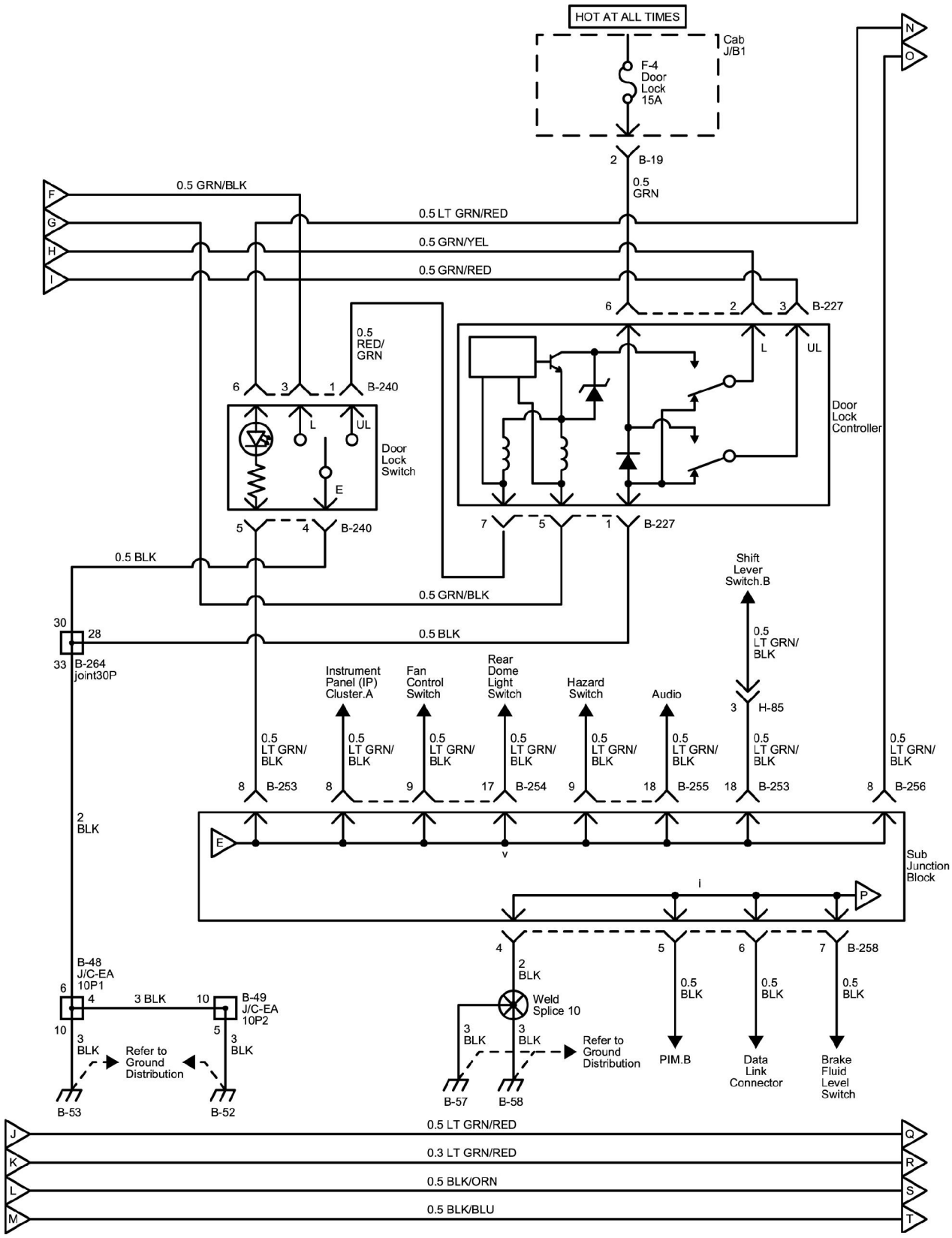
Sub Junction Block Schematics

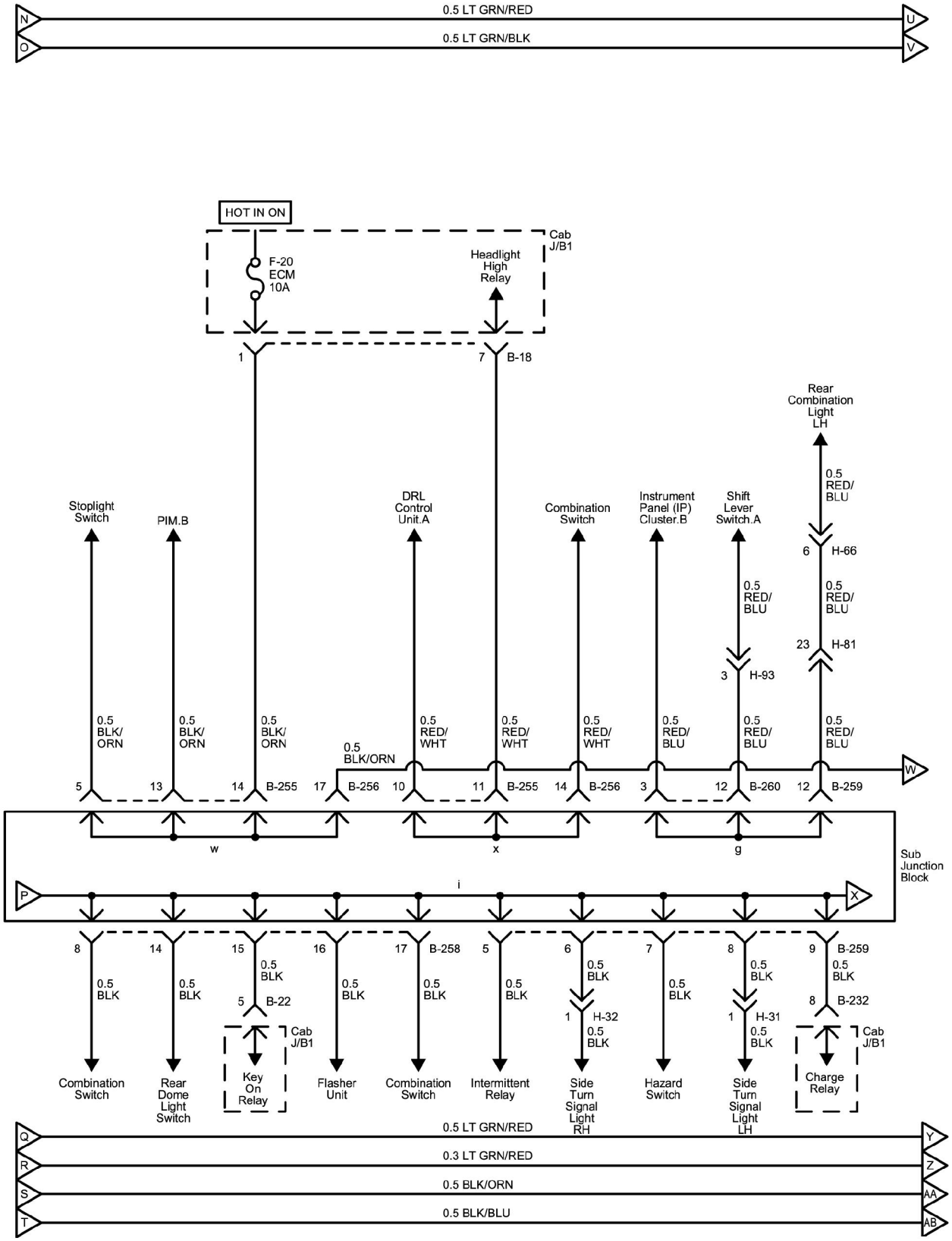


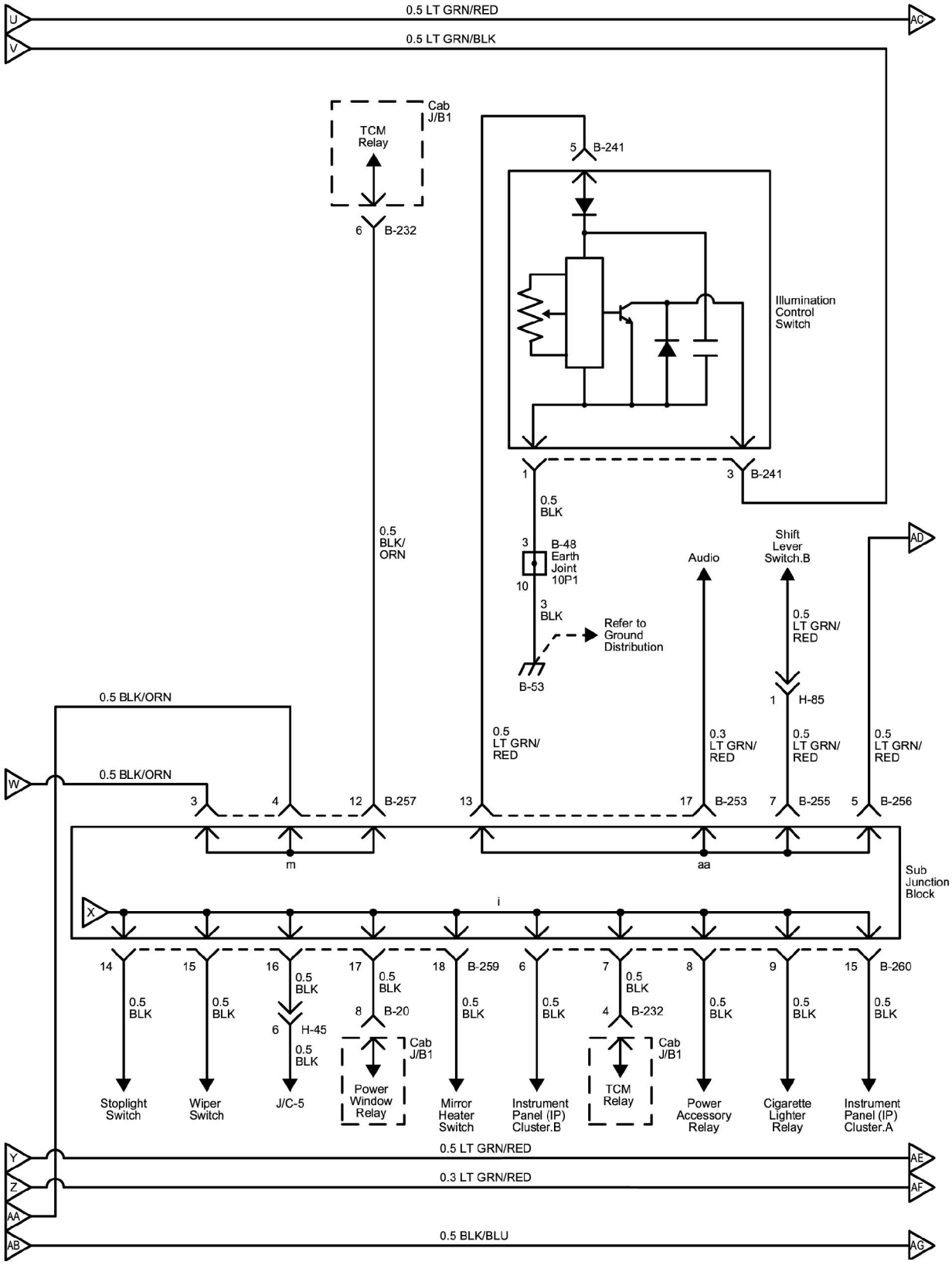

HOT WHEN HEATER & A/C SWITCH CLOSED
Cab J/B1
F-30 Air Conditioner 10A
2 B-15
0.5 BLK/ RED
Front Cornering Light RH
Front Cornering Light LH
Cornering Light Relay
0.5 BLK/ RED
3 H-87
2 H-92
Brake Fluid Level Switch
DRL Control Unit.A
Instrument Panel (IP) Cluster.A
DRL Control Unit.A
Instrument Panel (IP) Cluster.A
PIM.B
PBK
12 B-262
0.5 WHT
3 B-263
Diode
4 B-263
0.5 WHT/ BLK
1 N-14
Parking Brake Switch
4 H-85
0.5 WHT/ BLK
0.5 BLK/ WHT
0.3 WHT/ BLK
0.5 WHT/ BLK
0.5 WHT/ BLK
5 6 18 3 4 12 13 14 15 16 B-254
r
s
t
c
Sub Junction Block
2 B-259
10 B-260
4 B-259
13 B-258
0.5 BLK/ RED
2 B-245
Defroster Switch
0.5 BRN/RED
1 B-245
0.5 BRN/ WHT
4 B-189
4 3 6 B-158
22 H-80
0.5 BLK/ RED
Relay Box
Magnetic Clutch Relay
Electronic Thermostat
A/C Switch
off
5 B-189
0.5 BLK
B-264 J/C-30P
31 27 0.5 BLK 5 B-158
33
2 BLK
6
B-48 J/C-EA 10P1
10
3 BLK
Refer to Ground Distribution
B-53

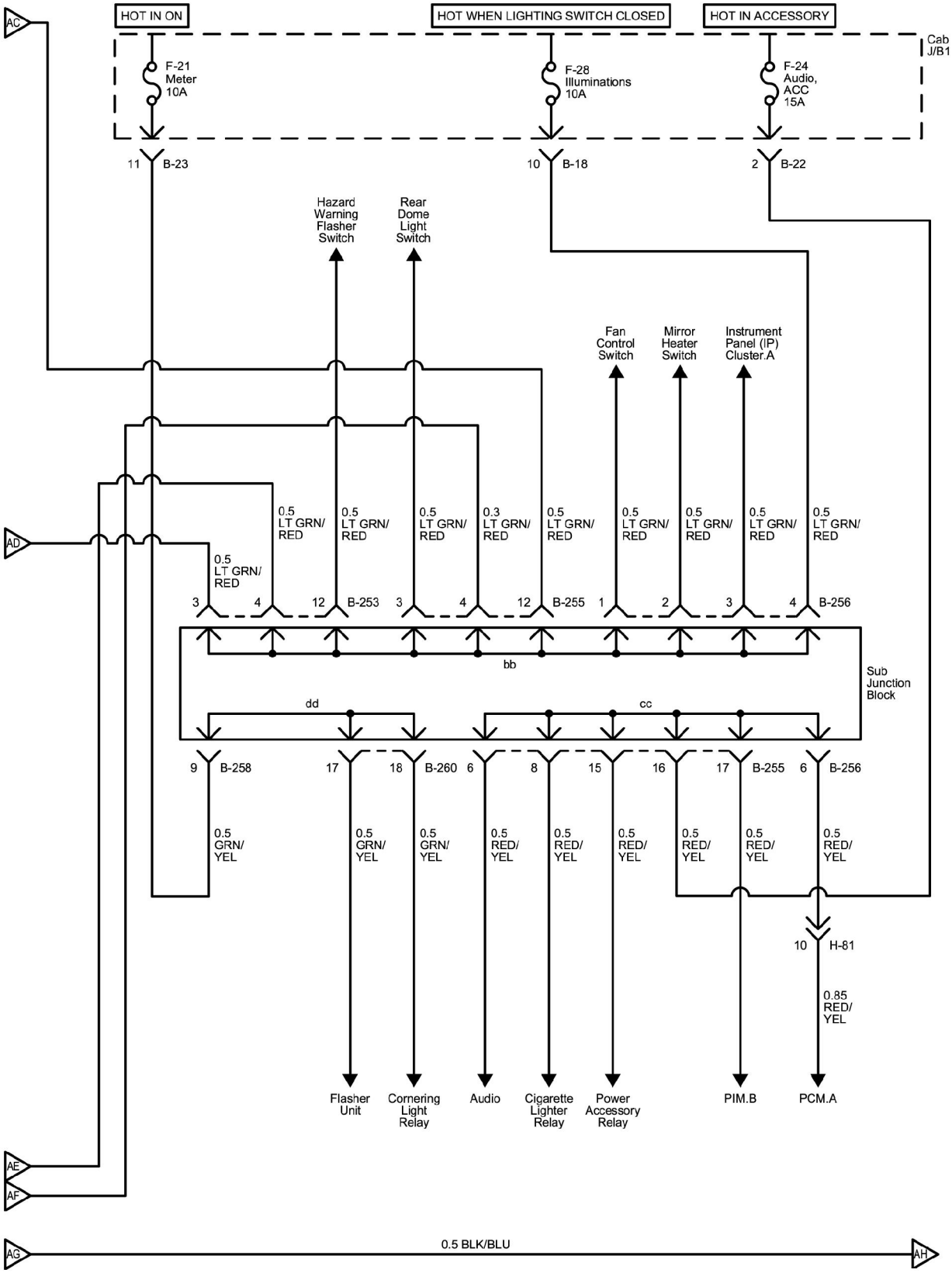

HOT WHEN HEATER & A/C SWITCH CLOSED
HOT AT ALL TIMES
Cab J/B1
F-27 Tail Lamps 10A
F-28 Illuminations 10A
F-3 Room Lamp, Audio 10A
5 B-19
3 B-23
7 B-22
Instrument Panel (IP) Cluster.A
Combination Switch
PIM.B
0.5 BLK/ BLU
0.5 BLK/ BLU
A
B-264 J/C-30P
11
10
9
8
0.3 LT GRN/RED
B
0.5 GRN/ RED
0.5 LT GRN/ RED
0.3 BLU
0.5 BLK/ BLU
0.5 BLK/ BLU
2
6
8 B-224
4
8 B-239
0.5 RED
Miles Check Switch
Cruise Main Switch
Mirror Heater Switch
8 B-187
Rear Window Lock Switch
3
7 B-239
0.5 BLK/ BLU
1
5
7 B-224
0.5 BLK/ ORN
0.5 BLK
0.3 LT GRN/ BLK
C
D
7 B-187
0.5 LT GRN/ BLK
0.3 LT GRN/ BLK
0.5 LT GRN/ BLK
0.5 LT GRN/ BLK
B-264 J/C-30P
23
33
2 BLK
6
B-48 J/C-EA 10P1
10
7 B-254
18
9 B-256
7
9 B-253
7 B-256
u
v
E
Sub Junction Block
d
e
f
1
10 B-258
14
13 B-260
3
1 B-259
12 B-258
13 B-259
5
4 B-260
0.5 GRN/ RED
0.5 GRN/ RED
0.5 GRN/ RED
0.5 GRN/ RED
3 BLK
0.5 GRN/ RED
0.5 RED
0.5 RED
4 H-45
3 H-32
3 H-31
0.5 GRN/ RED
0.5 GRN/ RED
0.5 GRN/ RED
Refer to Ground Distribution
Front Position Light LH
J/C-7
Side Marker Light RH
Side Marker Light LH
Data Link Connector
Audio
B-53

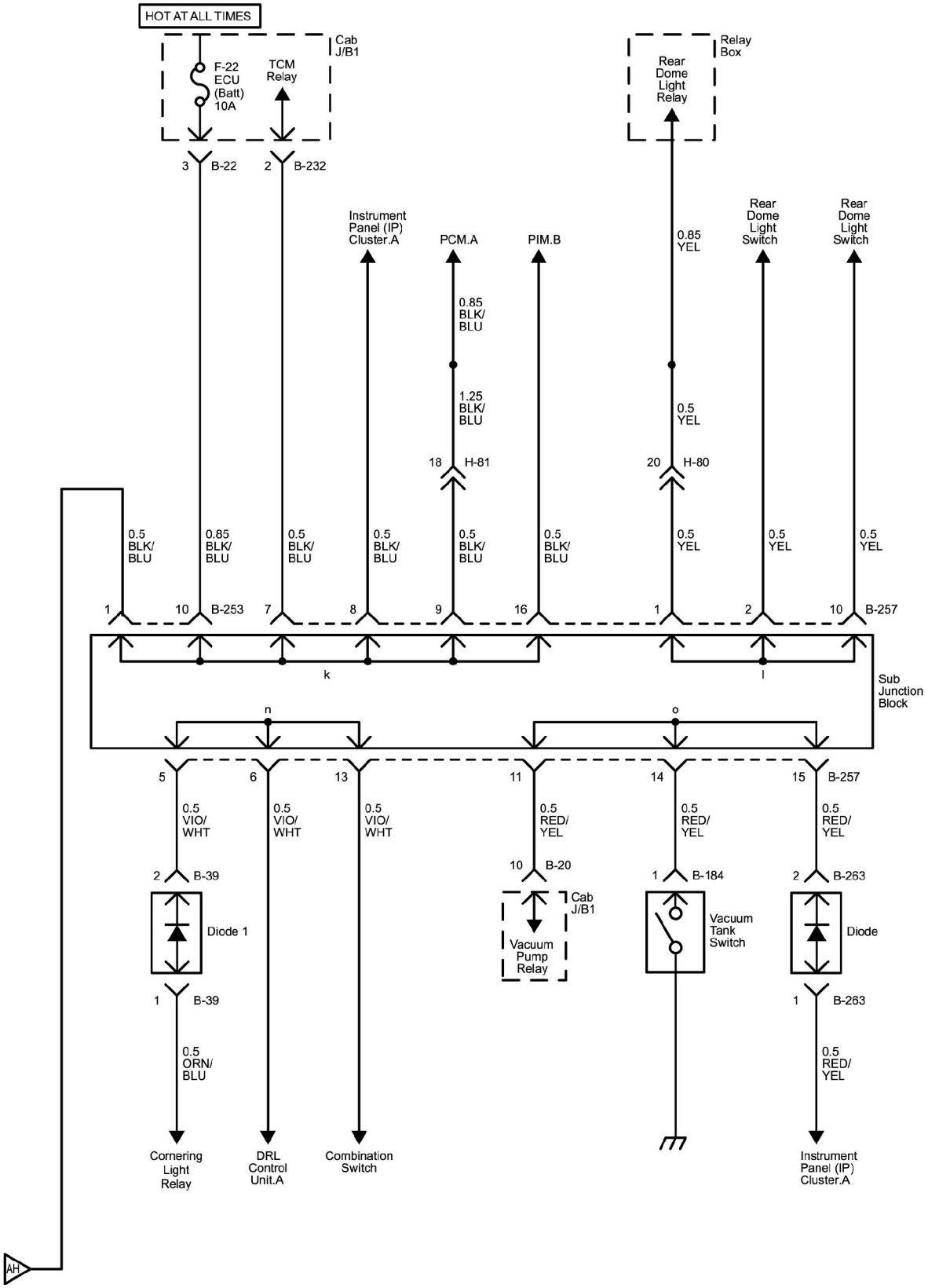

Cab J/B1
6 B-17 0.5 GRN/ BLK
9 B-21
6 B-22
9 B-16
7 B-20
11
24 B-22
8 B-18
0.5 GRN/BLK F
0.5 GRN/BLK G
0.5 GRN/YEL H
0.5 GRN/RED I
A
B
z
y
Sub Junction Block
11 5 6 2 16 15 14 B-253
0.5 GRN/ RED
0.5 GRN/YEL
0.5 GRN/ YEL
C
D
1 13 5 H-92
2 7 H-87
5 6 H-86
7 8 H-114
(C-Cab)
0.5 GRN/ BLK
0.5 GRN/ YEL
0.5 GRN/ RED
6 5 H-51
6 5 H-49
4 2 3 D-5
2 1 D-7
2 1 D-24
2 1 D-23
M
UL
L
Front Door Lock Motor LH
Front Door Lock Motor RH
Rear Door Lock Motor RH
Rear Door Lock Motor LH
5 D-5
0.5 BLK H-92 10
0.5 BLK 14 12
B-264 J/C-30P
2 BLK 9 5 3 BLK
B-49 J/C-EA 10P2 10
3 BLK
4 10
B-48 J/C-EA 10P1
B-53
B-52
Refer to Ground Distribution
0.5 LT GRN/RED J
0.3 LT GRN/RED K
0.5 BLK/ORN L
0.5 BLK/BLU M


HOT AT ALL TIMES
Cab J/B1
F-4 Door Lock 15A
2 B-19
0.5 GRN
0.5 GRN/BLK
0.5 LT GRN/RED
0.5 GRN/YEL
0.5 GRN/RED
F
G
H
I
N
O
6 2 3 B-227
0.5 RED/ GRN
6 3 1 B-240
L
UL
E
Door Lock Switch
Door Lock Controller
5 4 B-240
7 5 1 B-227
0.5 BLK
0.5 GRN/BLK
0.5 BLK
30
28
33 B-264 joint30P
Shift Lever Switch.B
0.5 LT GRN/ BLK
3 H-85
Instrument Panel (IP) Cluster.A
Fan Control Switch
Rear Dome Light Switch
Hazard Switch
Audio
0.5 LT GRN/ BLK
8 B-253
8 9 17 B-254
9 18 B-255
18 B-253
8 B-256
2 BLK
E
v
Sub Junction Block
i
P
4 5 6 7 B-258
B-48 J/C-EA 10P1
6 4 3 BLK 10 B-49 J/C-EA 10P2
10 5
3 BLK
Refer to Ground Distribution
B-53
B-52
2 BLK
Weld Splice 10
3 BLK
3 BLK
Refer to Ground Distribution
B-57
B-58
0.5 BLK
PIM.B
Data Link Connector
Brake Fluid Level Switch
J
K
L
M
0.5 LT GRN/RED
0.3 LT GRN/RED
0.5 BLK/ORN
0.5 BLK/BLU
Q
R
S
T

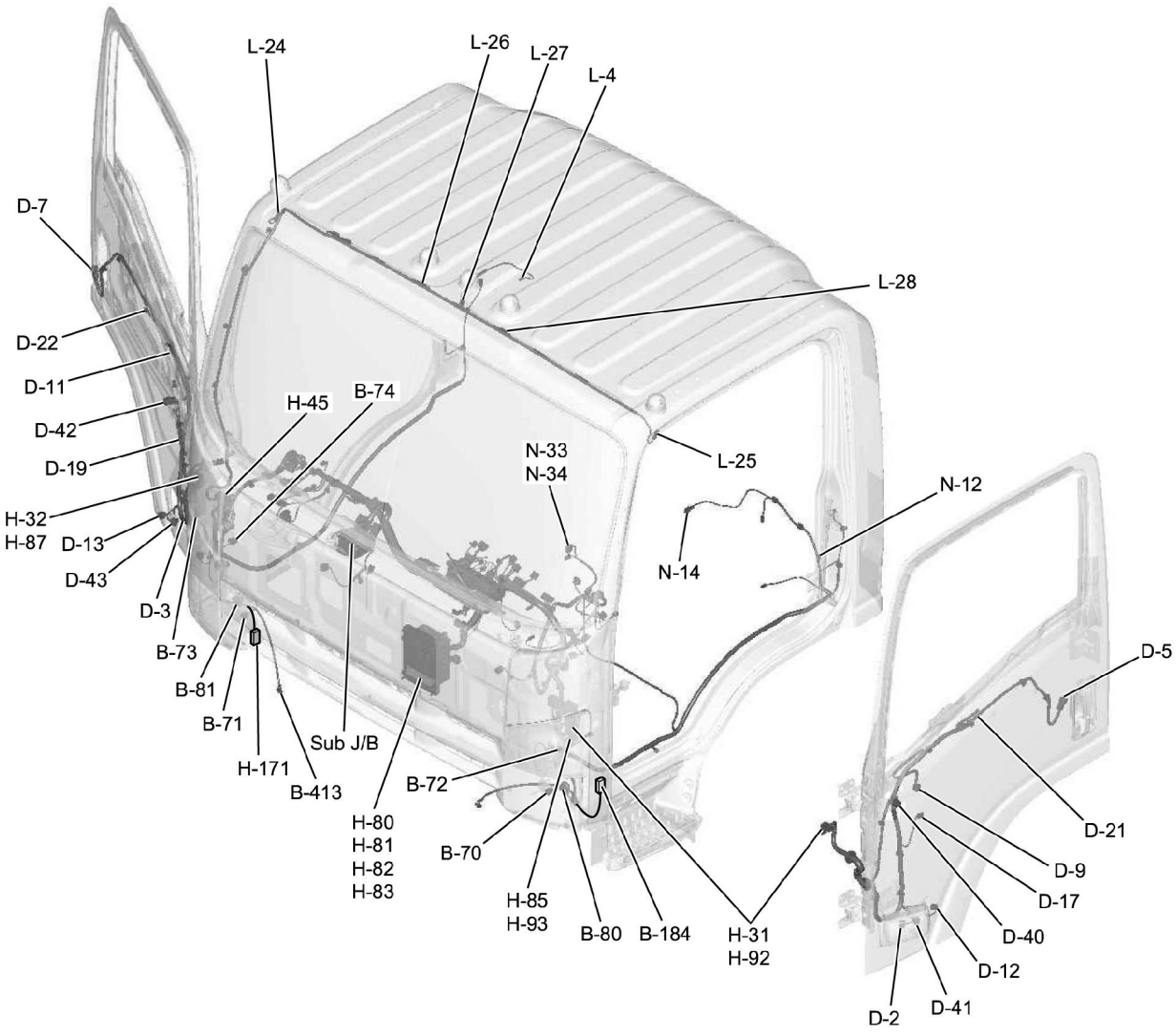

0.5 LT GRN/RED
0.5 LT GRN/BLK
N
O
U
V
HOT IN ON
F-20
ECM
10A
Cab
J/B1
Headlight
High
Relay
1
7
B-18
Rear
Combination
Light
LH
Stoplight
Switch
PIM.B
DRL
Control
Unit.A
Combination
Switch
Instrument
Panel (IP)
Cluster.B
Shift
Lever
Switch.A
0.5
RED/
BLU
6
H-66
23
H-81
3
H-93
0.5
BLK/
ORN
0.5
RED/
WHT
0.5
RED/
BLU
5
13
14
B-255
17
B-256
10
11
B-255
14
B-256
3
12
B-260
12
B-259
W
w
x
g
Sub
Junction
Block
P
i
X
8
14
15
16
17
B-258
5
6
7
8
9
B-259
0.5
BLK
5
B-22
1
H-32
1
H-31
8
B-232
Cab
J/B1
Combination
Switch
Rear
Dome
Light
Switch
Key
On
Relay
Flasher
Unit
Combination
Switch
Intermittent
Relay
Side
Turn
Signal
Light
RH
Hazard
Switch
Side
Turn
Signal
Light
LH
Charge
Relay
0.5 LT GRN/RED
0.3 LT GRN/RED
0.5 BLK/ORN
0.5 BLK/BLU
Q
R
S
T
Y
Z
AA
AB


0.5 LT GRN/RED
0.5 LT GRN/BLK
U
V
AC
Cab J/B1
TCM Relay
6 B-232
5 B-241
Illumination Control Switch
1
3 B-241
0.5 BLK
0.5 BLK/ ORN
3
B-48 Earth Joint 10P1
10
3 BLK
Refer to Ground Distribution
B-53
Audio
Shift Lever Switch.B
AD
0.5 LT GRN/ RED
1 H-85
0.5 BLK/ORN
0.5 BLK/ORN
W
0.5 LT GRN/ RED
0.3 LT GRN/ RED
0.5 LT GRN/ RED
0.5 LT GRN/ RED
3 4 12 B-257
13
17 B-253
7 B-255
5 B-256
m
aa
Sub Junction Block
X
i
14 15 16 17 18 B-259 6 7 8 9 15 B-260
0.5 BLK
0.5 BLK
0.5 BLK
6 H-45
0.5 BLK
0.5 BLK
8 B-20
0.5 BLK
0.5 BLK
4 B-232
0.5 BLK
0.5 BLK
0.5 BLK
Cab J/B1
Cab J/B1
Stoplight Switch
Wiper Switch
J/C-5
Power Window Relay
Mirror Heater Switch
Instrument Panel (IP) Cluster.B
TCM Relay
Power Accessory Relay
Cigarette Lighter Relay
Instrument Panel (IP) Cluster.A
Y
Z
AA
AB
0.5 LT GRN/RED
0.3 LT GRN/RED
0.5 BLK/BLU
AE
AF
AG

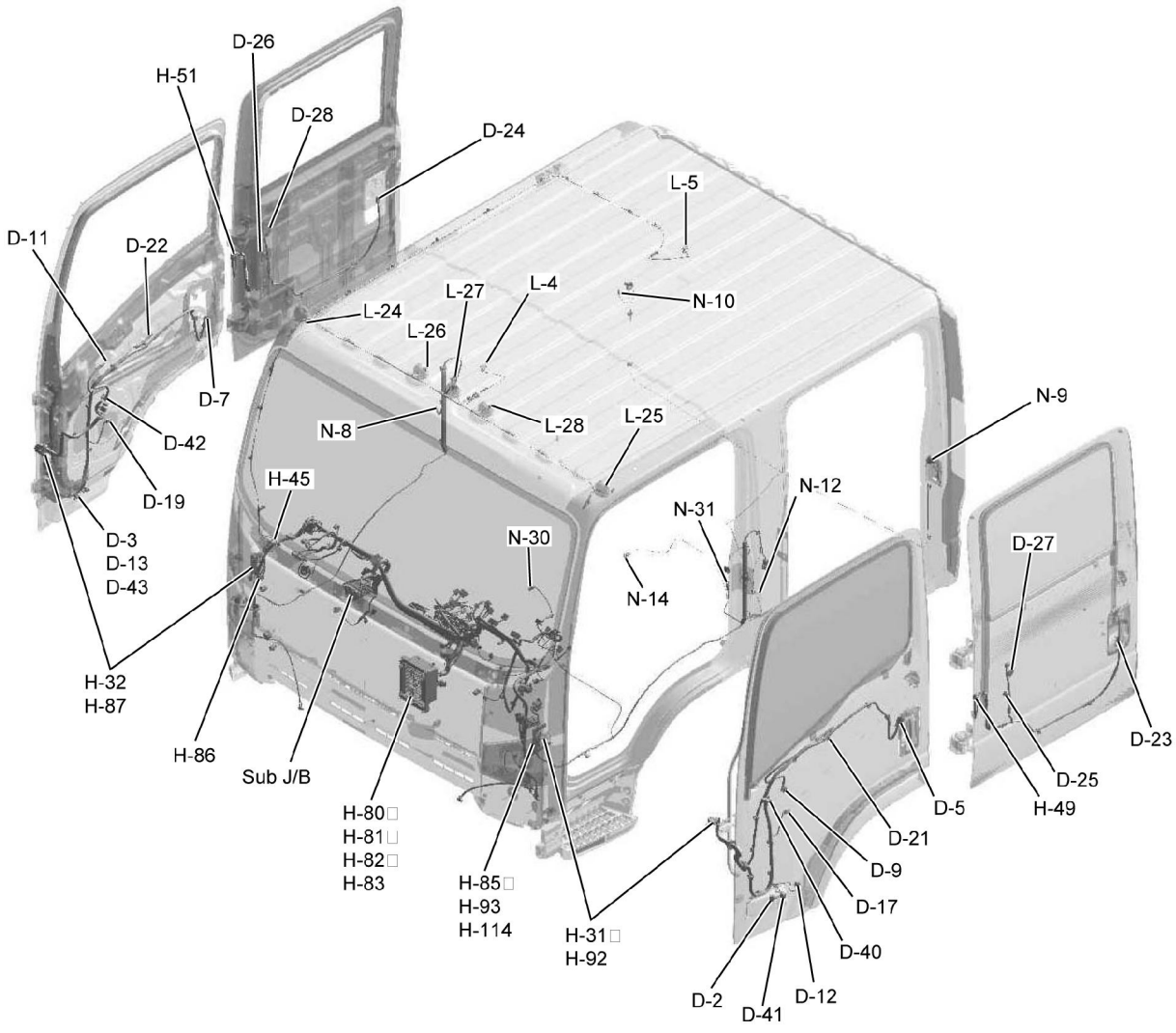

AC
HOT IN ON
HOT WHEN LIGHTING SWITCH CLOSED
HOT IN ACCESSORY
Cab J/B1
F-21 Meter 10A
F-28 Illuminations 10A
F-24 Audio, ACC 15A
11 B-23
10 B-18
2 B-22
Hazard Warning Flasher Switch
Rear Dome Light Switch
Fan Control Switch
Mirror Heater Switch
Instrument Panel (IP) Cluster.A
AD
0.5 LT GRN/ RED
0.3 LT GRN/ RED
3 4 12 B-253
3 4 12 B-255
1 2 3 4 B-256
bb
Sub Junction Block
dd
cc
9 B-258
17 18 B-260
6 8 15 16 17 B-255
6 B-256
0.5 GRN/ YEL
0.5 RED/ YEL
10 H-81
0.85 RED/ YEL
Flasher Unit
Cornering Light Relay
Audio
Cigarette Lighter Relay
Power Accessory Relay
PIM.B
PCM.A
AE
AF
AG
0.5 BLK/BLU
AH


HOT AT ALL TIMES
Cab J/B1
F-22 ECU (Batt) 10A
TCM Relay
Relay Box
Rear Dome Light Relay
3 B-22
2 B-232
Instrument Panel (IP) Cluster.A
PCM.A
PIM.B
0.85 YEL
Rear Dome Light Switch
Rear Dome Light Switch
0.85 BLK/ BLU
1.25 BLK/ BLU
0.5 YEL
18 H-81
20 H-80
0.5 BLK/ BLU
0.85 BLK/ BLU
0.5 BLK/ BLU
0.5 BLK/ BLU
0.5 BLK/ BLU
0.5 BLK/ BLU
0.5 YEL
0.5 YEL
0.5 YEL
1
10 B-253
7
8
9
16
1
2
10 B-257
k
l
Sub Junction Block
n
o
5
6
13
11
14
15 B-257
0.5 VIO/ WHT
0.5 VIO/ WHT
0.5 VIO/ WHT
0.5 RED/ YEL
0.5 RED/ YEL
0.5 RED/ YEL
2 B-39
10 B-20
1 B-184
2 B-263
Diode 1
Cab J/B1
Vacuum Pump Relay
Vacuum Tank Switch
Diode
1 B-39
1 B-263
0.5 ORN/ BLU
0.5 RED/ YEL
Cornering Light Relay
DRL Control Unit.A
Combination Switch
Instrument Panel (IP) Cluster.A
AH

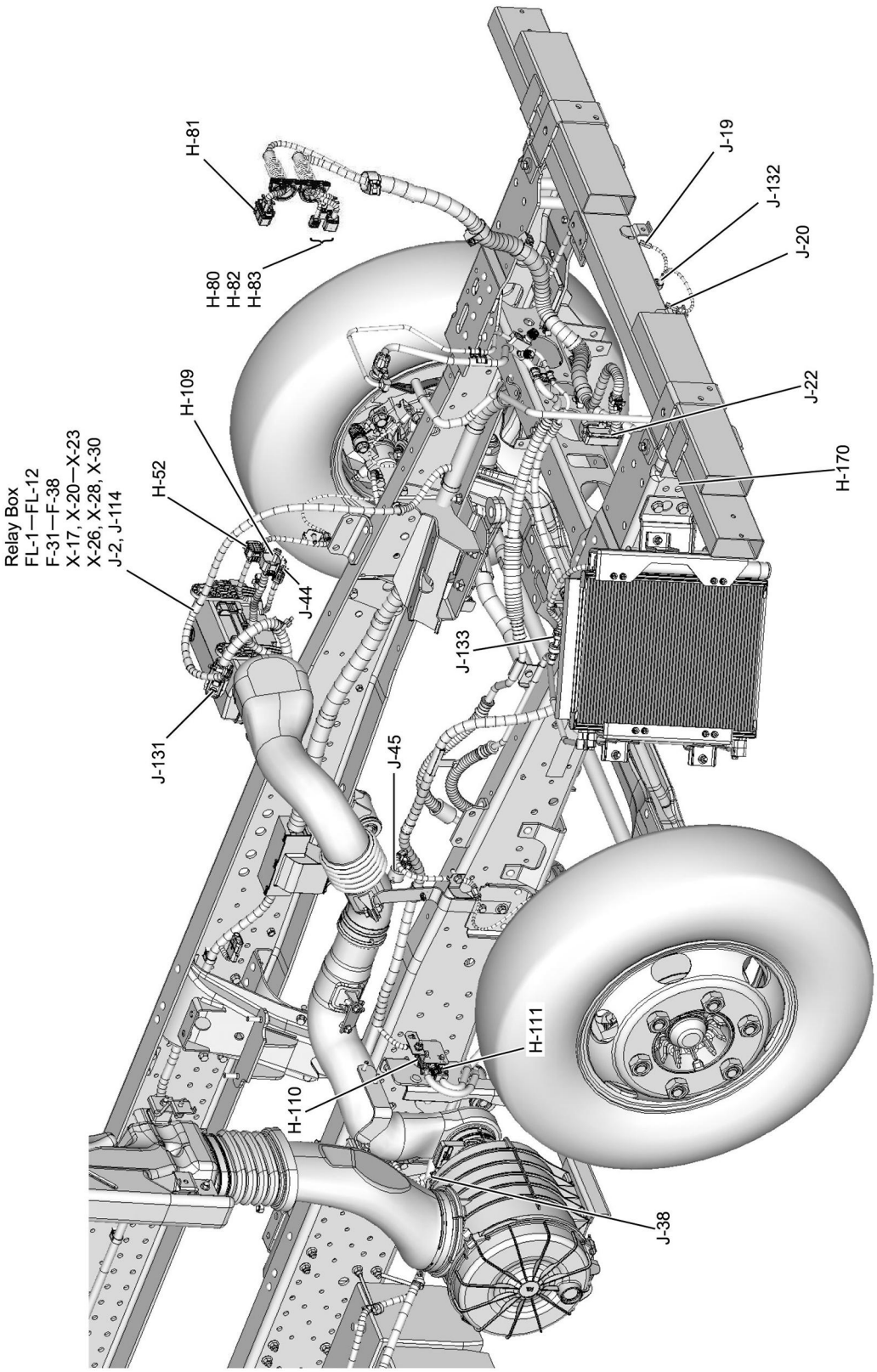
Cab Harness (S-CAB) Routing



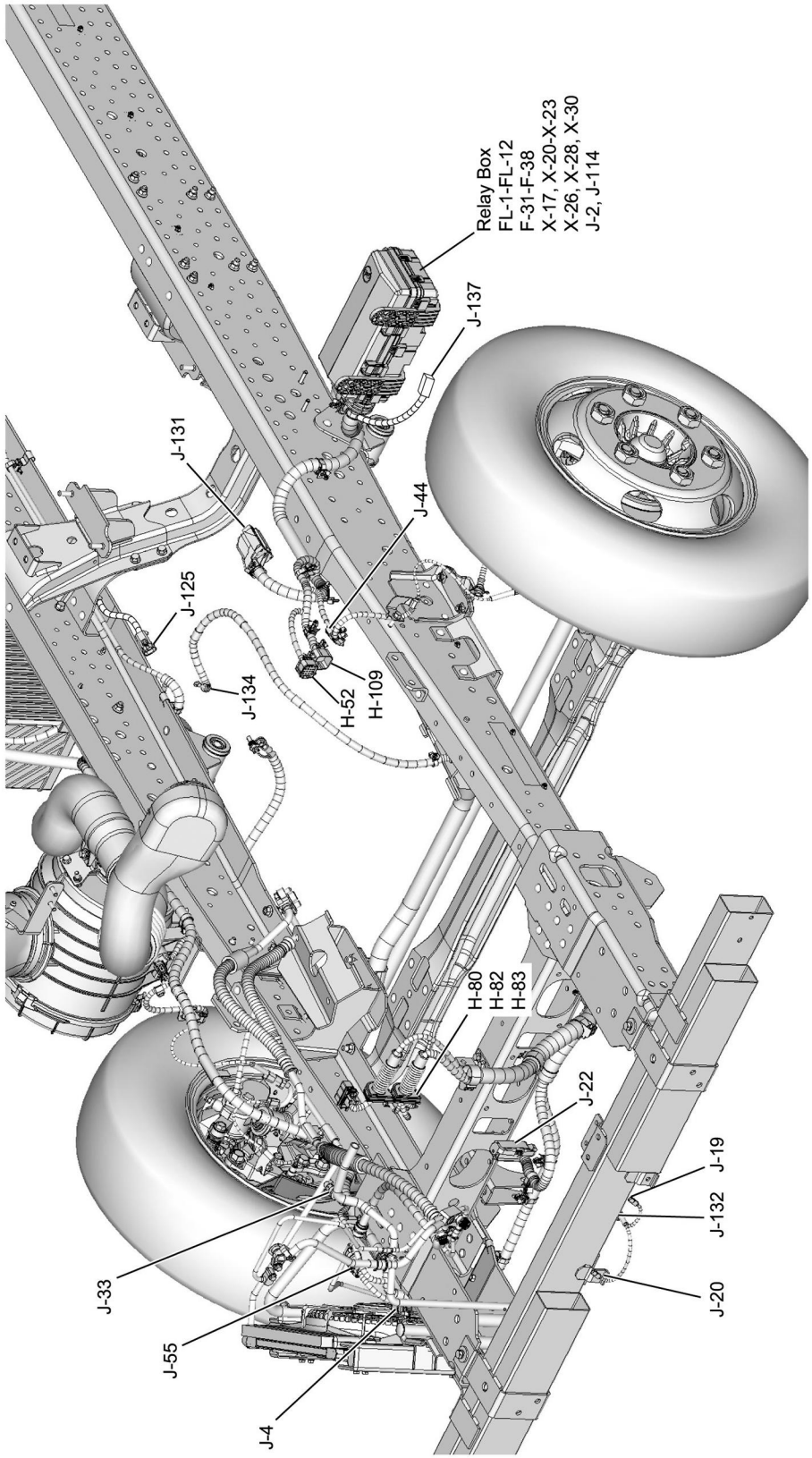
Cab Harness (C-CAB) Routing



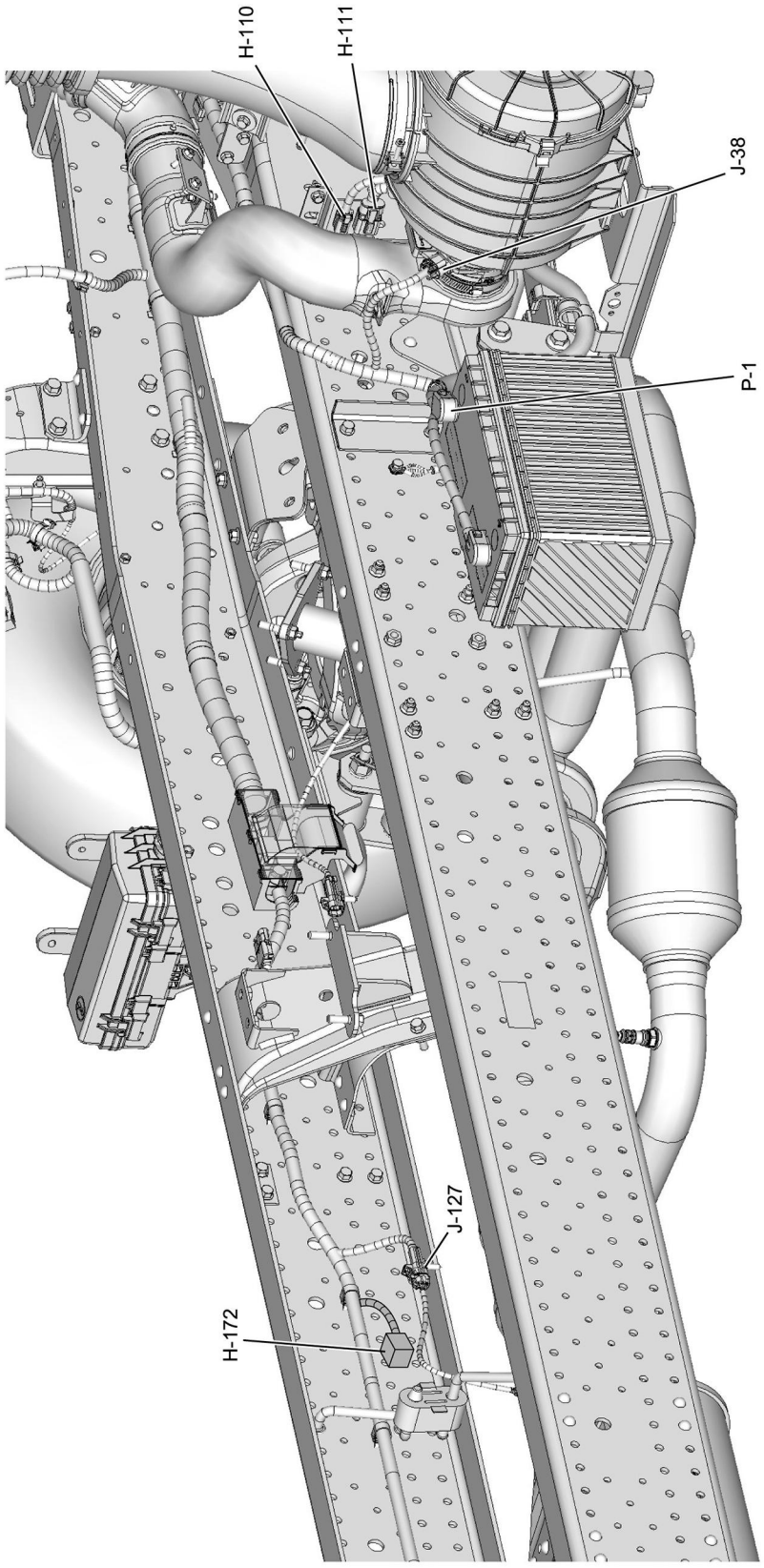
Frame Harness Routing (1 of 6)



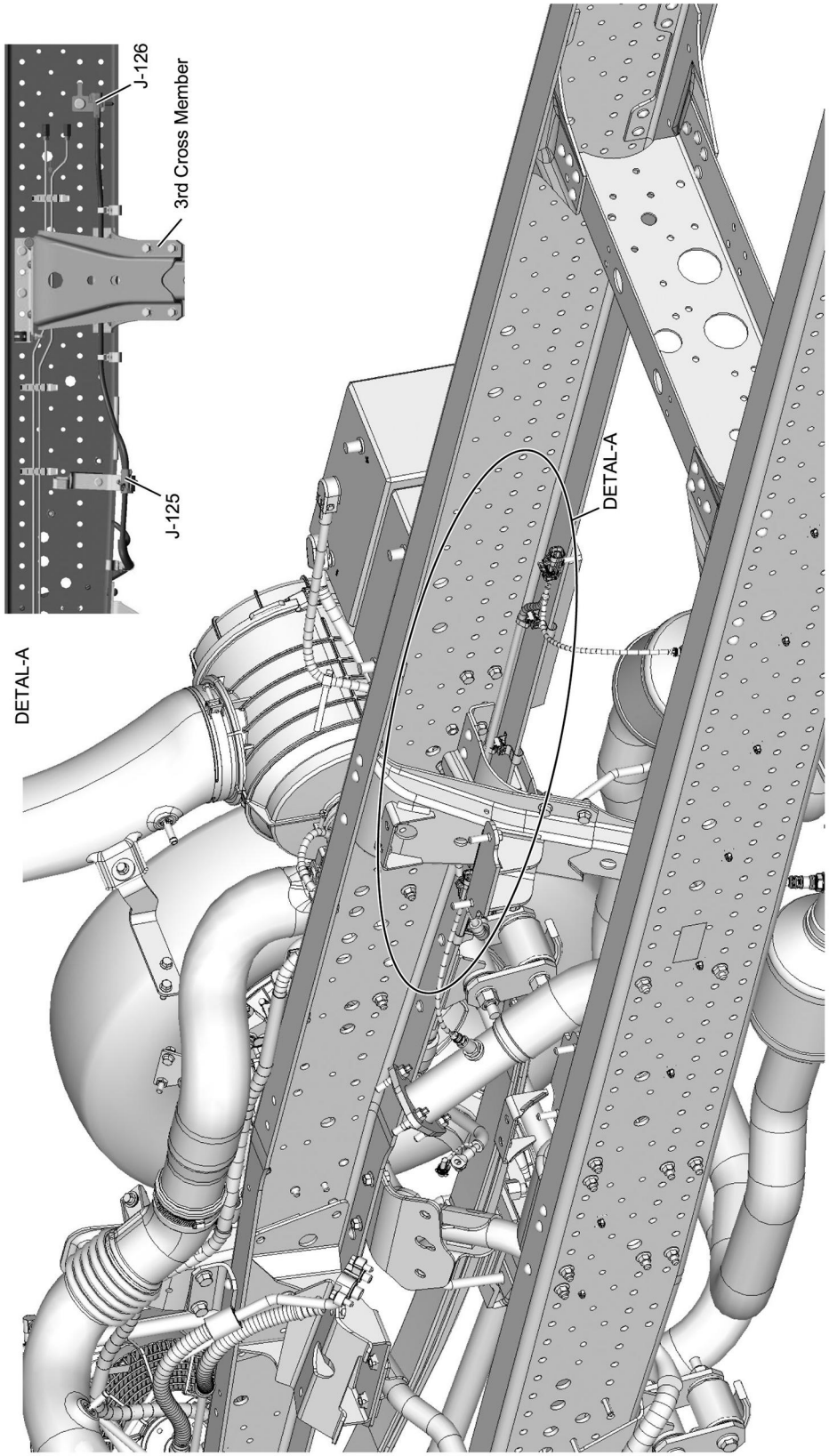
Frame Harness Routing (2 of 6)



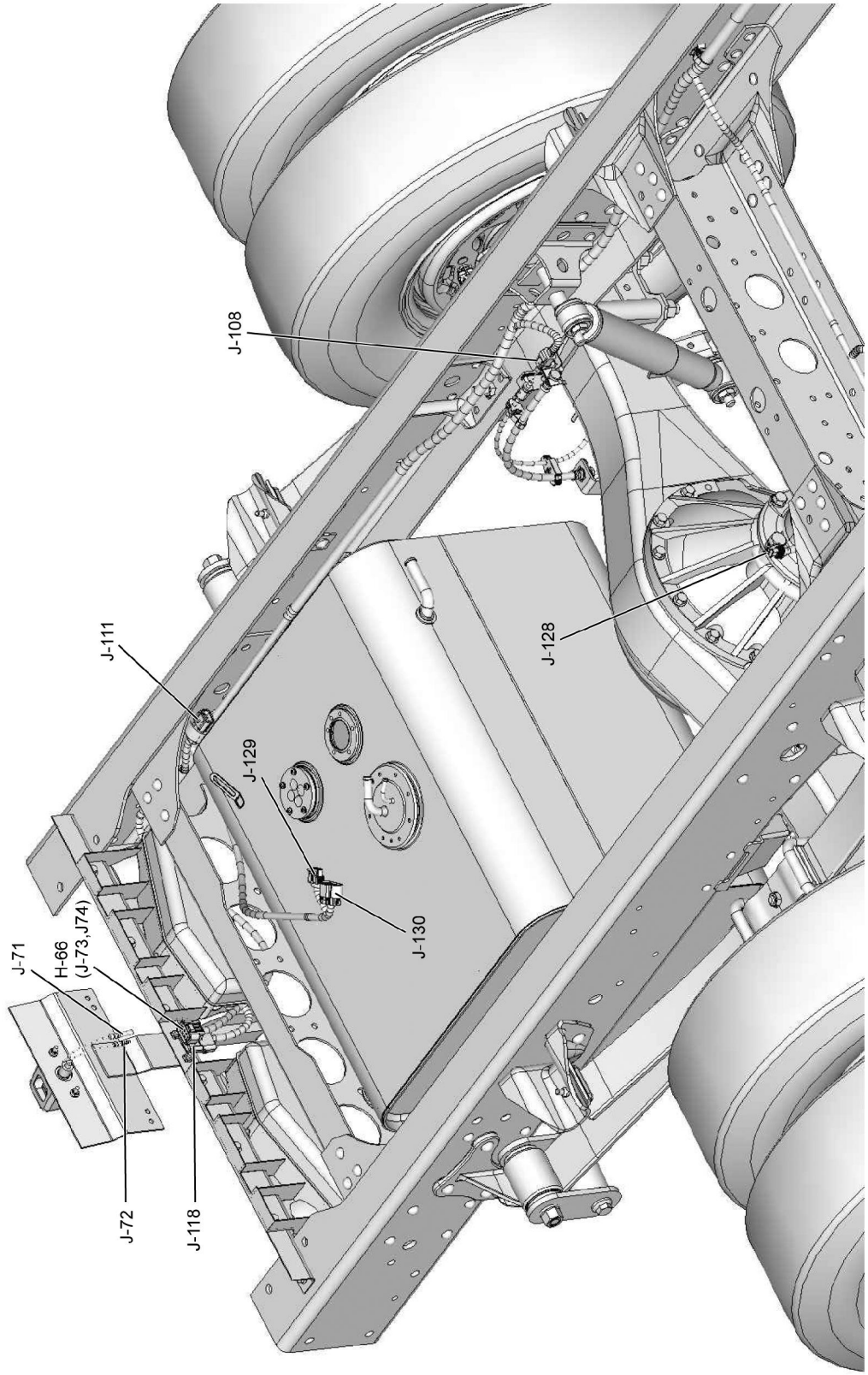
Frame Harness Routing (3 of 6)



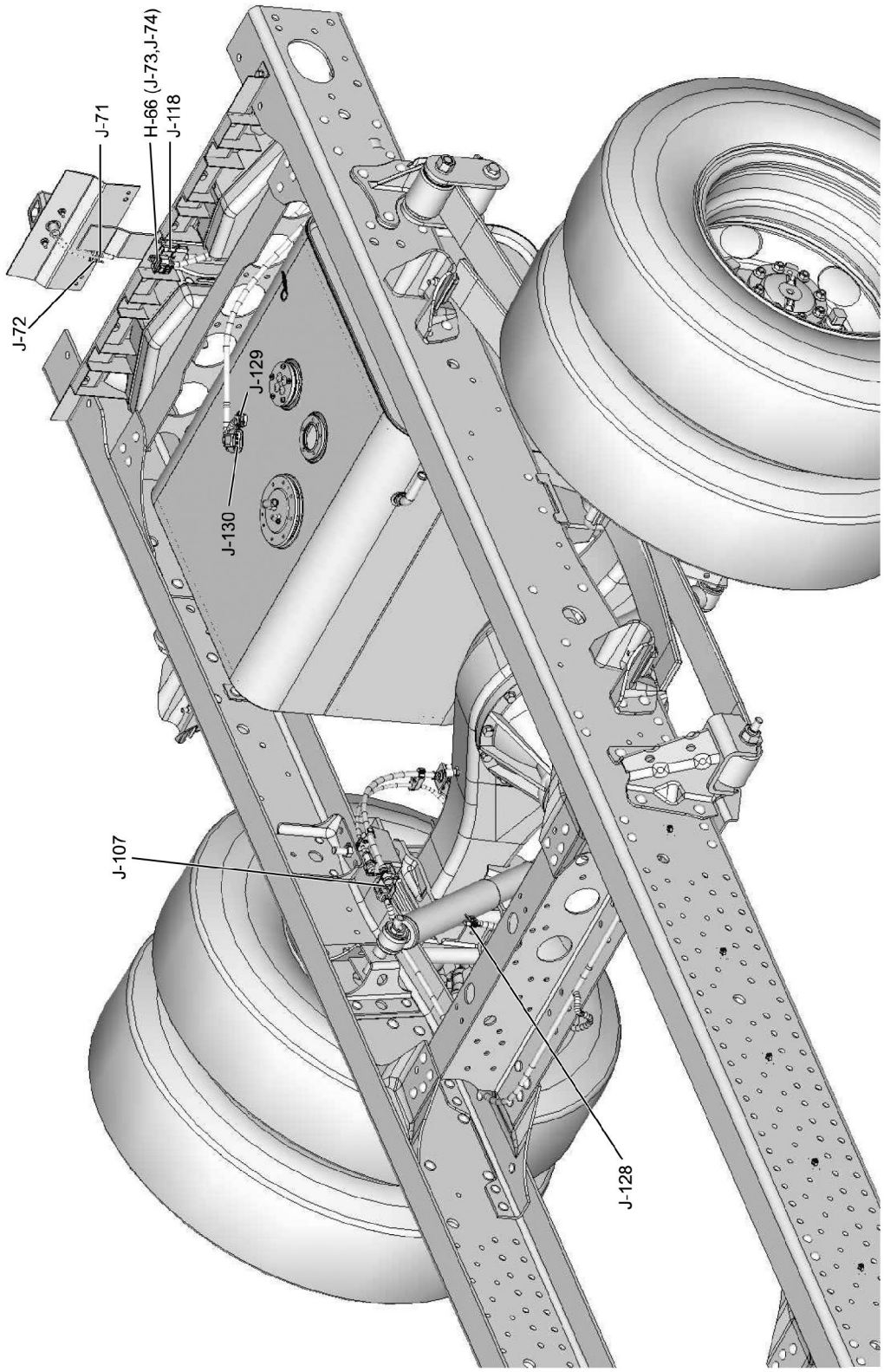
Frame Harness Routing (4 of 6)



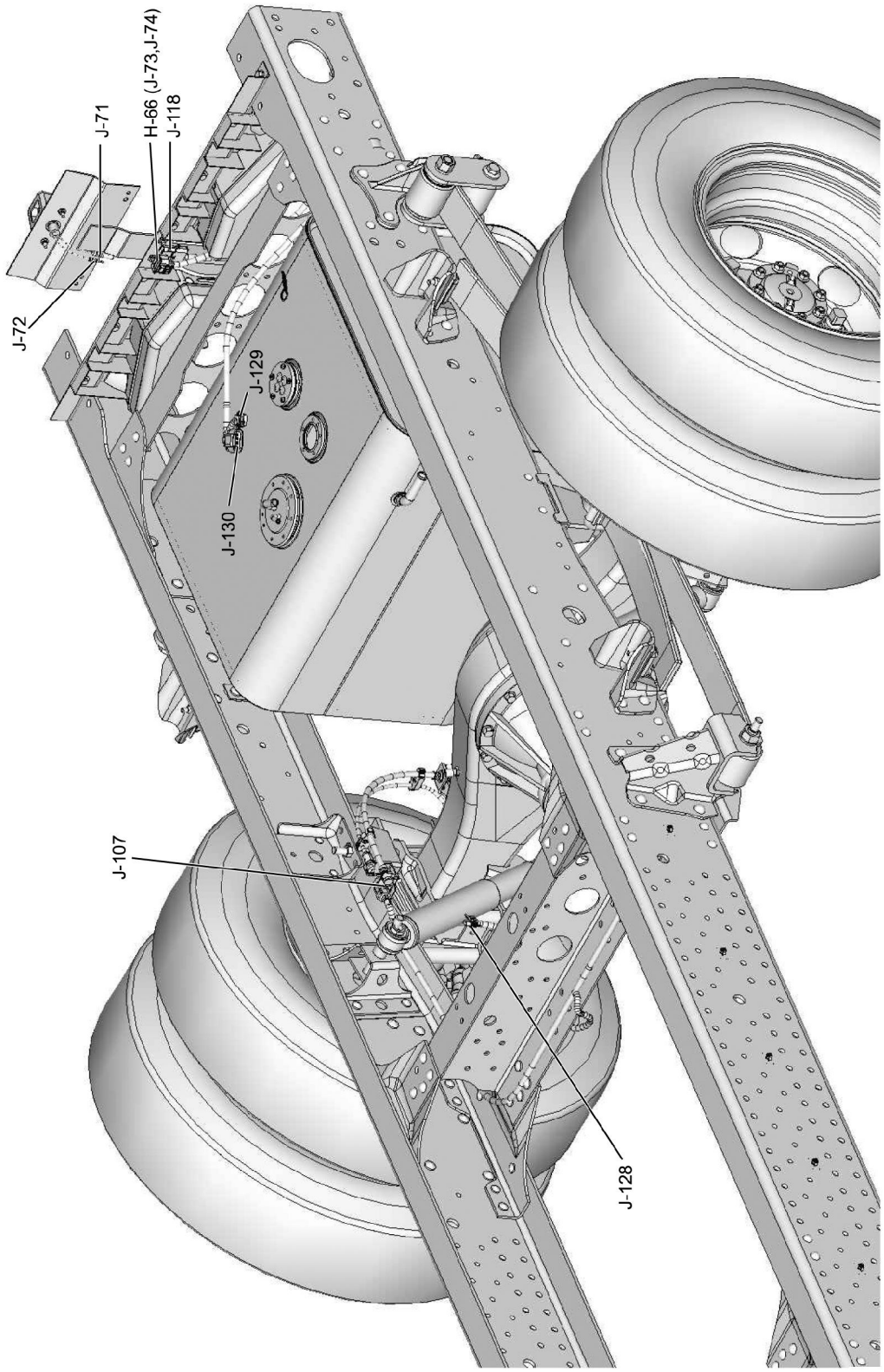
Frame Harness Routing (5 of 6)



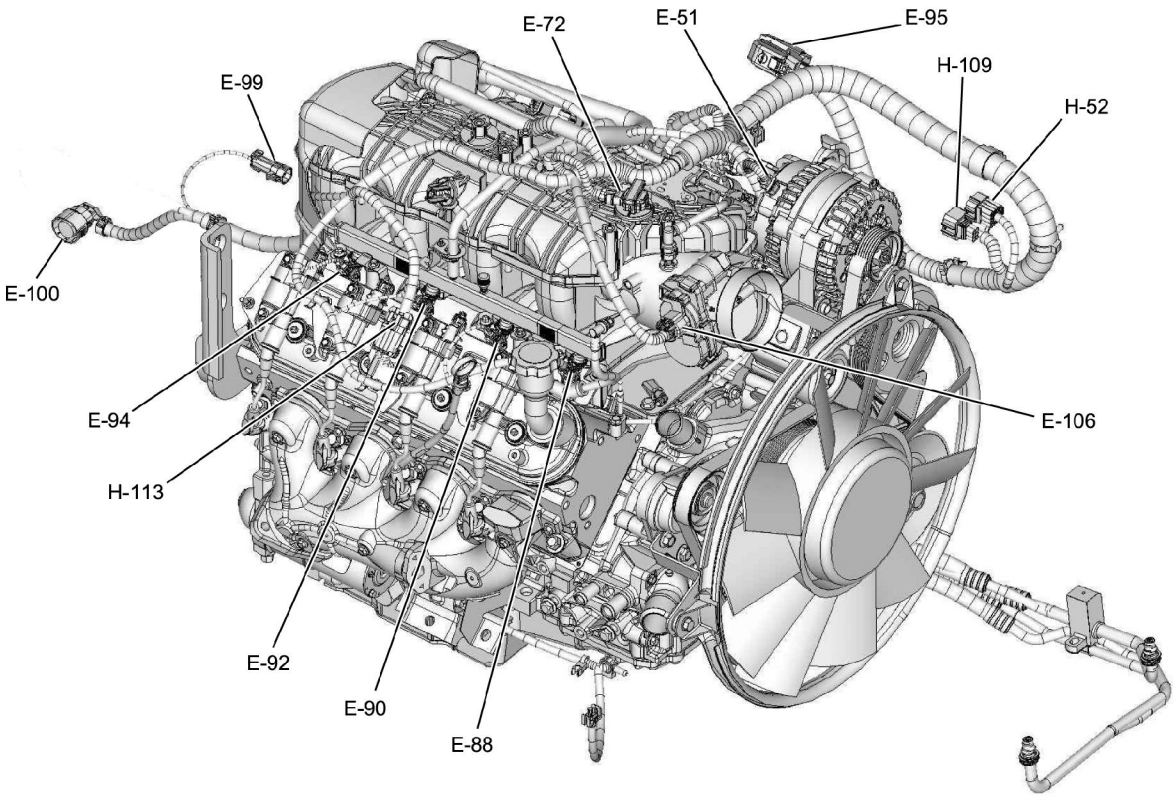
Frame Harness Routing (6 of 6)



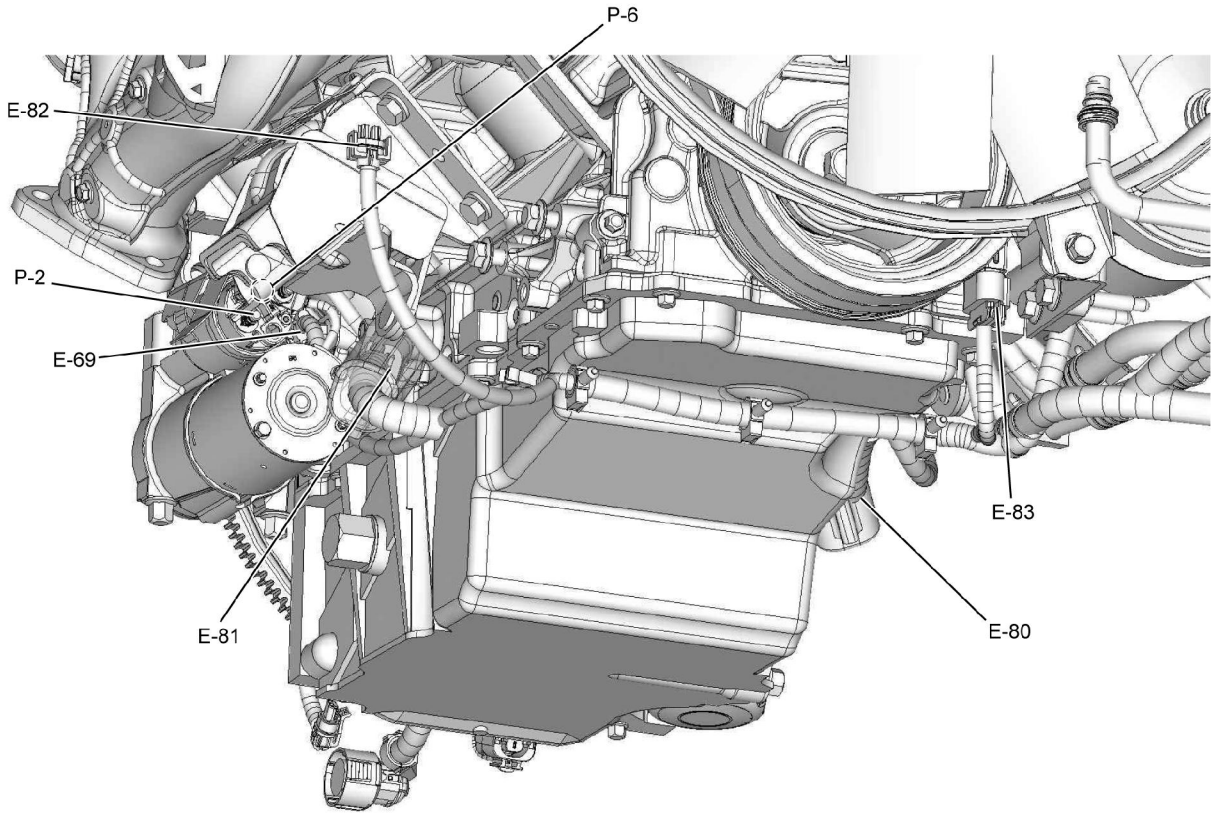
Engine Harness Routing (1 of 4)

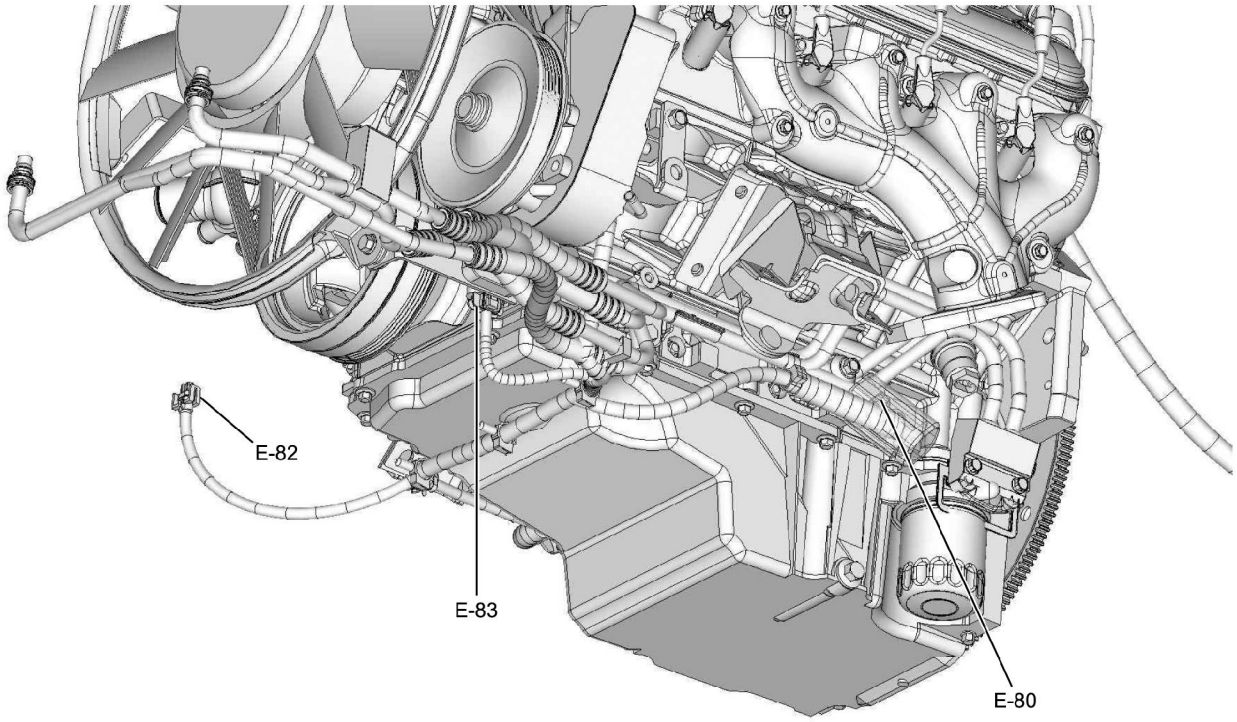


Engine Harness Routing (2 of 4)

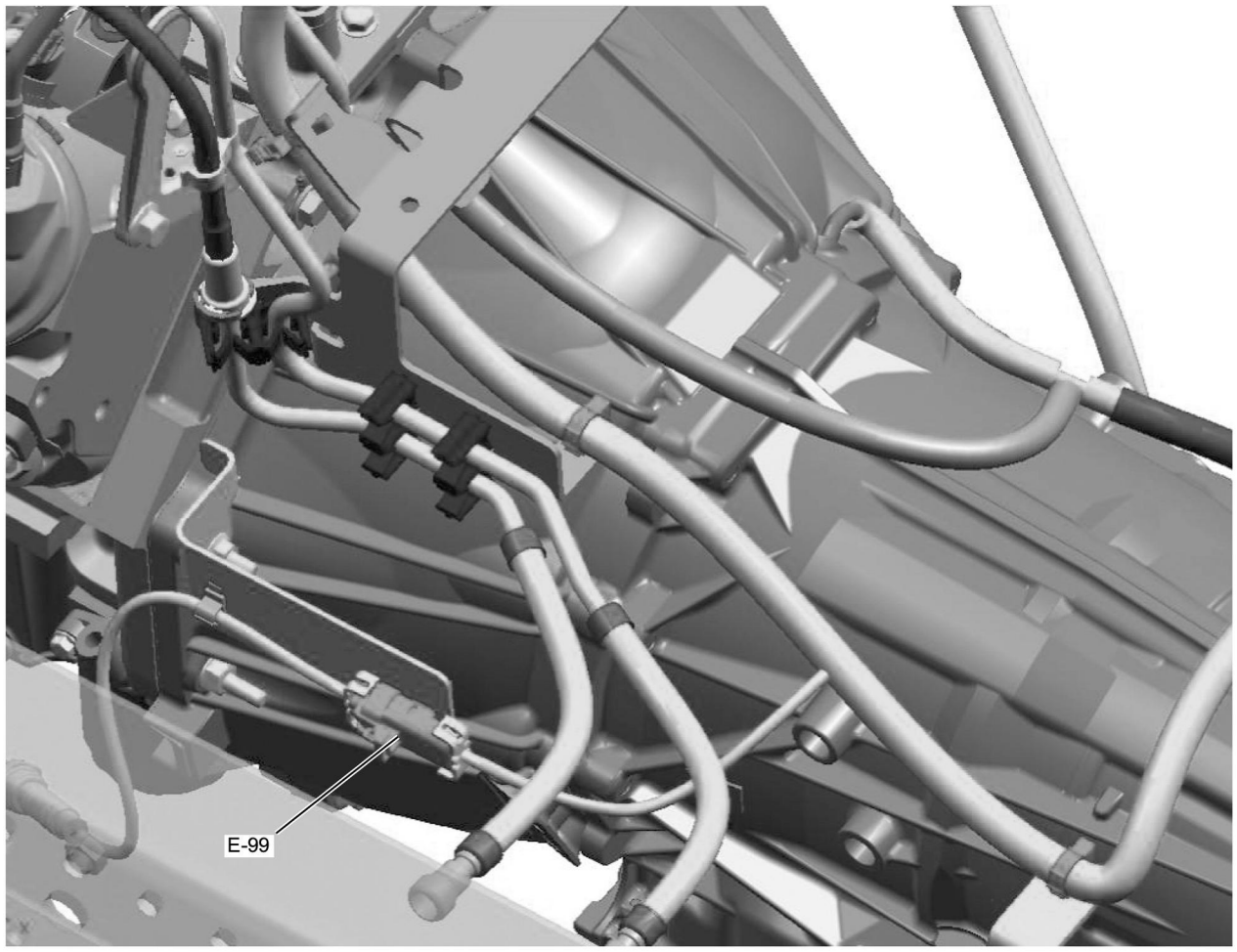


Engine Harness Routing (3 of 4)

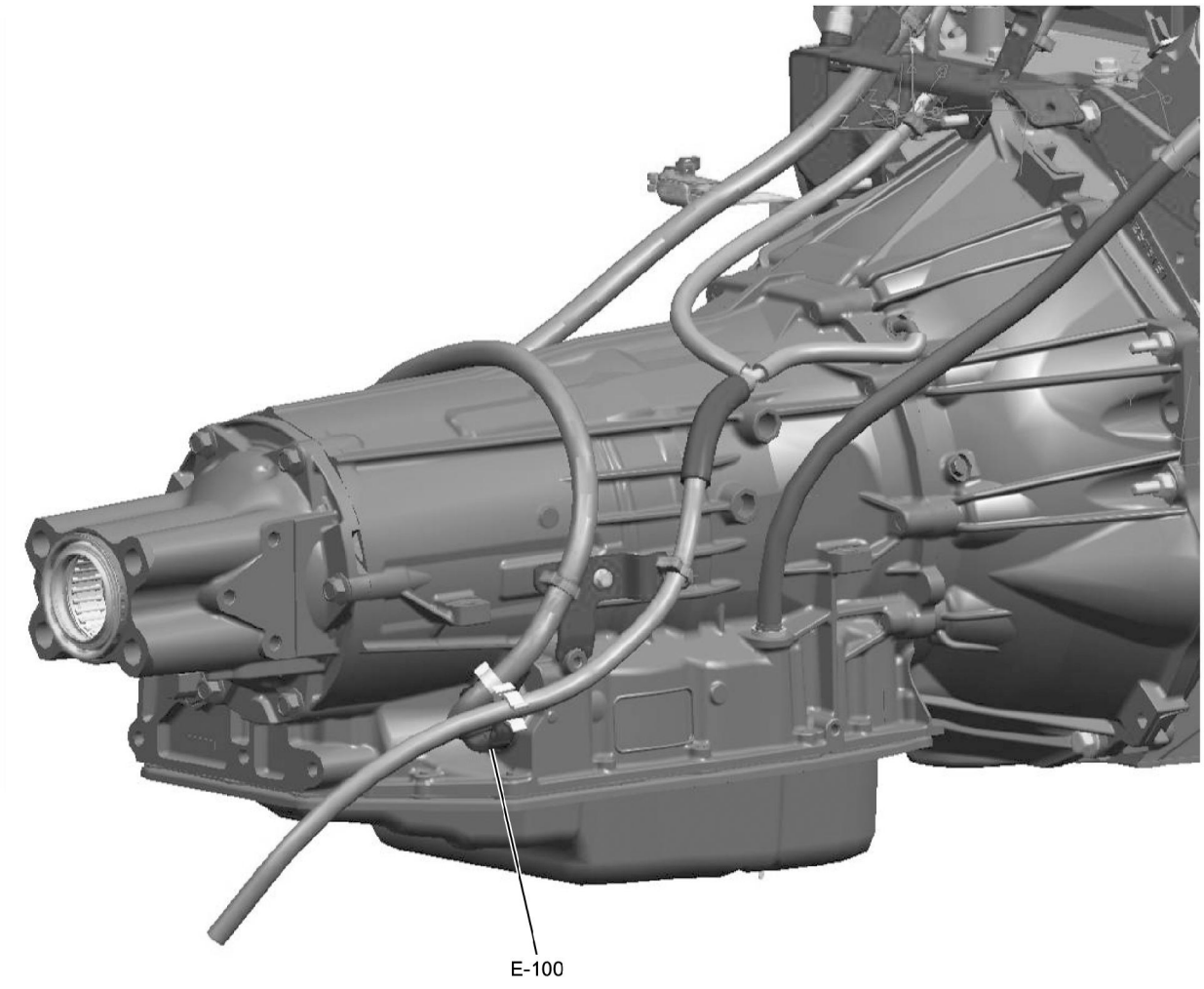



E-82
E-83
E-80

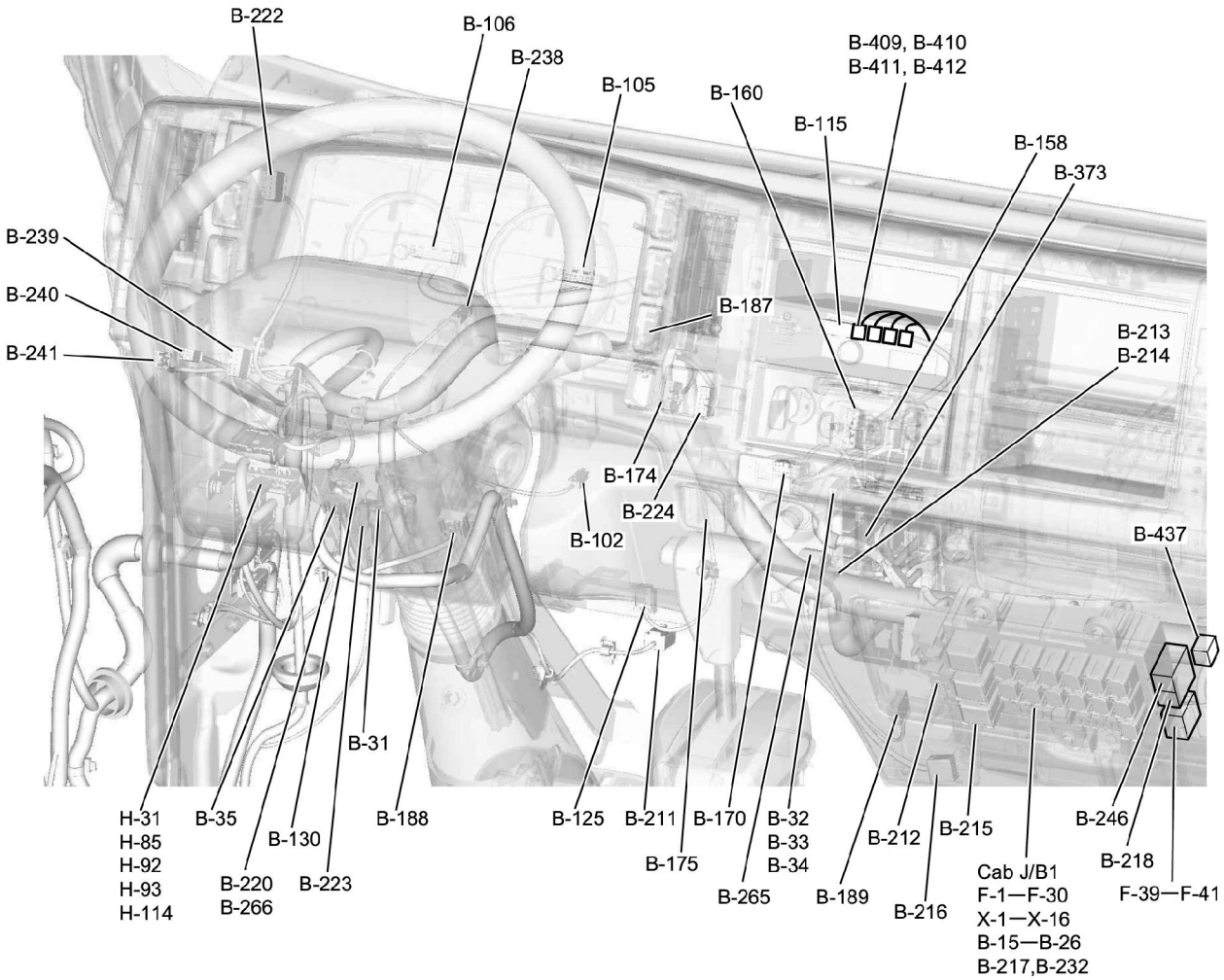
Mission Harness Routing (1 of 2)



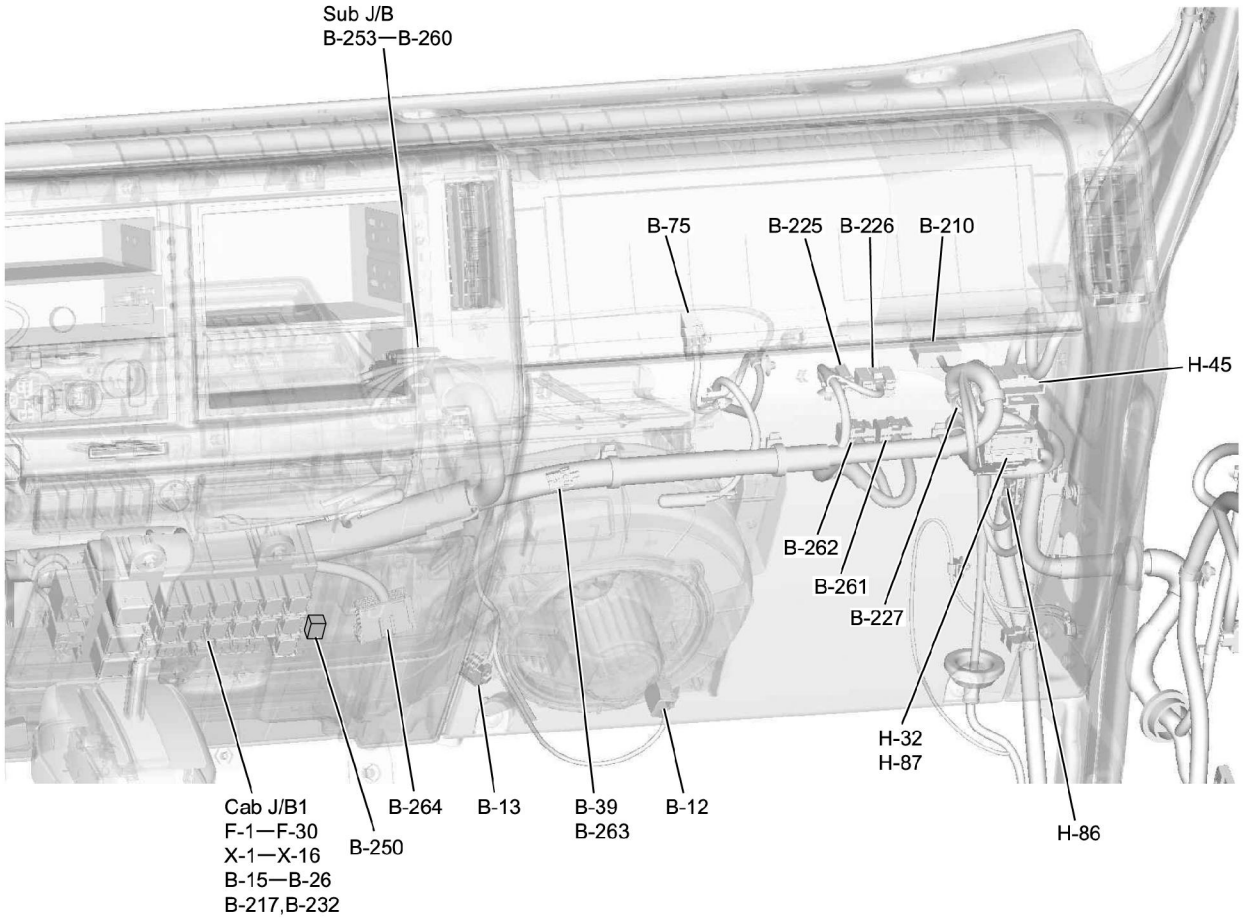
Mission Harness Routing (2 of 2)



Instrument Panel Harness Routing (1 of 2)

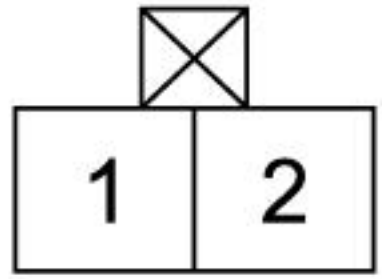
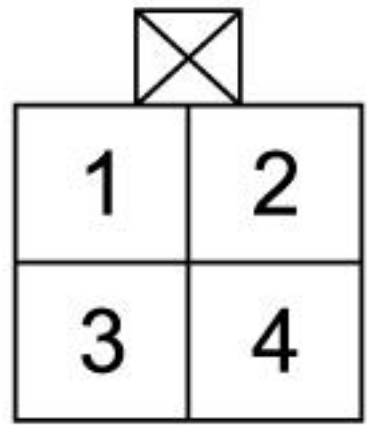


Instrument Panel Harness Routing (2 of 2)



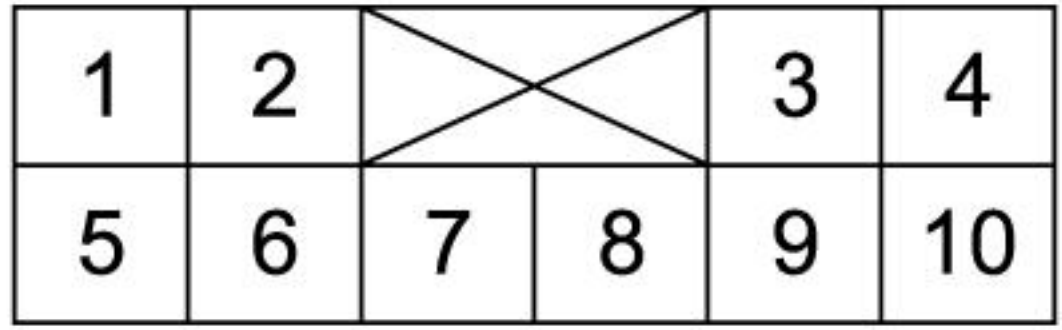
Visual Identification

Connector List

No.	Connector Face
B-12 White	 Blower Motor
B-13 White	 Blower Resistor

B-15

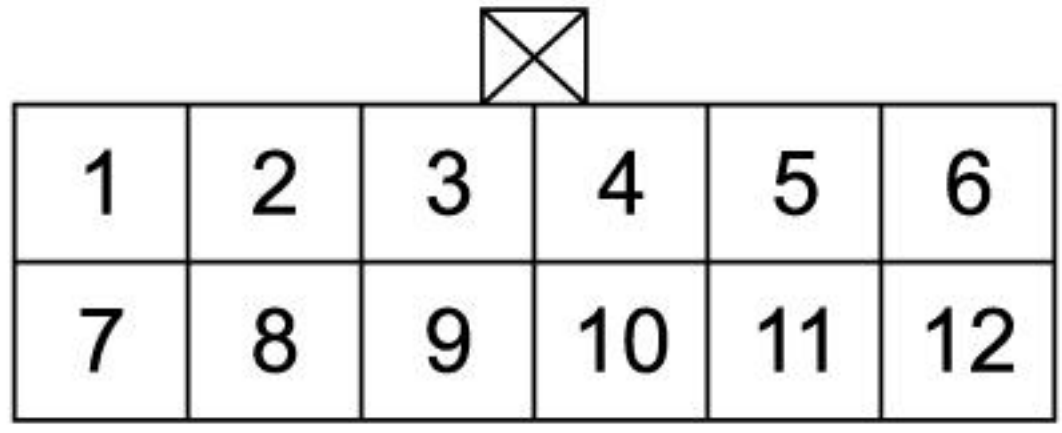
Blue



Cab J/B1.A

B-16

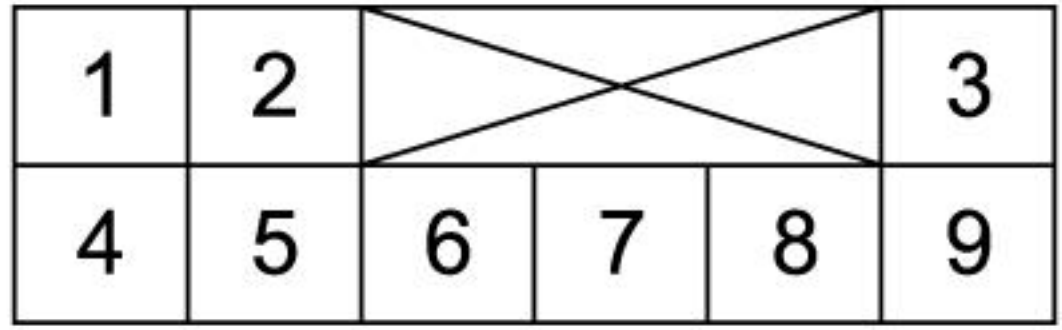
White



Cab J/B1.B

B-17

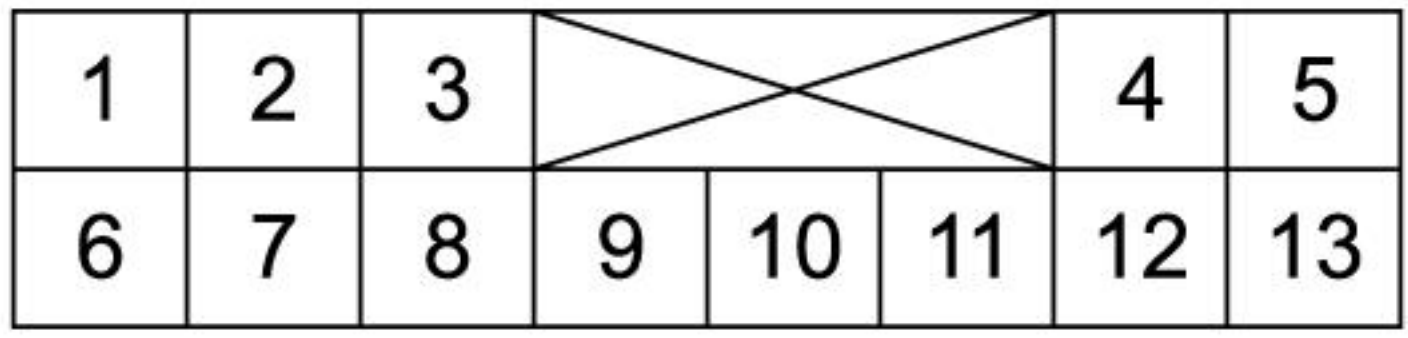
White



Cab J/B1.D

B-18

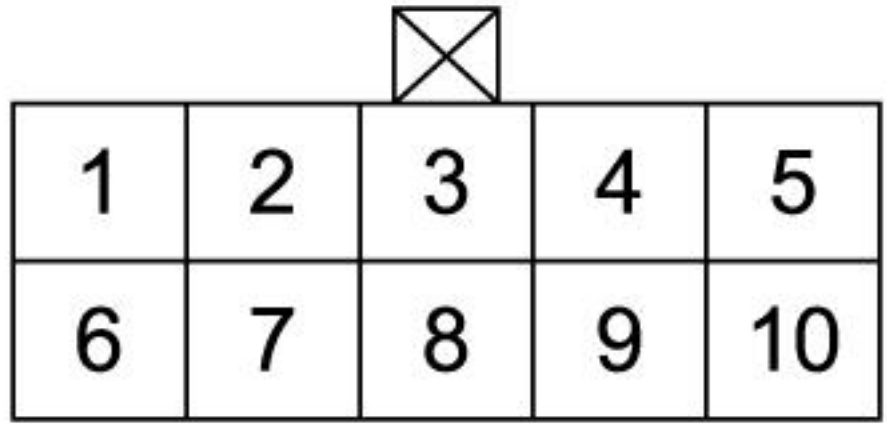
White



Cab J/B1.E

B-19

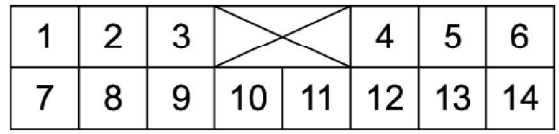
White



Cab J/B1.F

B-20

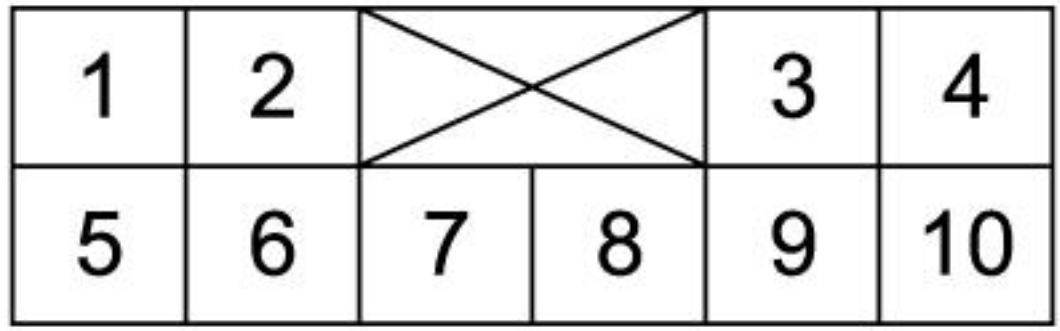
White



Cab J/B1.G

B-21

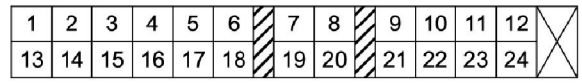
White



Cab J/B1.H

B-22

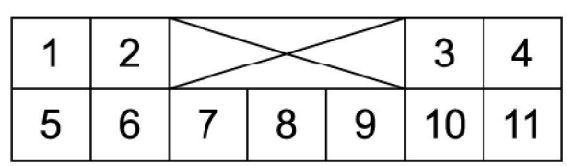
White



Cab J/B1.J

B-23

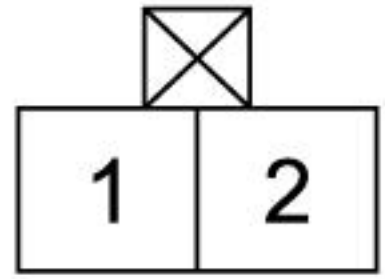
White



Cab J/B1.K

B-24

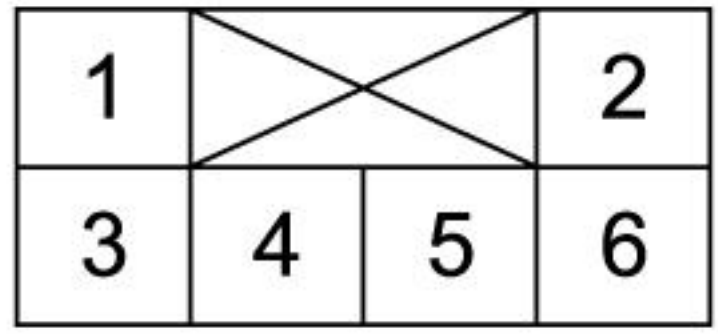
White



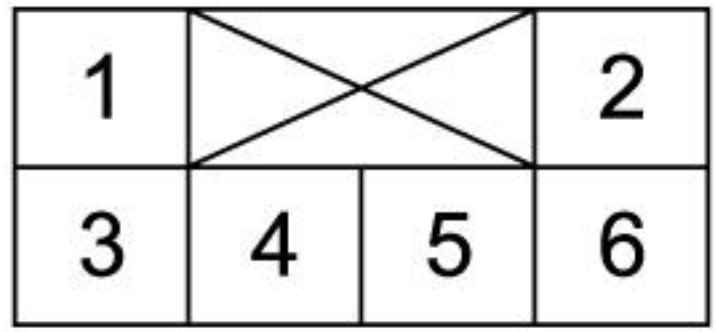
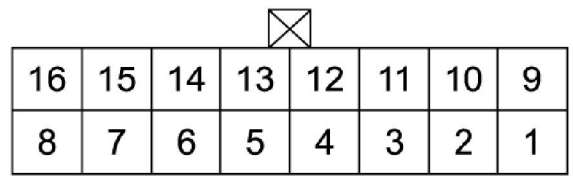
Cab J/B1.L

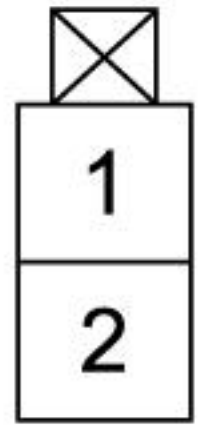
B-25

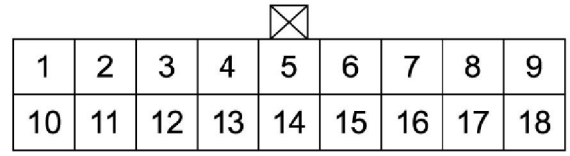
White

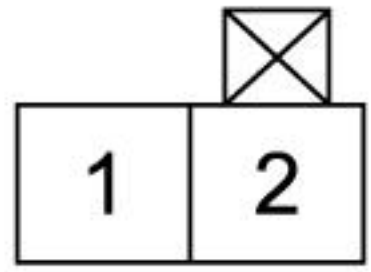
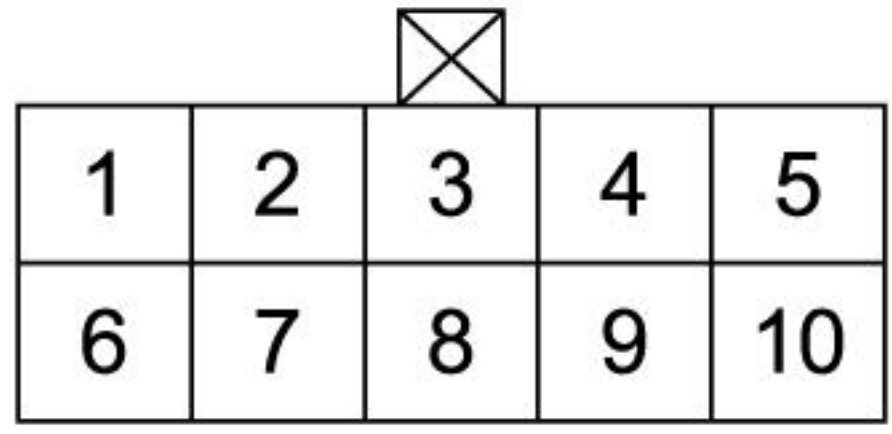


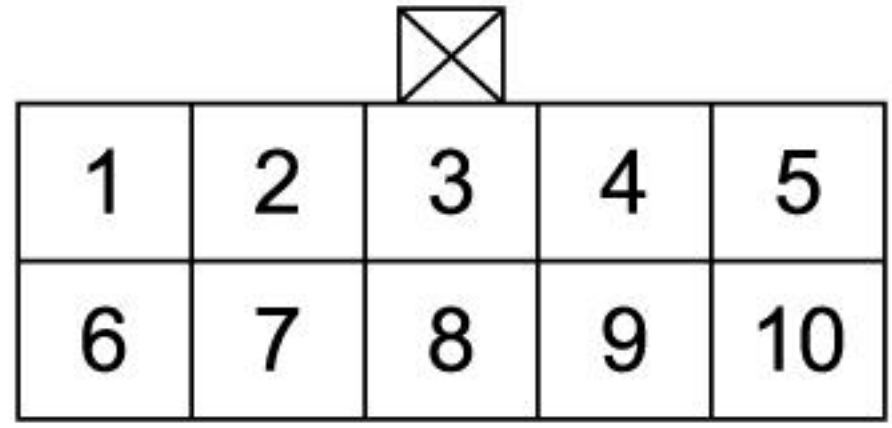
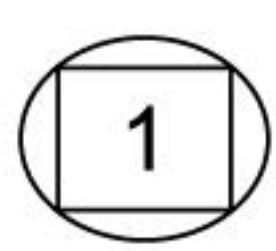
Cab J/B1.N

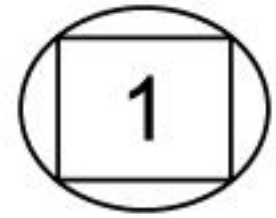
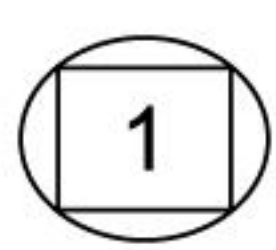
B-26 White	 Cab J/B1.P
B-31 Gray	 Data Link Connector

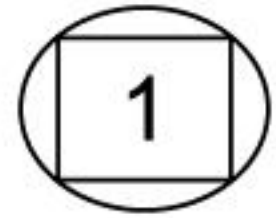
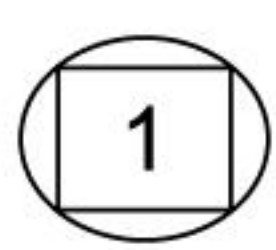
B-32 White	 Cigarette Illumination
B-33 White	 Cigarette Lighter.A

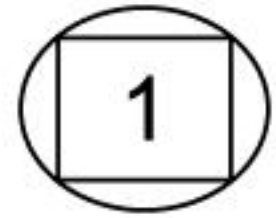
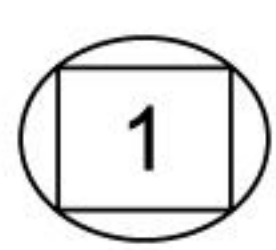
B-34 Black	 Cigarette Lighter.B
B-35 White	 Combination Switch

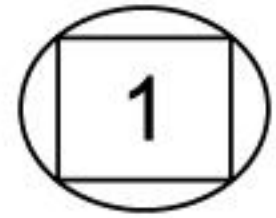
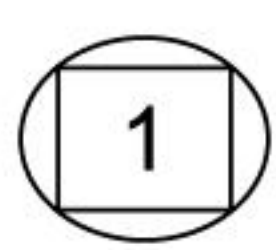
B-39 Black	 Diode 1
B-48 White	 J/C-EA10P1

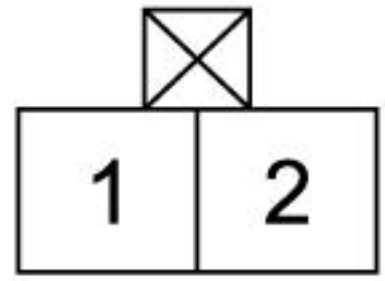
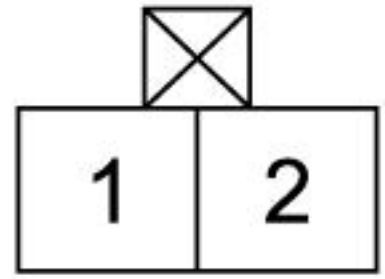
B-49 White	 J/C-EA10P2
B-51	 Cab Front (RH)

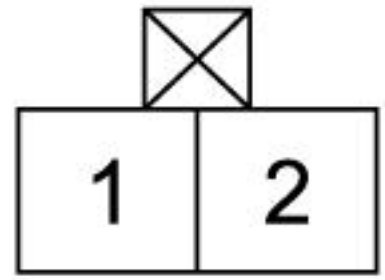
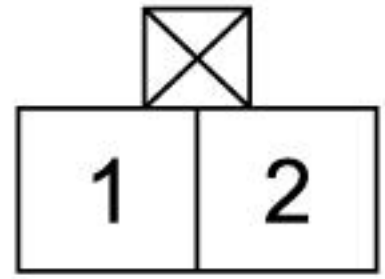
B-52	 Cab Front (LH)
B-53	 Cab Front (RH)

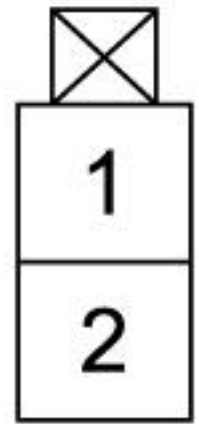
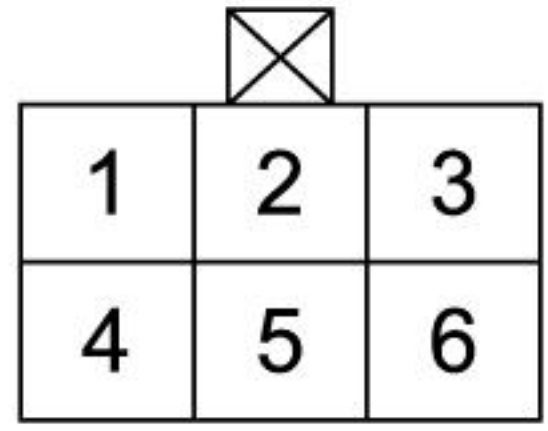
B-54	 Cab Front (RH)
B-56	 Cab Front (LH)

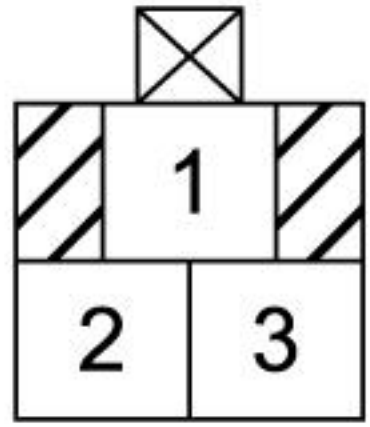
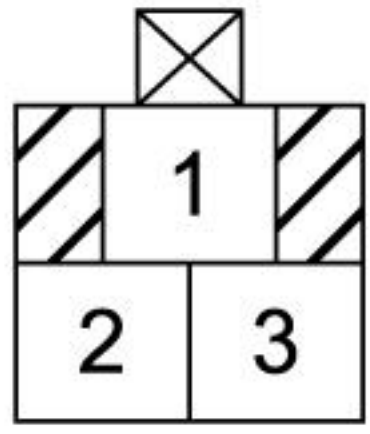
B-57	 Cab Front (LH)
B-58	 Cab Front (RH)

B-59	 Cab Front (RH)
B-60	 Cab Front (LH)

B-70 Gray	 Frontt Position Light (LH)
B-71 Gray	 Front Position Light (RH)

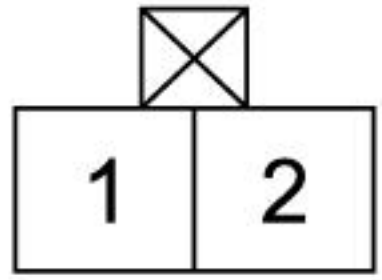
B-72 Gray	 Front Turn Signal Light (LH)
B-73 Gray	 Front Turn Signal Light (RH)

B-74 White	 Front Washer Motor
B-75 White	 Front Wiper Motor

B-80 Black	 Headlight (LH)
B-81 Black	 Headlight (RH)

B-102

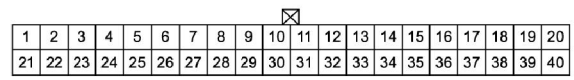
Gray



Brake Fluid Level Switch

B-105

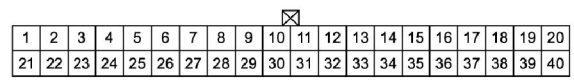
White



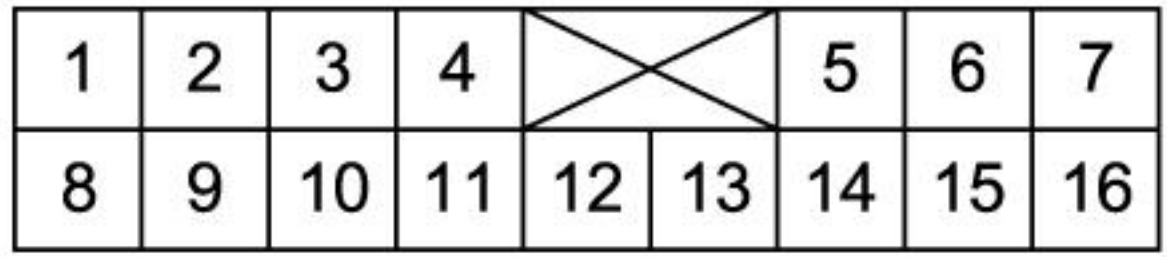
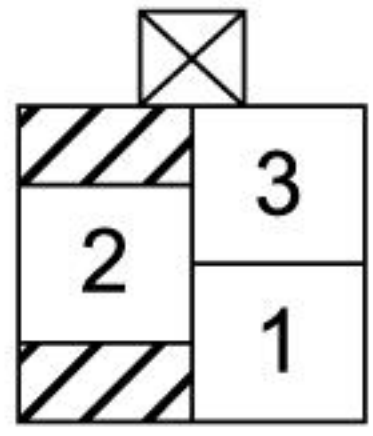
Instrument Panel (IP) Cluster.A

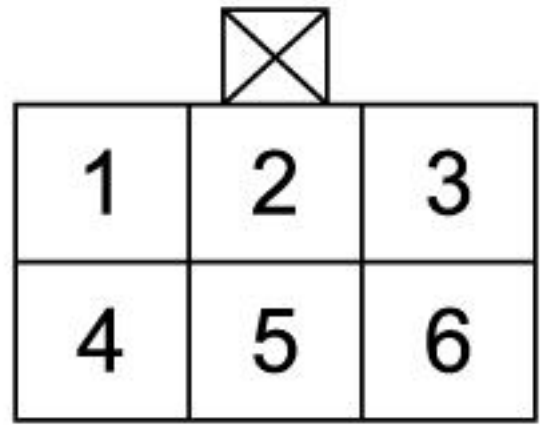
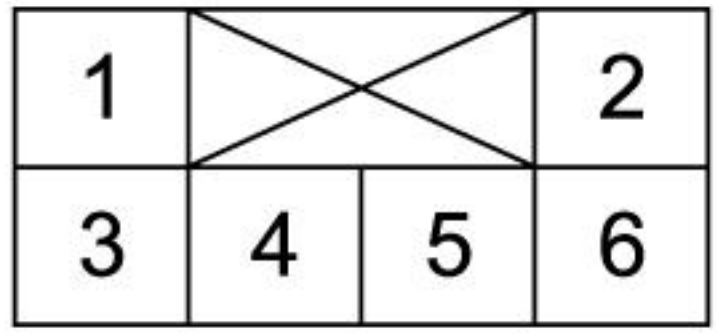
B-106

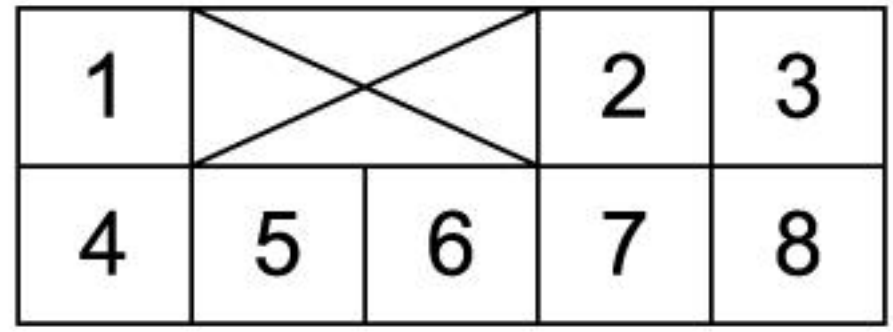
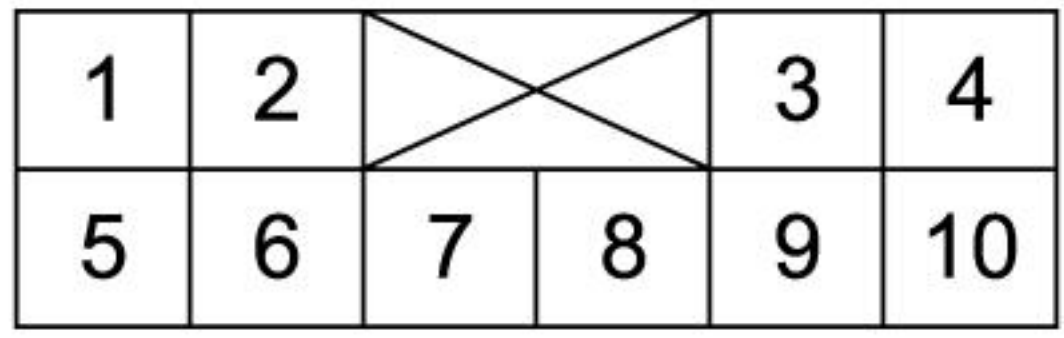
Black



Instrument Panel (IP) Cluster.B

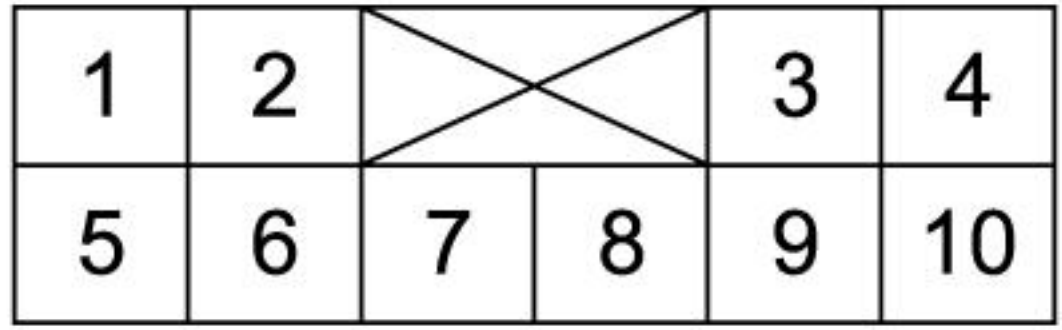
B-115 Gray	 Audio
B-125 Gray	 Master Cylinder Pressure Sensor

B-130 White	 Ignition Switch
B-158 White	 A/C Switch

B-160 White	 Fan Control Switch
B-170 Black	 Hazard Warning Flasher Switch

B-174

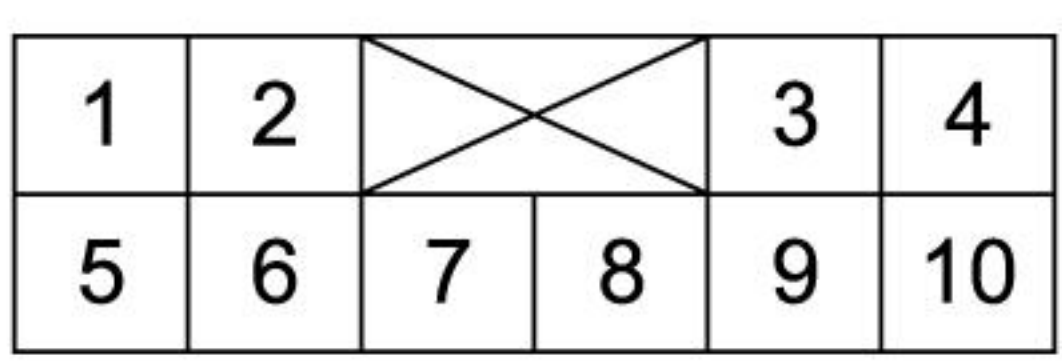
Gray



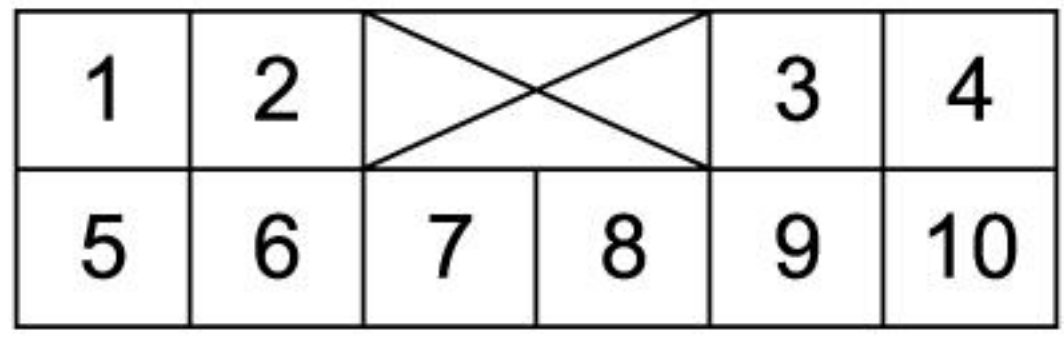
Mirror Heater Switch

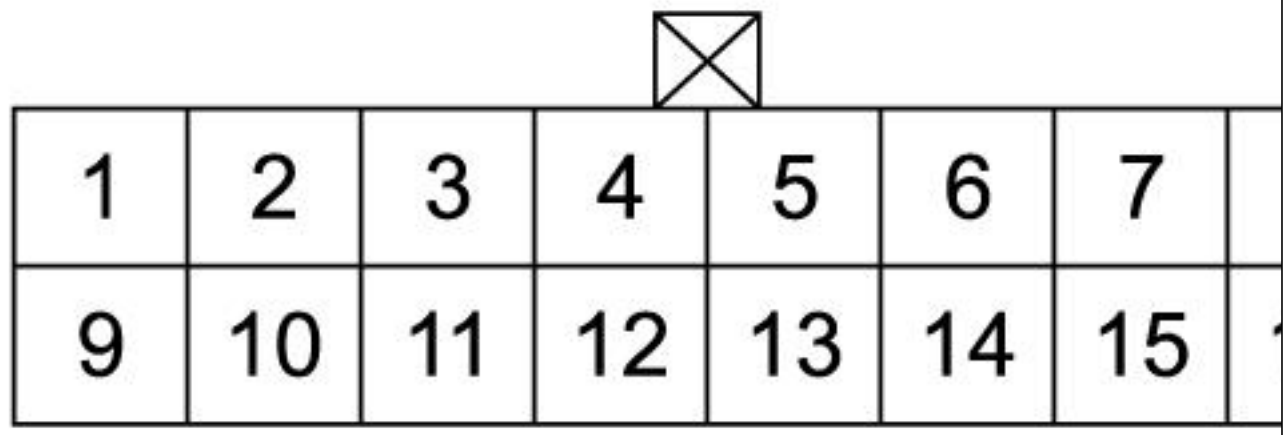
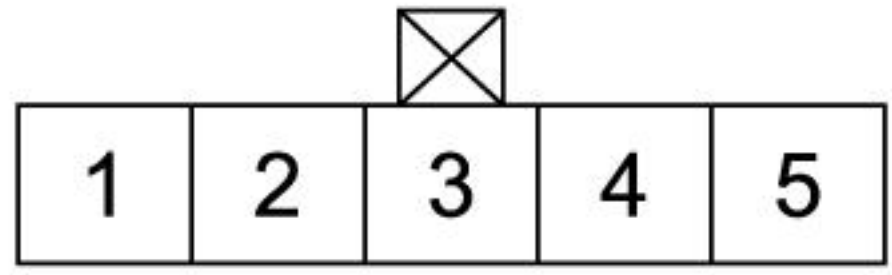
B-175

Blue



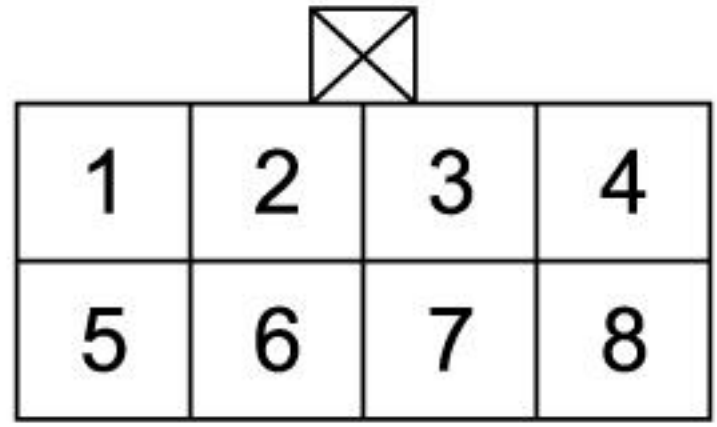
RR Power Window Switch

B-184 Black	 Vacuum Tank Switch
B-187 Black	 RR Window Lock Switch

B-188 White	 Wiper Switch
B-189 Black	 Electronic Thermostat

B-210

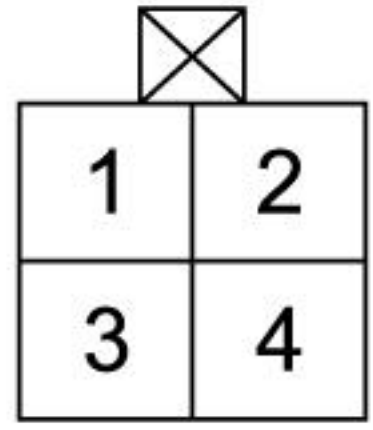
Black



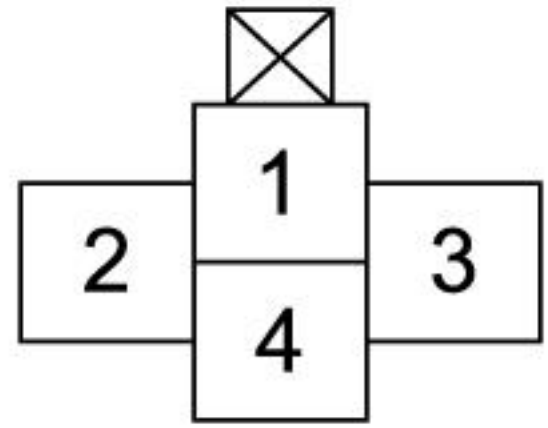
Intermittent Relay

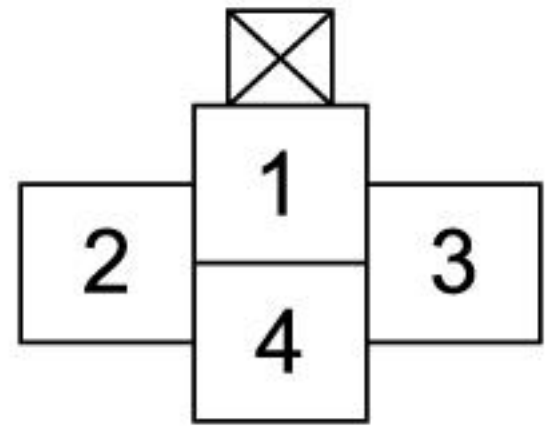
B-211

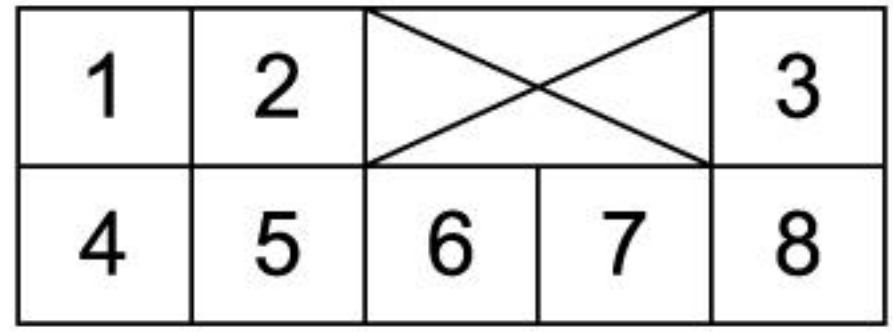
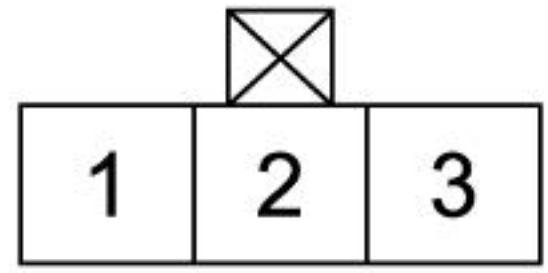
White

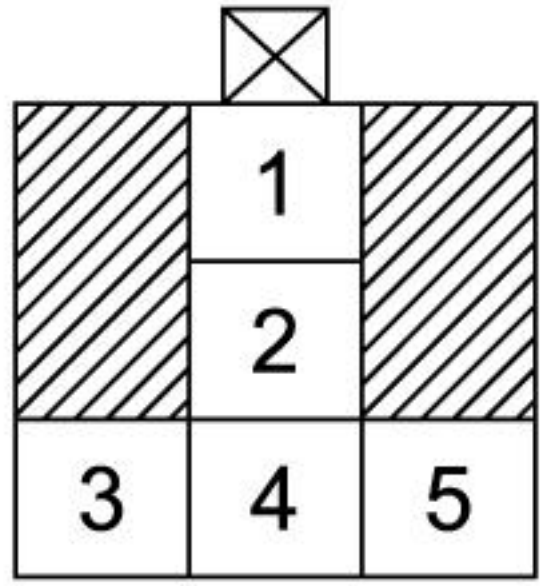


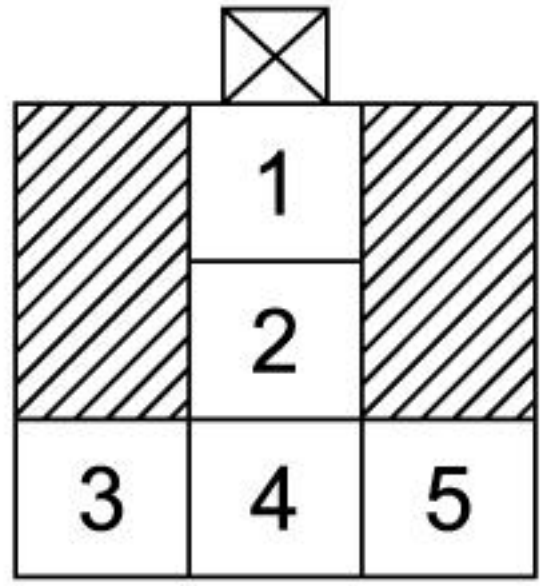
Stoplight Switch

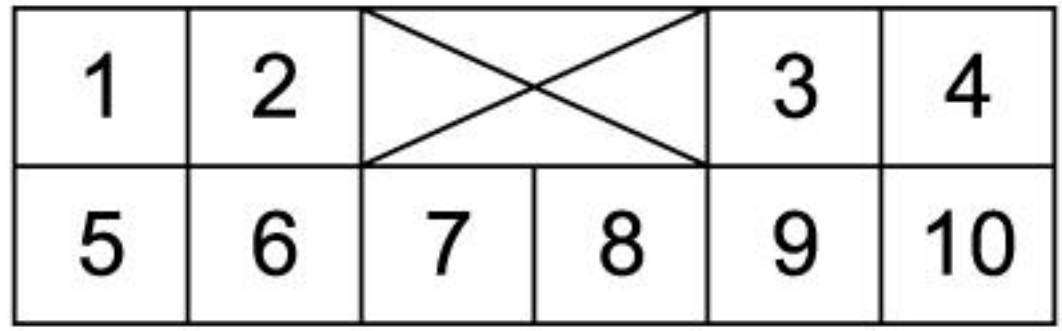
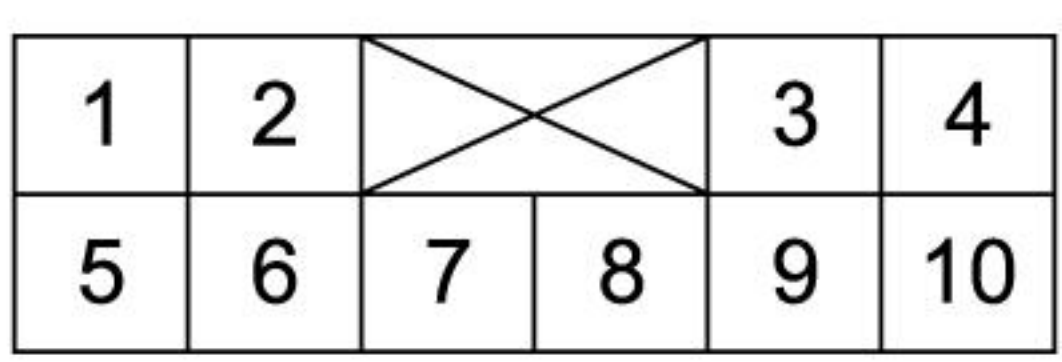
B-212 Black	 Power Accessory Relay
B-213 White	 Accessory Socket.A

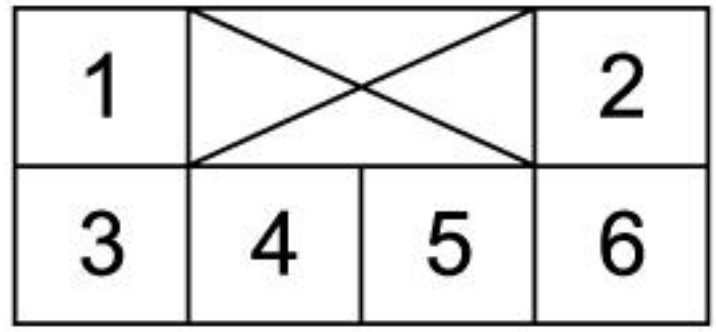
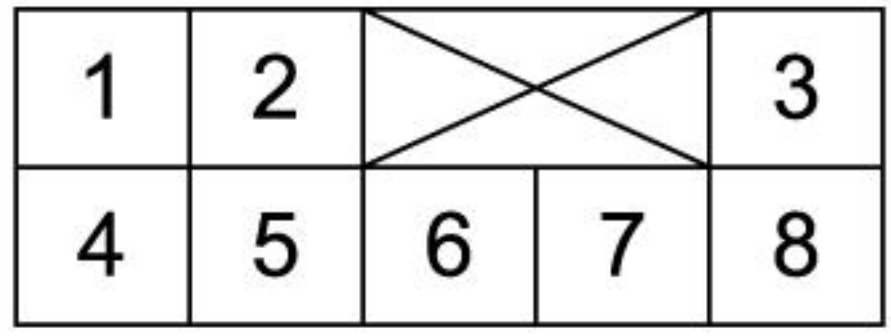
B-214 White	 Accessory Socket.B
B-215 Black	 Blower Relay

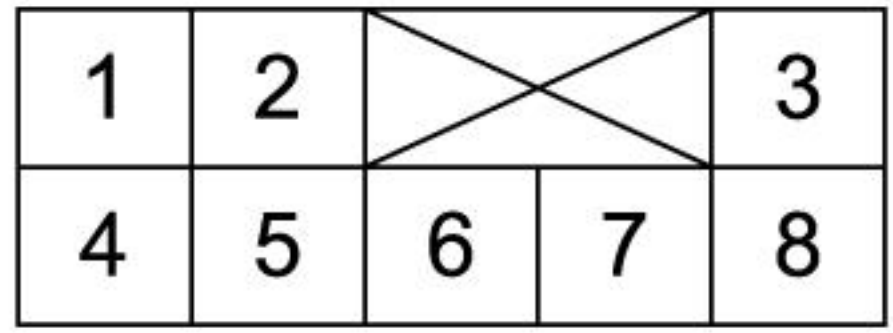
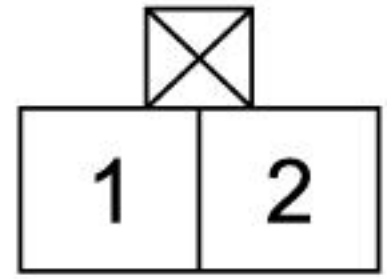
B-216 Blue	 Flasher Unit
B-217 White	 Cab J/B1.M

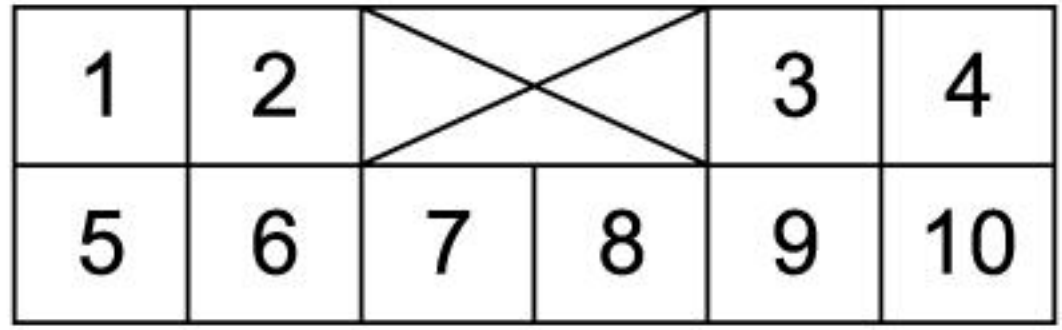
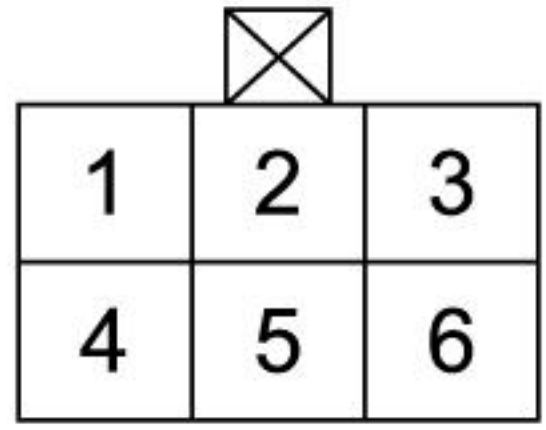
B-218	 Cigarette Lighter Relay
B-220 White	 Power Source

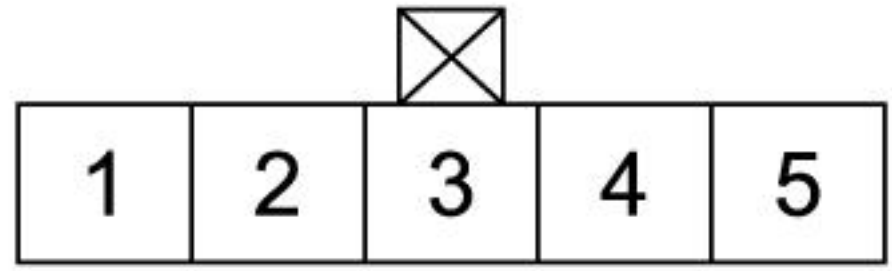
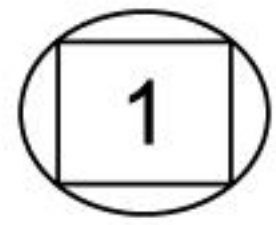
B-222 Black	 RR Dome Light Switch
B-223 White	 Horn Switch

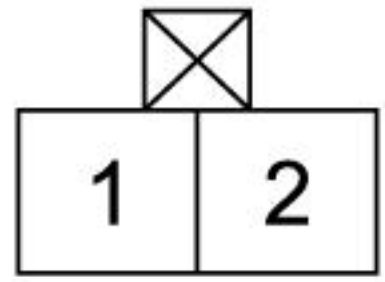
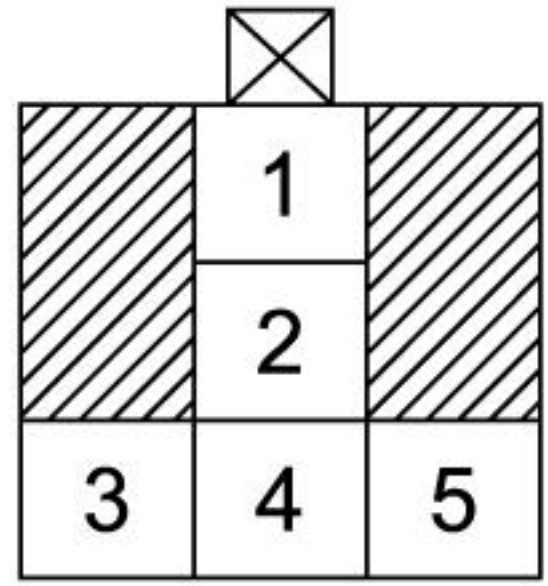
B-224 Brown	 Cruise Main Switch
B-225 Black	 DRL Control Unit.A

B-226 Black	 DRL Control Unit.B
B-227 Gray	 Door Lock Controller

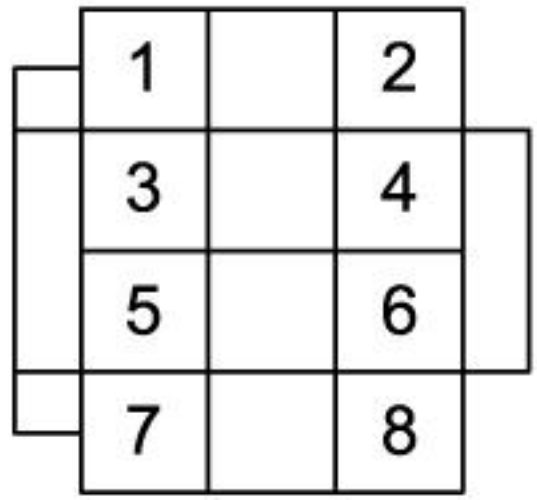
B-232 White	 Cab J/B1.C
B-238 White	 Vacuum Pump Motor

B-239 Blue	 Miles Check Switch
B-240 Blue	 Door Lock Switch

B-241 Black	 Illumination Control Switch
B-244	 Cab Front (LH)

B-245 White	 Defroster Switch
B-246	 Cornering Light Relay

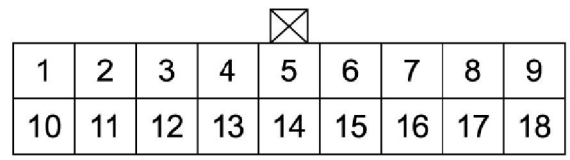
B-250



Fuse Block

B-253

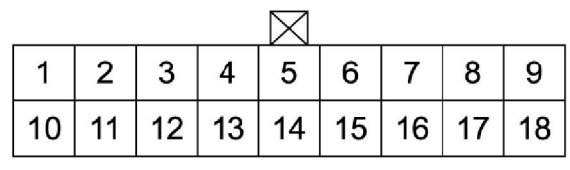
(White)



Sub J/B.A

B-254

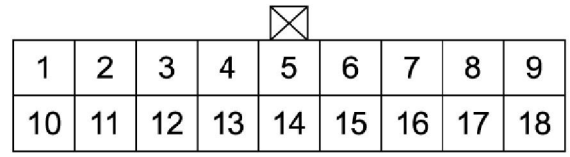
(Black)



Sub J/B.B

B-255

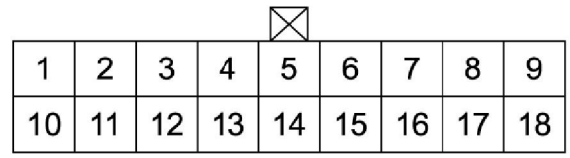
(Gray)



Sub J/B.C

B-256

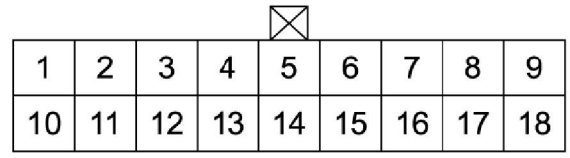
(Blue)



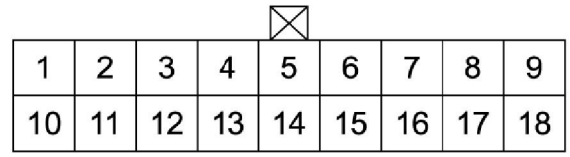
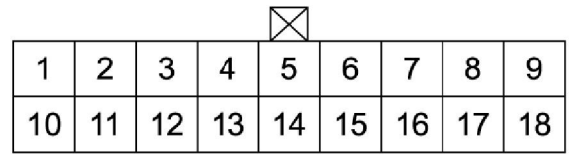
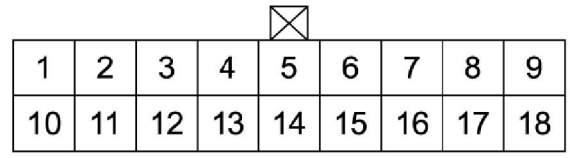
Sub J/B.D

B-257

(Red)

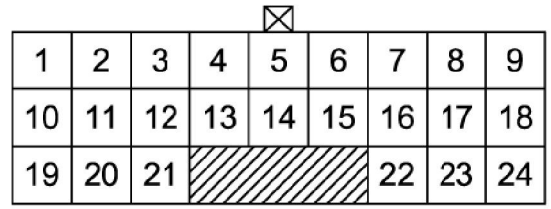


Sub J/B.E

B-258 (Brown)	 Sub J/B.F
B-259 (Green)	 Sub J/B.G
B-260 (Orange)	 Sub J/B.H

B-261

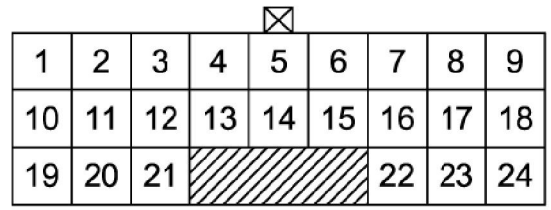
(Gray)



PIM.A

B-262

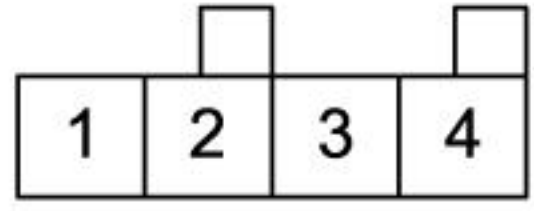
(White)



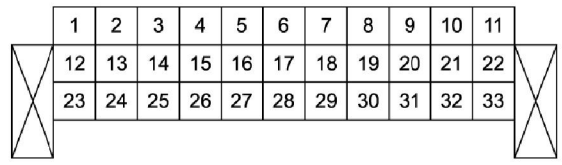
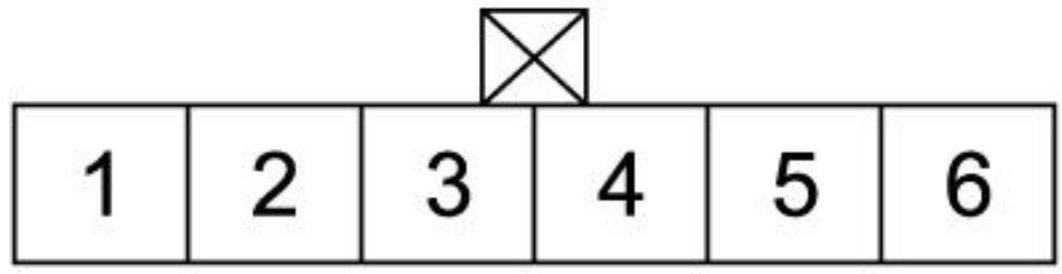
PIM.B

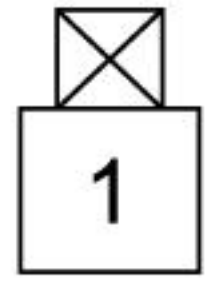
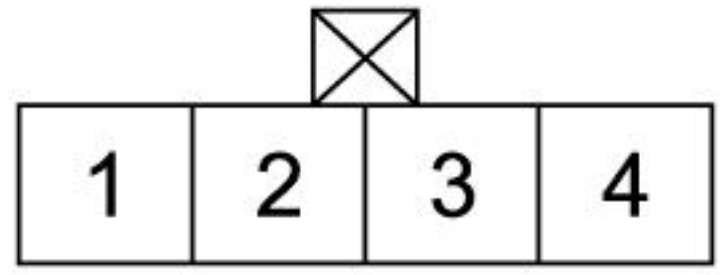
B-263

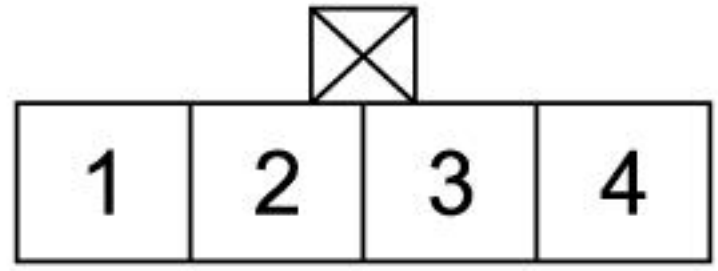
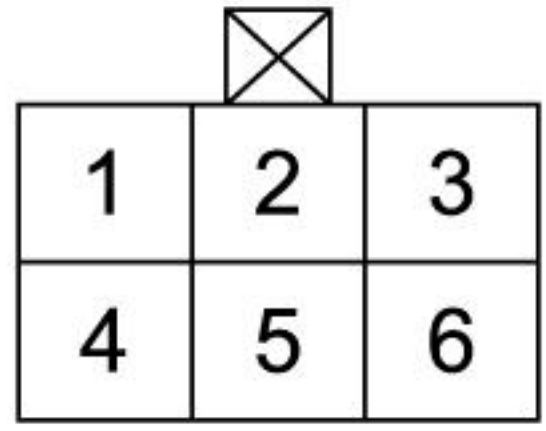
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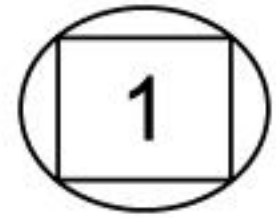
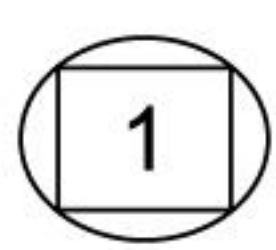


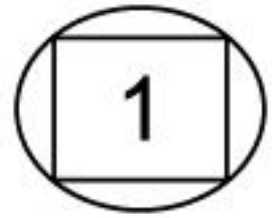
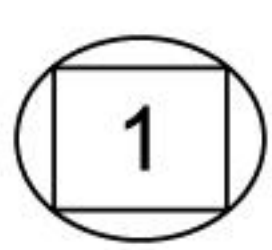
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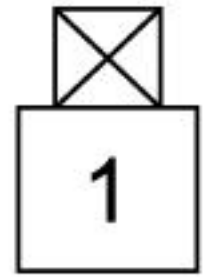
B-264 (White)	 J/C-30P
B-265 (Black)	 Accelerator Sensor

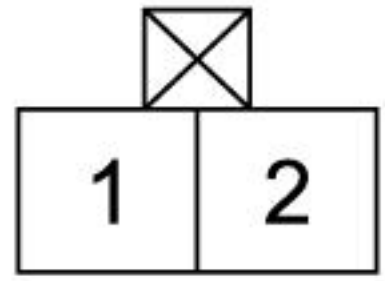
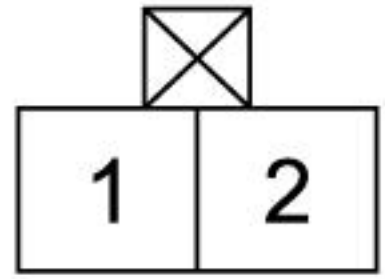
B-266 (White)	 AC Present
B-267 White	 J/C-30

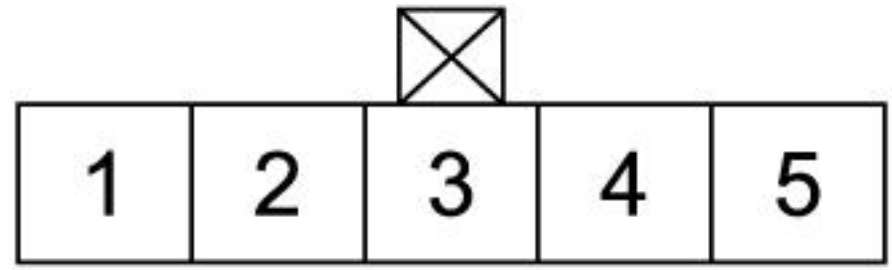
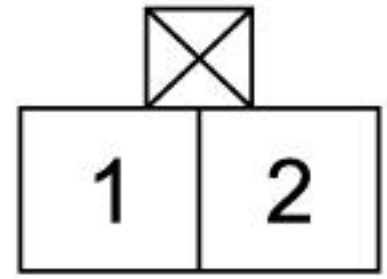
B-268 White	 J/C-31
B-373 White	 RR Body Switch

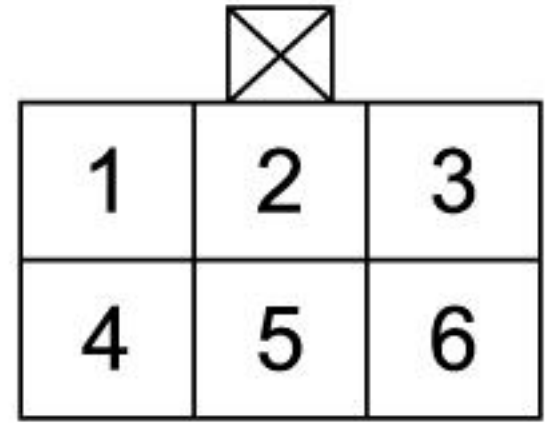
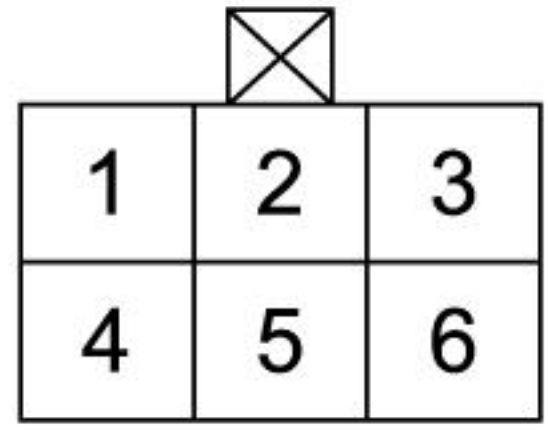
B-409	 EXT_ETB-1
B-410	 EXT_ETB-2

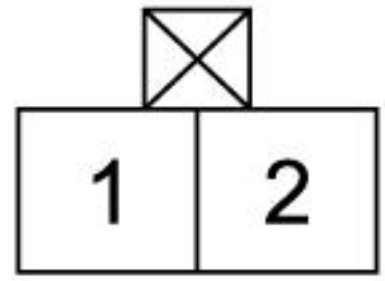
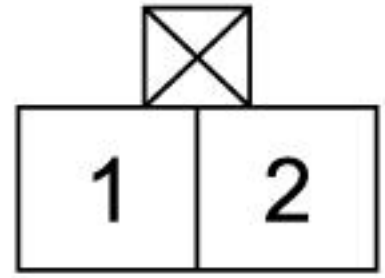
B-411	 EXT_ETB-3
B-412	 EXT_ETB-4

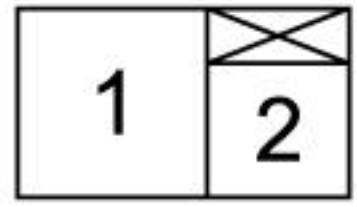
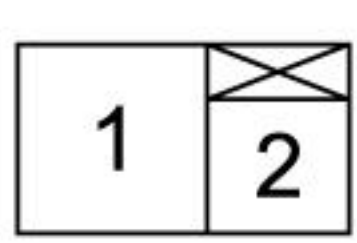
B-413 Black	 TR Brake
B-437 Blue	 Resistor

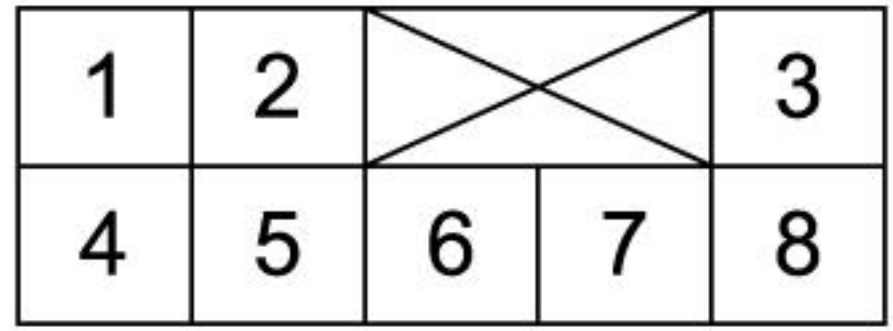
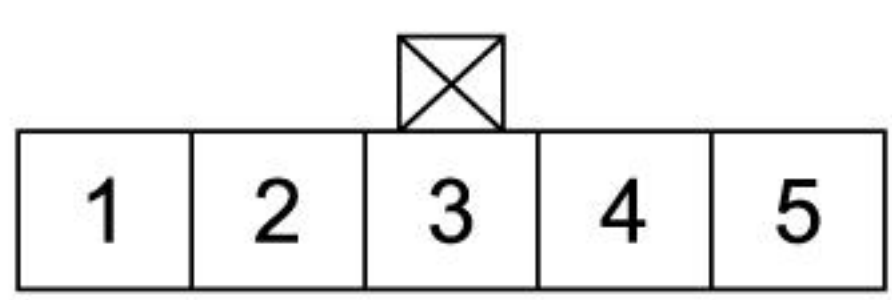
D-2 Gray	 Front Cornering Light (LH)
D-3 Gray	 Front Cornering Light (RH)

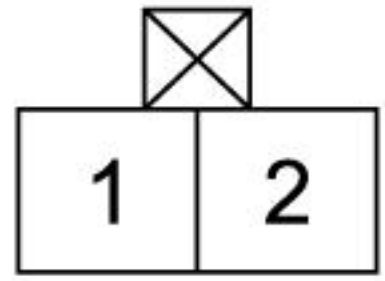
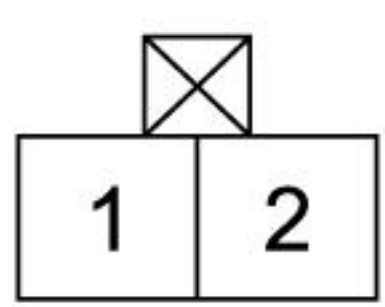
D-5 Gray	 Front Door Lock Motor (LH)
D-7 Gray	 Front Door Lock Motor (RH)

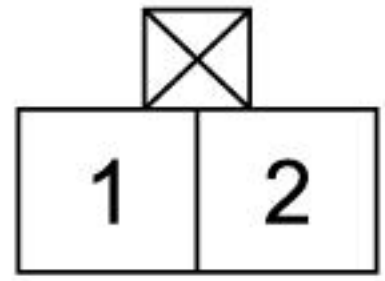
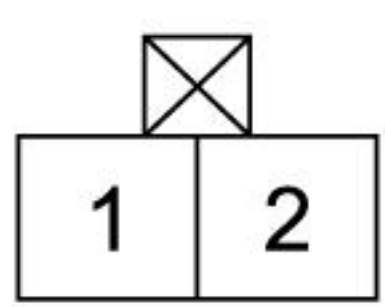
D-9 Green	 Front Power Window Motor (LH)
D-11 Green	 Front Power Window Motor (RH)

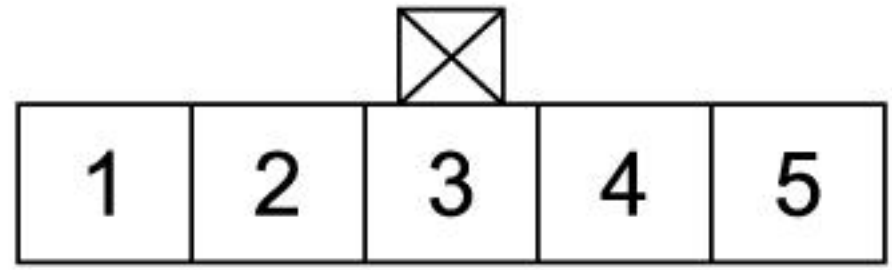
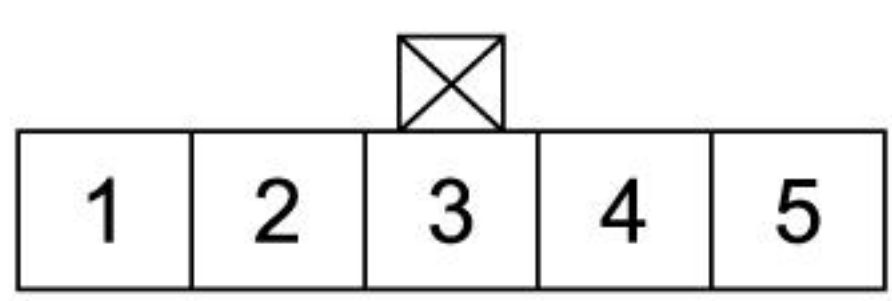
D-12 Brown	 Side Turn Signal Light (LH)
D-13 Brown	 Side Turn Signal Light (RH)

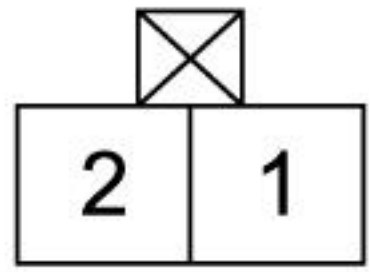
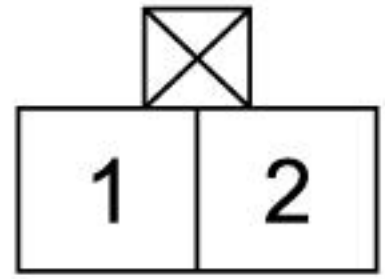
D-17 Black	 Speaker (LH)
D-19 Black	 Speaker (RH)

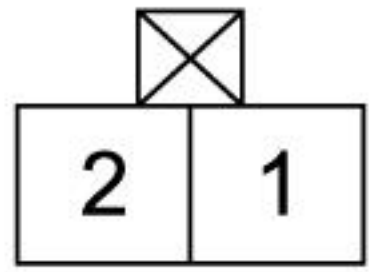
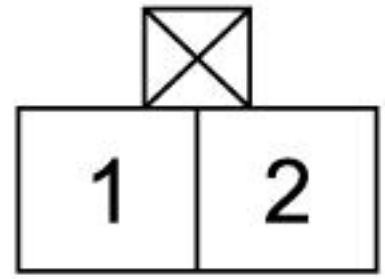
D-21 White	 Front Power Window Switch (LH)
D-22 Gray	 Front Power Window Switch (RH)

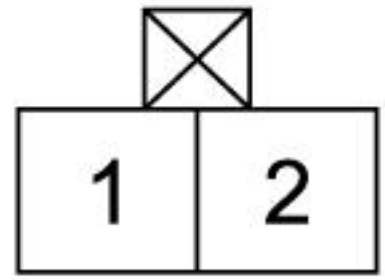
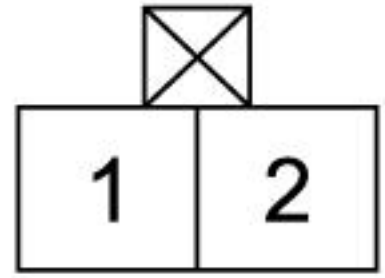
D-23 Gray	 RR Door Lock Motor (LH)
D-24 Gray	 RR Door Lock Motor (RH)

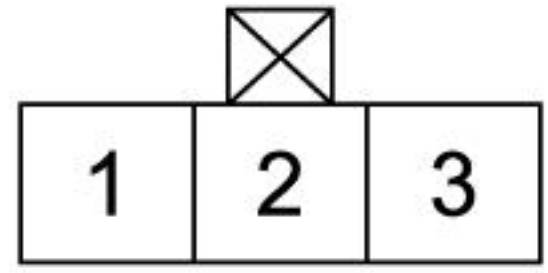
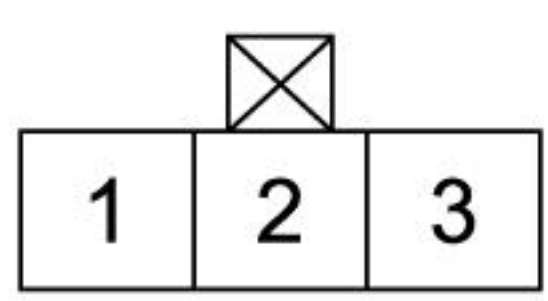
D-25 White	 RR Power Window Motor (LH)
D-26 White	 RR Power Window Motor (RH)

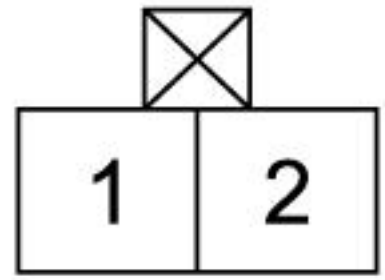
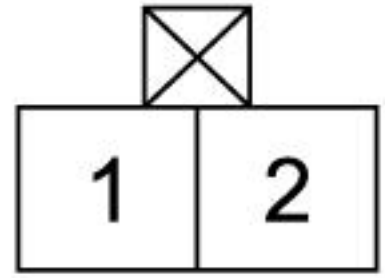
D-27 White	 RR Power Window Switch (LH)
D-28 White	 RR Power Window Switch (RH)

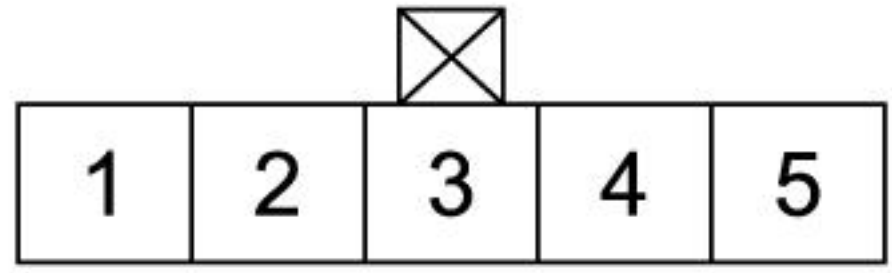
D-40 Gray	 Mirror Heater (LH)
D-41 Gray	 Side Marker Light (LH)

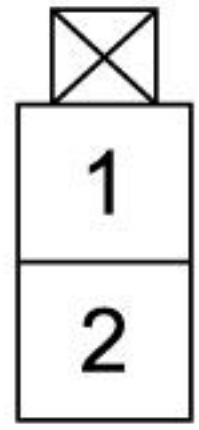
D-42 Gray	 Mirror Heater (RH)
D-43 Gray	 Side Marker Light (RH)

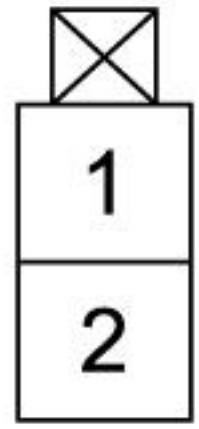
E-25 Black	 Engine Coolant Temp Sensor
E-51 Black	 AC Generator

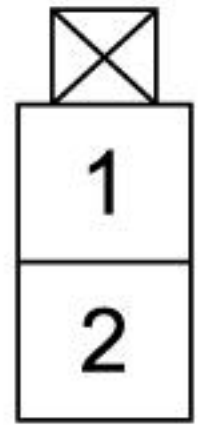
E-69 Grey	 Crankshaft Position Sensor
E-72 Black	 Boost Pressure Sensor

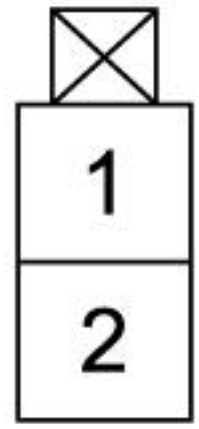
E-80 (White)	 Knock Sensor 1 (LH)
E-81 (White)	 Knock Sensor 2 (RH)

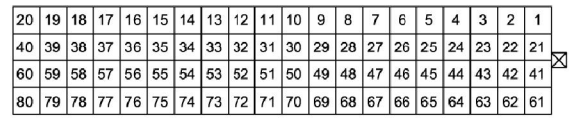
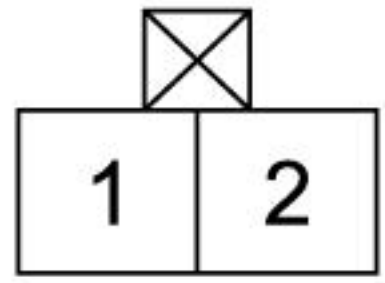
E-82 (Gray)	 A/C Compressor
E-83 (Black)	 Camshaft Position Sensor

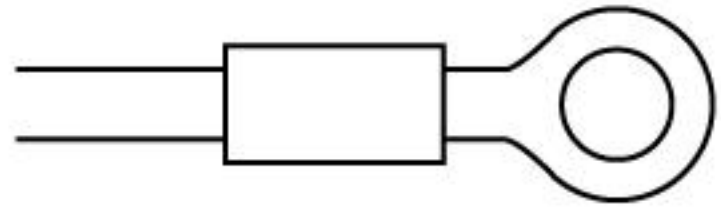
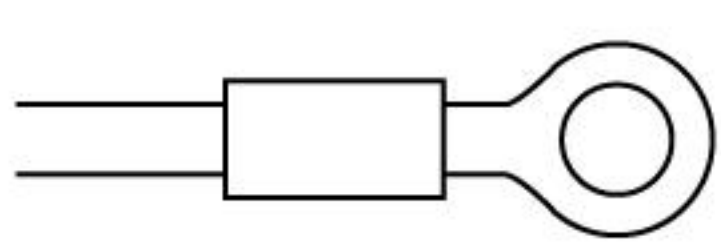
E-87 (Black)	 Injector No.1
E-88 (Black)	 Injector No.2

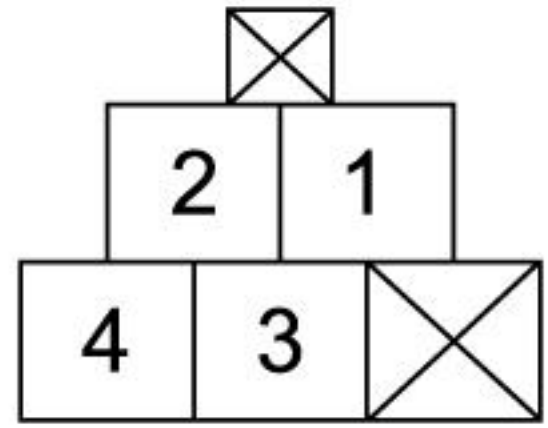
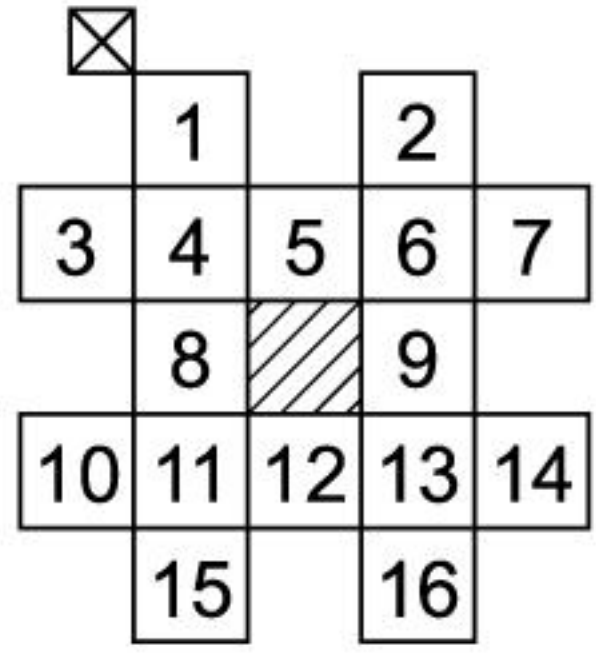
E-89 (Black)	 Injector No.3
E-90 (Black)	 Injector No.4

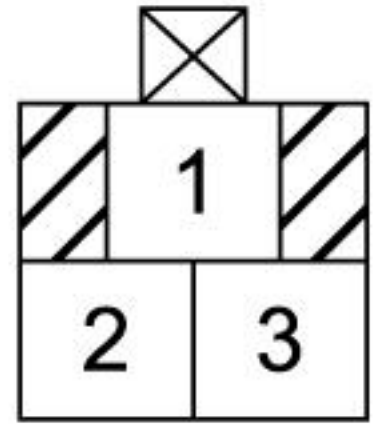
E-91 (Black)	 Injector No.5
E-92 (Black)	 Injector No.6

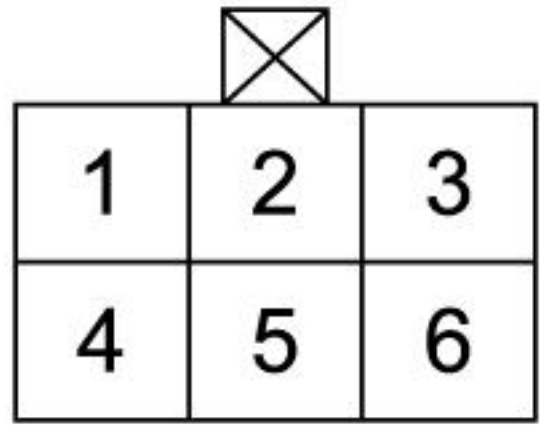
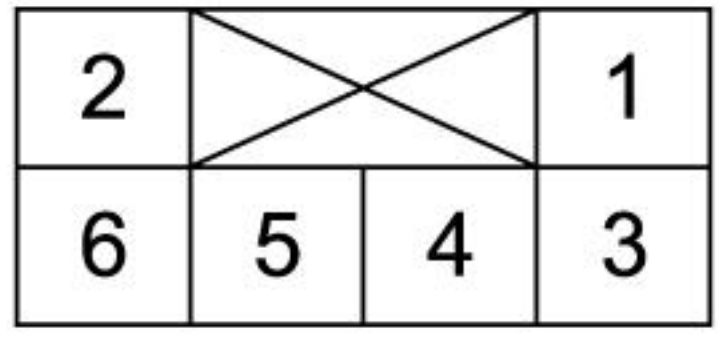
E-93 (Black)	 Injector No.7
E-94 (Black)	 Injector No.8

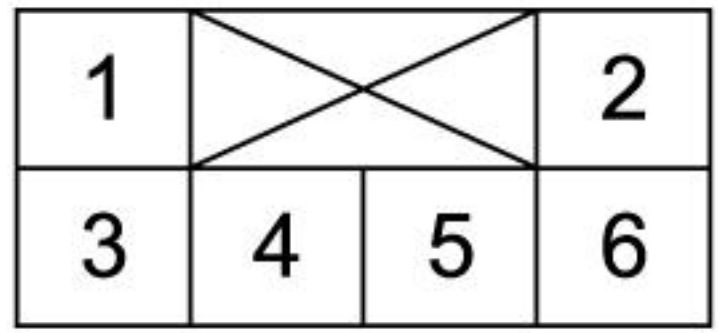
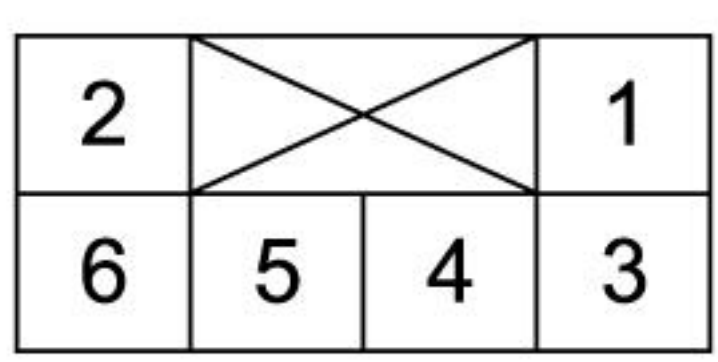
E-95 (Gray)	 PCM.B
E-96 (Black)	 Canister Purge Solenoid Valve

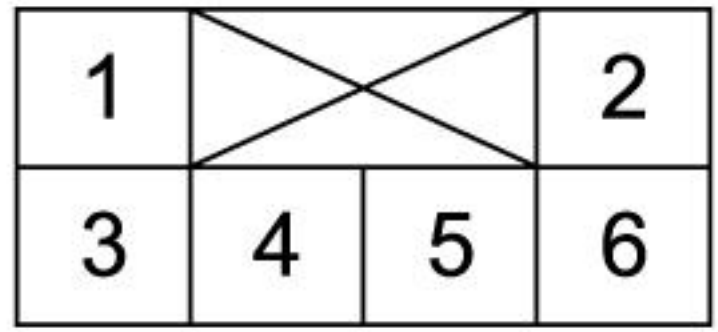
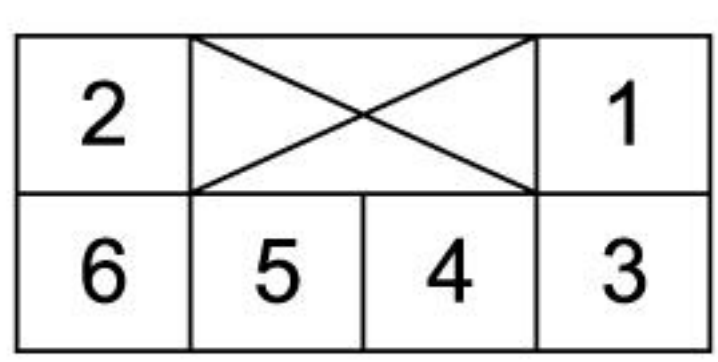
E-97	 Engine
E-98	 Engine

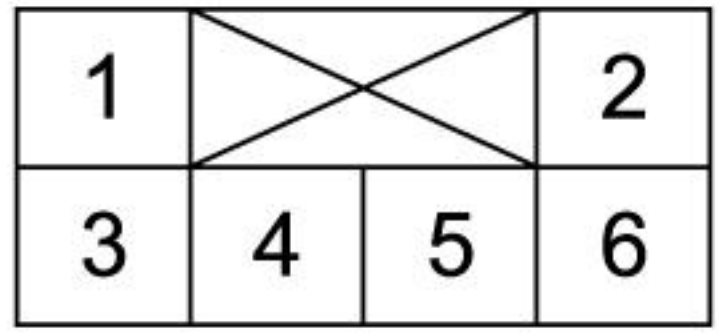
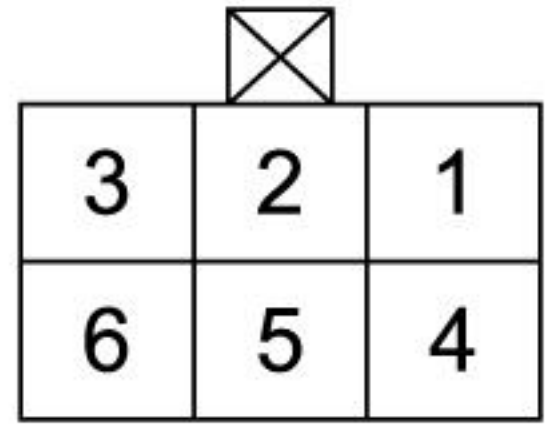
E-99 (Black)	 Front Heater Sensor (LH)
E-100 (Gray)	 Automatic Transmission

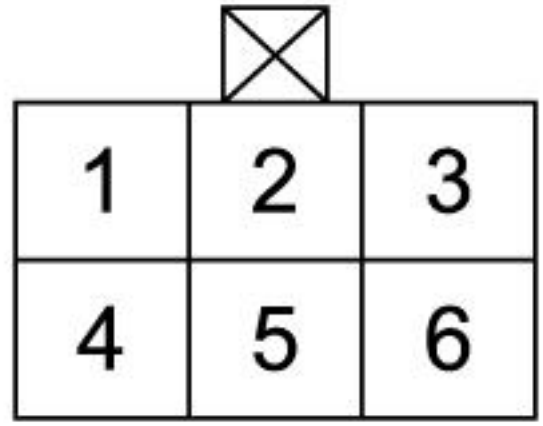
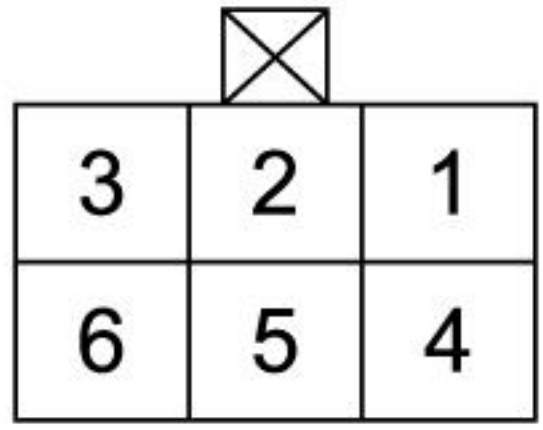
E-104 (Black)	 Oil Pressure Sensor
E-105	 Engine

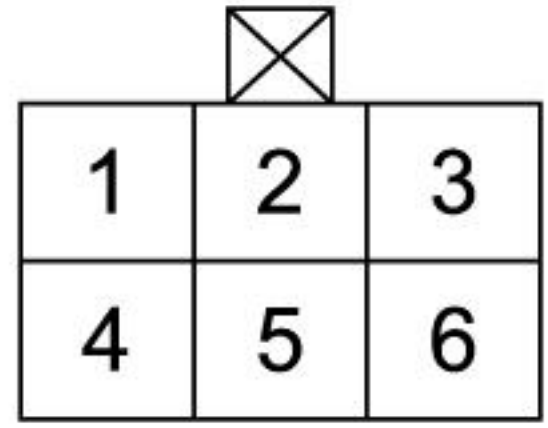
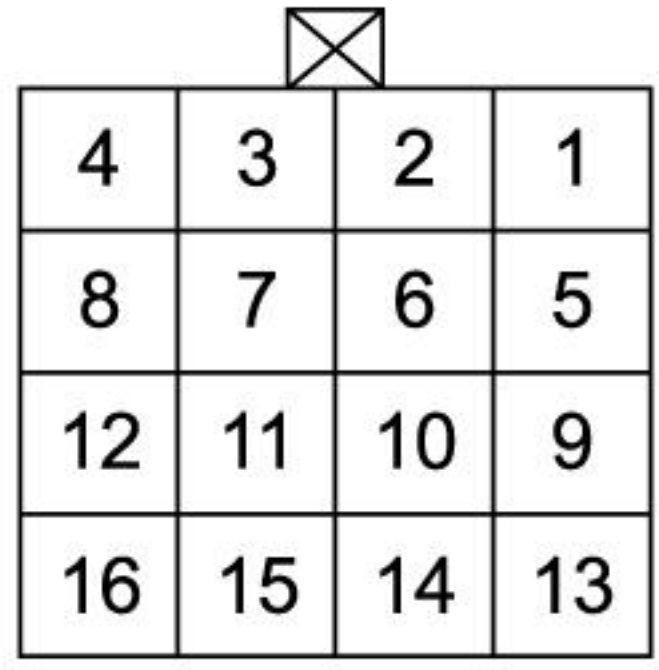
E-106 (Black)	 Intake Throttle Motor and Position Sensor
H-31 White	 Inst H.~Door (LH) H.

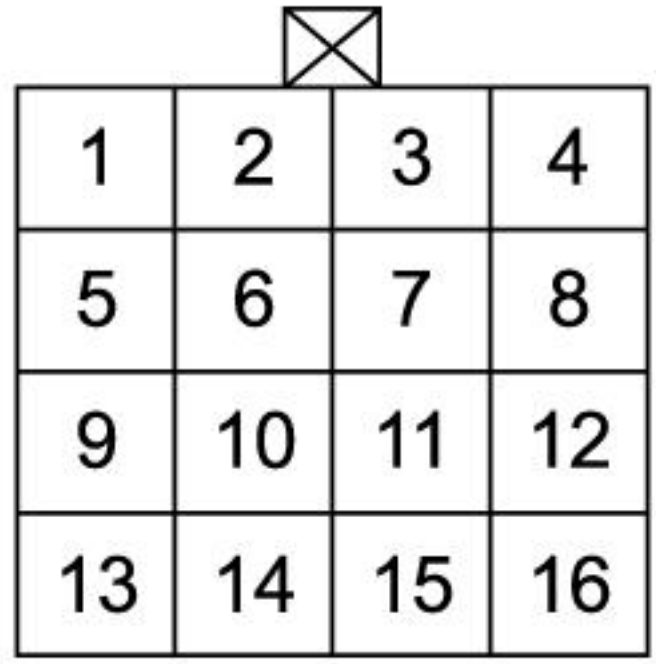
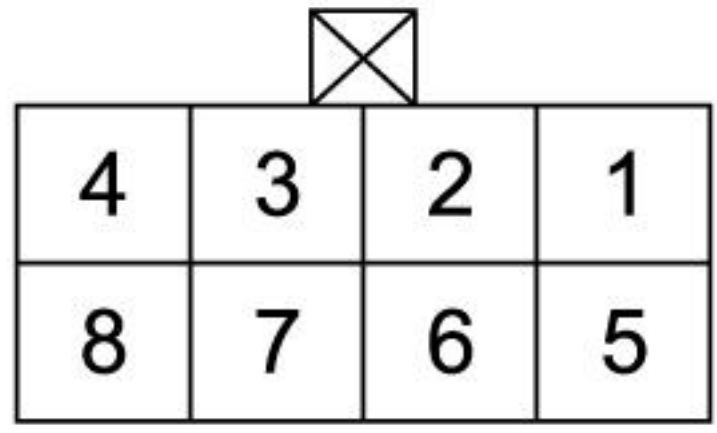
H-31 White	 Inst H.~Door (LH) H.
H-32 Black	 Inst H.~Door (RH) H.

H-32 Black	 Inst H.~Door (RH) H.
H-45 White	 Inst H.~Roof H.

H-45 White	 Inst H.~Roof H.
H-49 (Gray)	 Floor (LH) H.– RR Door (LH) H.

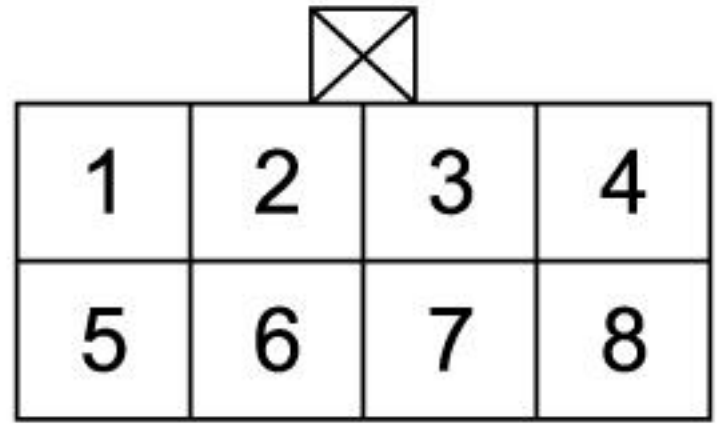
H-49 (Gray)	 Floor (LH) H.– RR Door (LH) H.
H-51 (Gray)	 Floor (RH) H.– RR Door (RH) H.

H-51 (Gray)	 Floor (RH) H.– RR Door (RH) H.
H-52 Black	 Frame Front H.– Engine1 H.

H-52 Black	 Frame Front H.– Engine1 H.
H-66 Black	 Frame Rear H.– Rear Combi H.

H-66

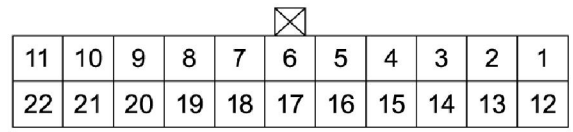
Black



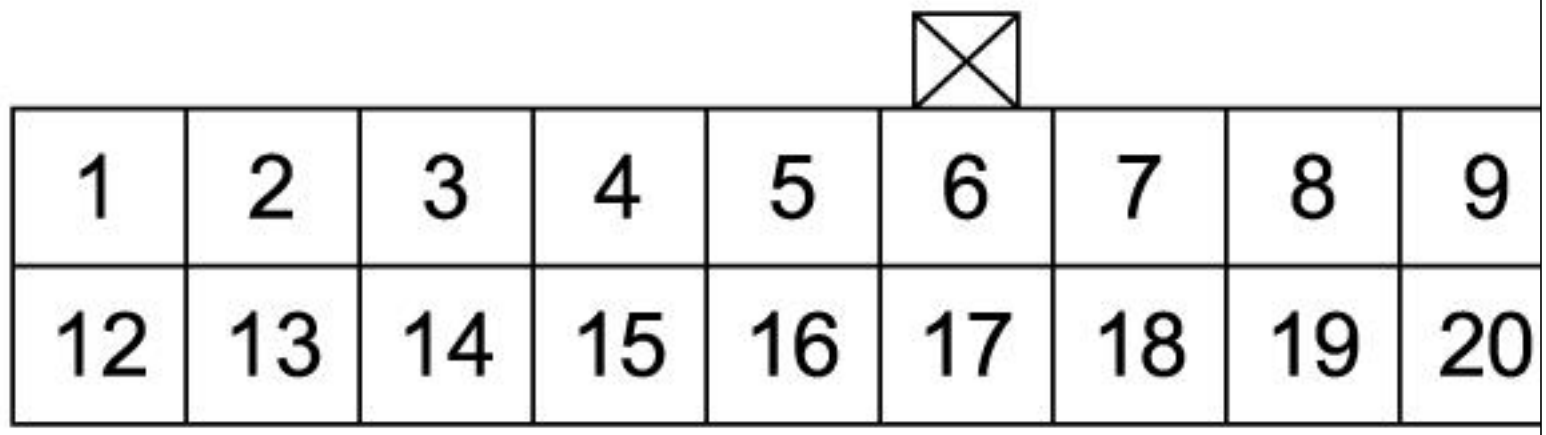
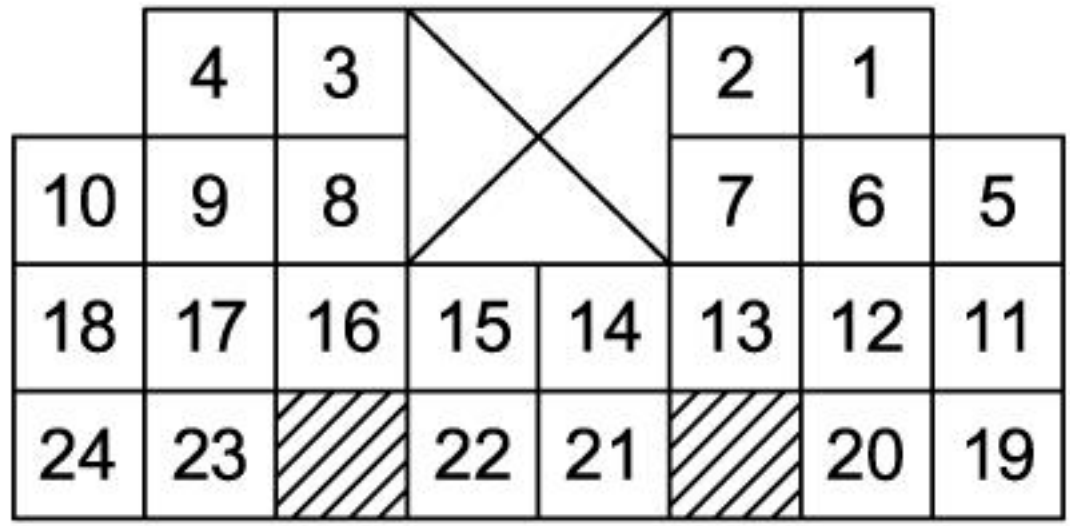
Frame Rear H.– Rear Combi H.

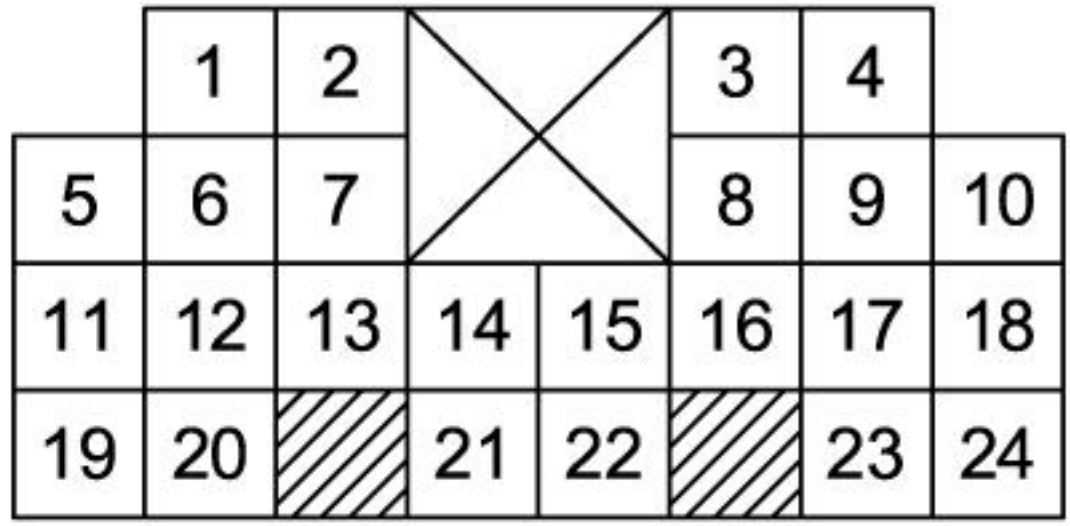
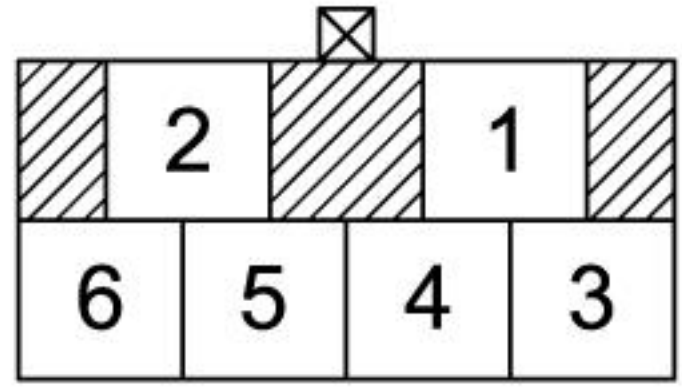
H-80

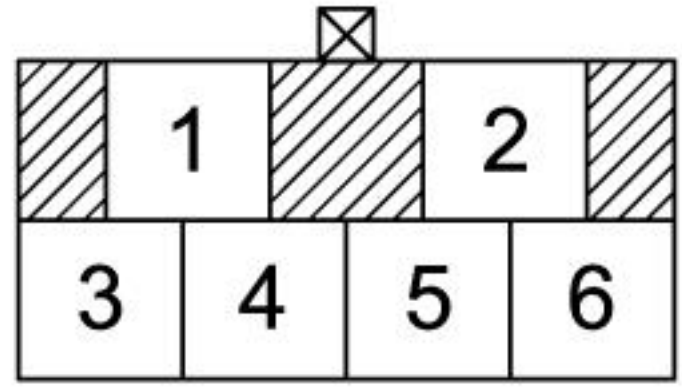
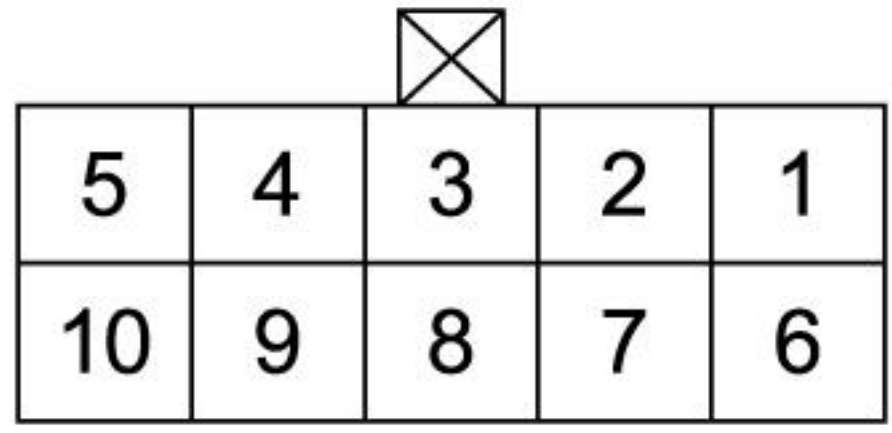
Black

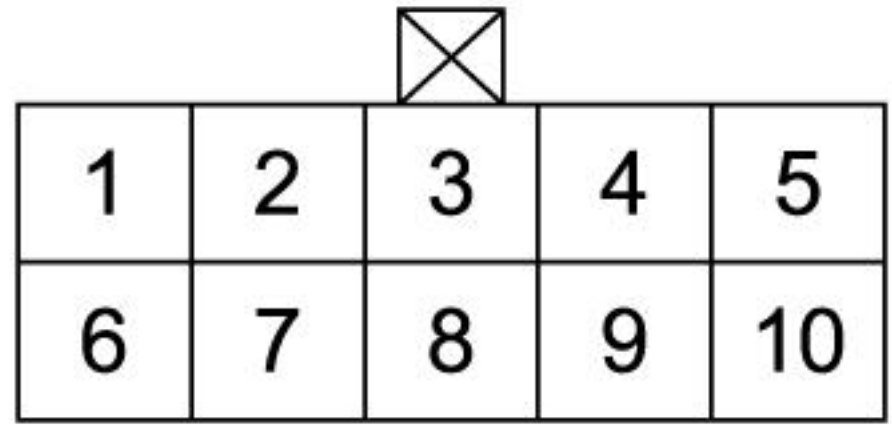
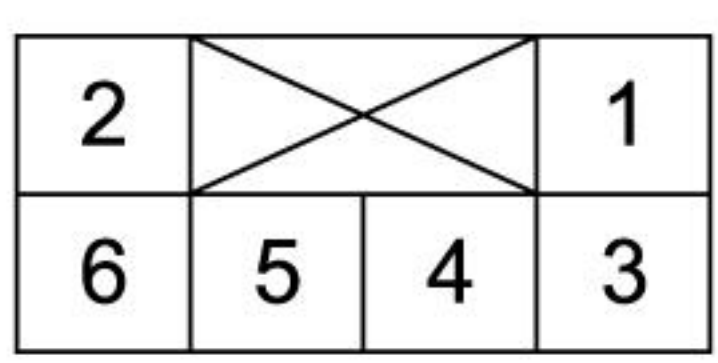


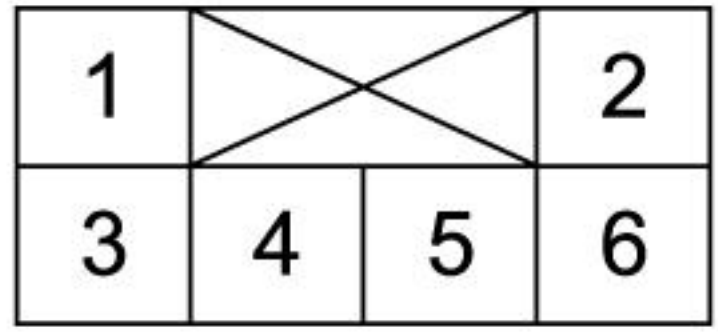
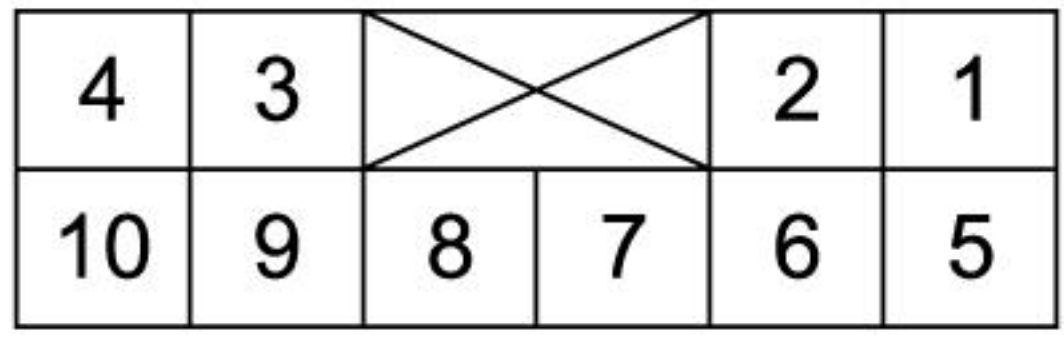
Inst H.– Frame Front H.

H-80 Black	 Inst H. – Frame Front H.
H-81 Green	 Inst H.– Frame Front H.

H-81 Green	 Inst H.– Frame Front H.
H-82 Gray	 Inst H.– Frame Front H.

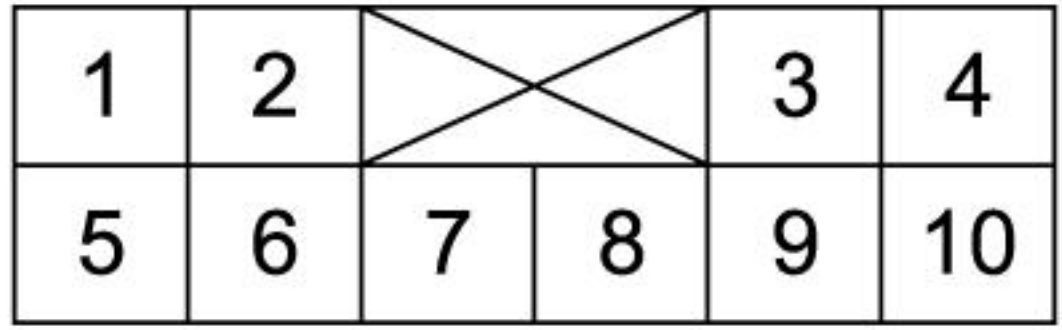
H-82 Gray	 Inst H.– Frame Front H.
H-83 White	 Inst H. – Frame Front H.

H-83 White	 Inst H. – Frame Front H.
H-85 Black	 Inst H.– Floor (LH) H.

H-85 Black	 Inst H.– Floor (LH) H.
H-86 White	 Inst H.– Floor (RH) H.

H-86

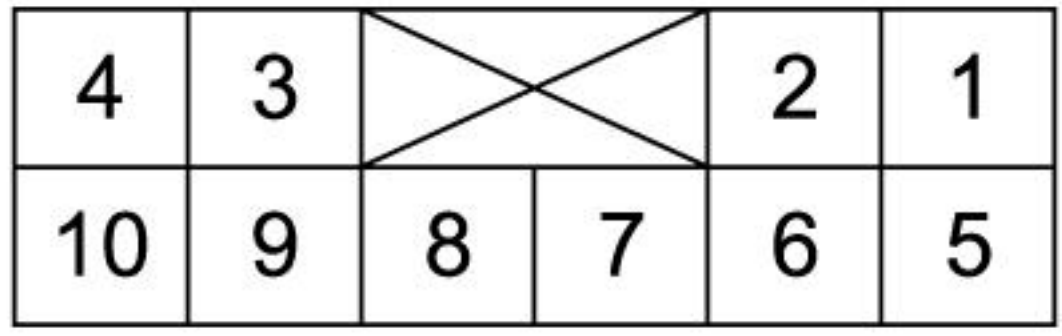
White



Inst H.– Floor (RH) H.

H-87

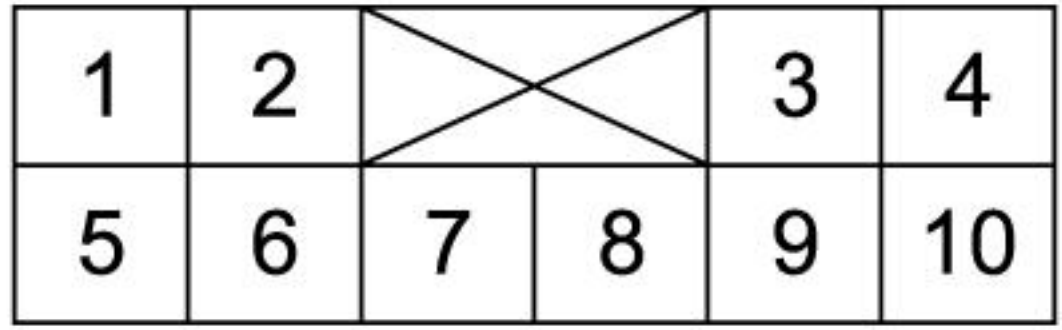
Green



Inst H.– Door (RH) H.

H-87

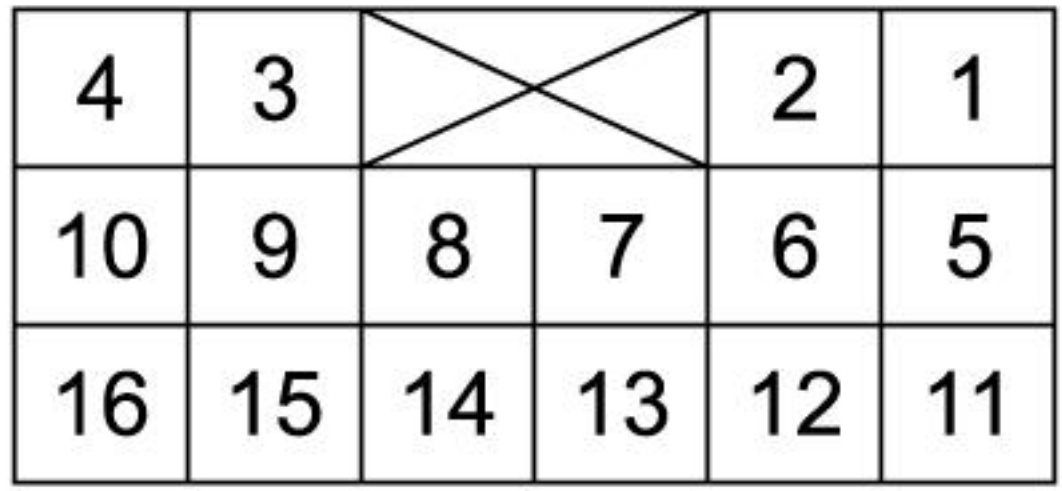
Green



Inst H.– Door (RH) H.

H-92

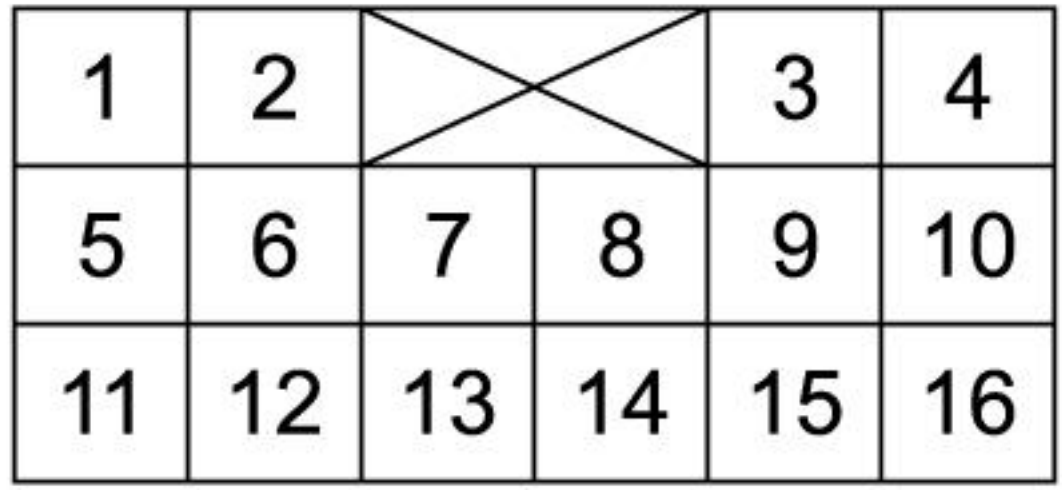
Black



Inst H.– Door (LH) H.

H-92

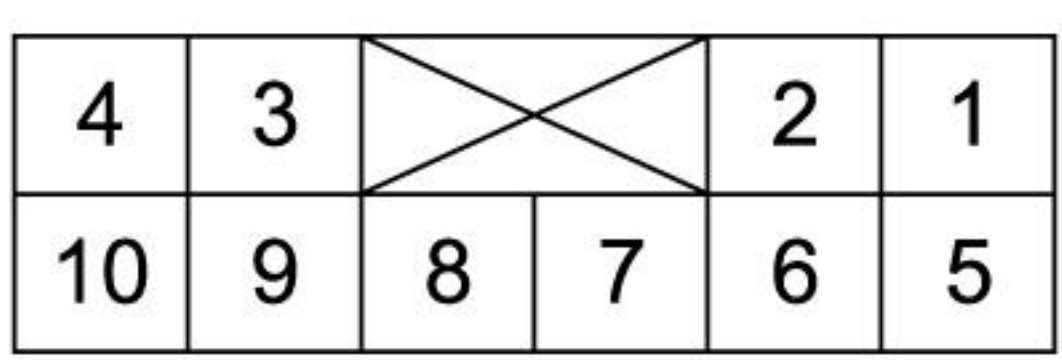
Black



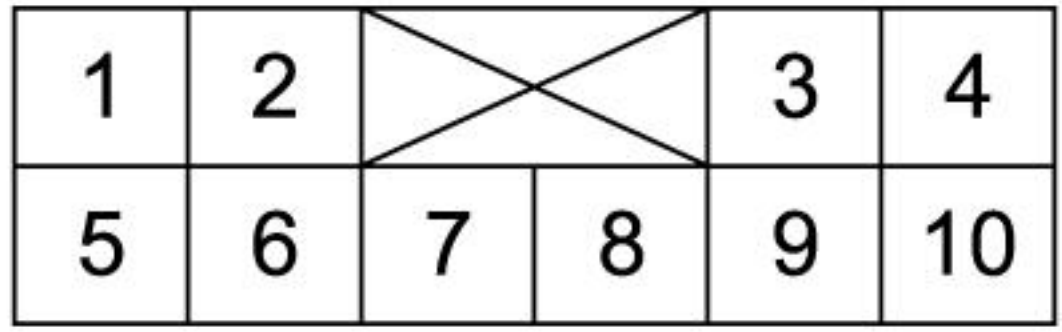
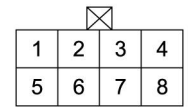
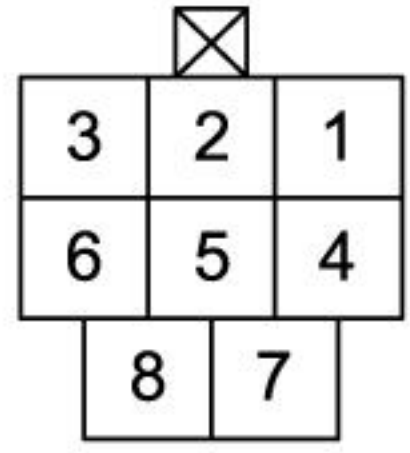
Inst H.– Door (LH) H.

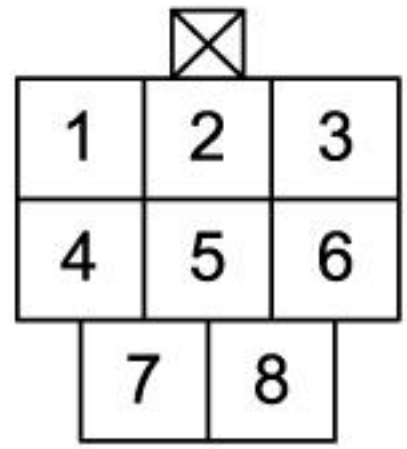
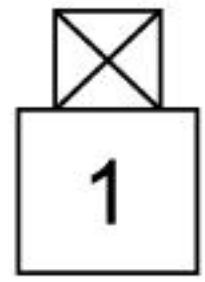
H-93

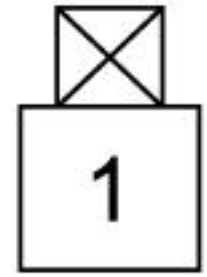
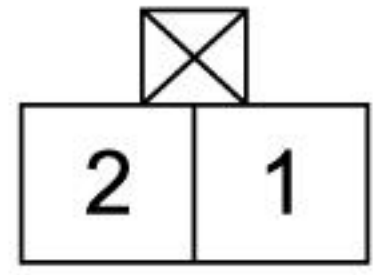
White

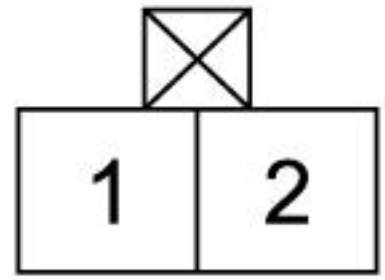
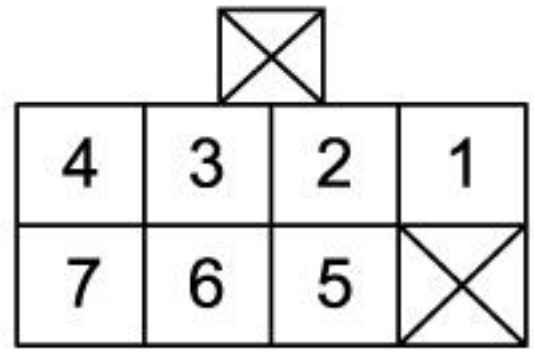


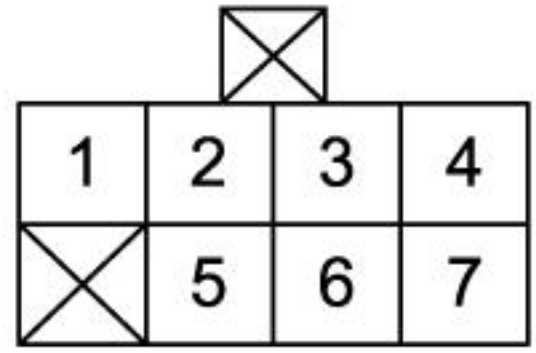
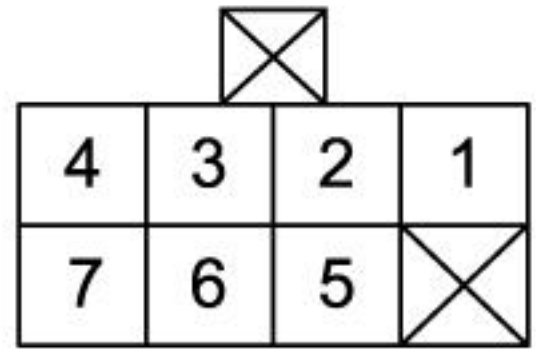
Inst H.– Floor (LH) H. MT AT

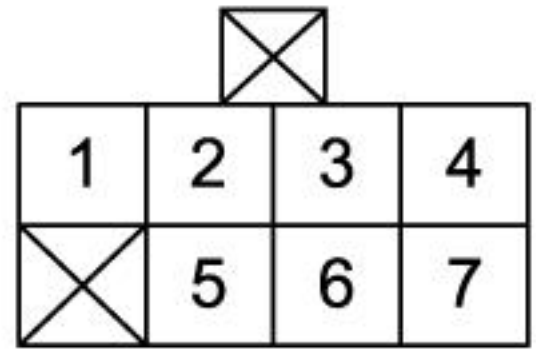
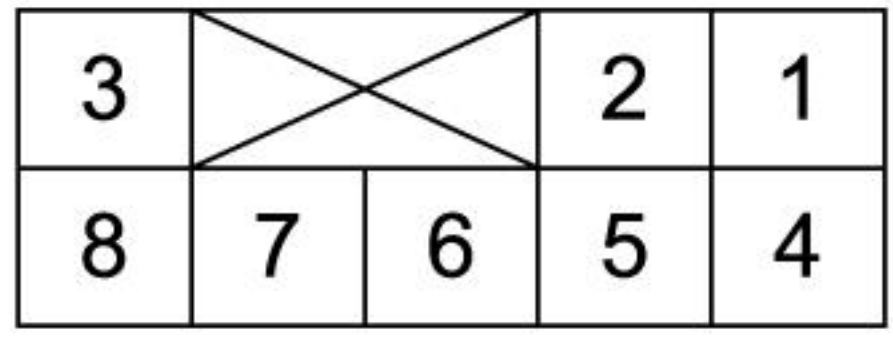
H-93 White	 Inst H.– Floor (LH) H. MT AT
H-168 Black	 008-076 Engine H. – Glow H.
H-109 (Black)	 Engine – Frame

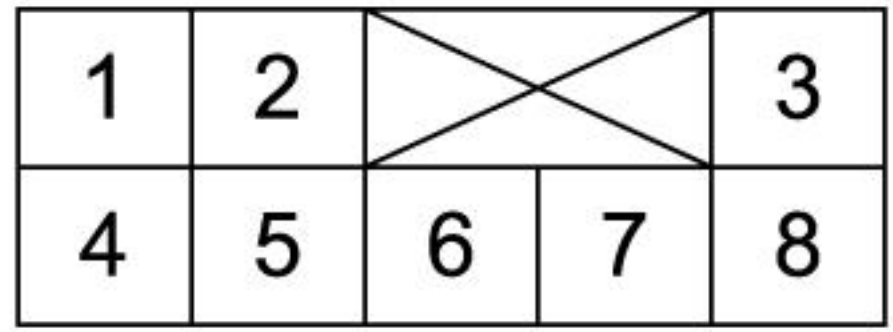
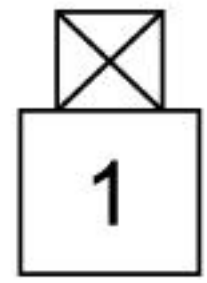
H-109 (Black)	 Engine – Frame
H-110 (Gray)	 Starter – Frame

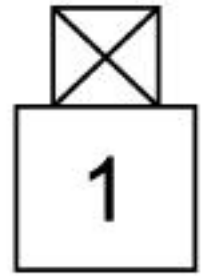
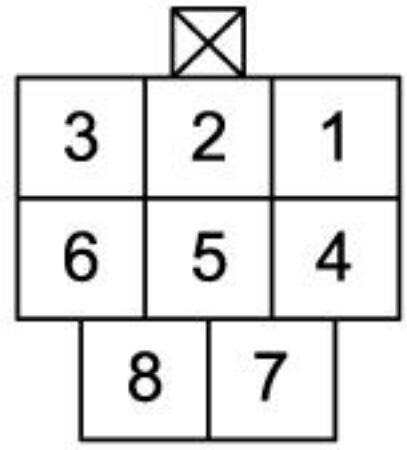
H-110 (White)	 Starter – Frame
H-111 (Gray)	 Starter – Frame

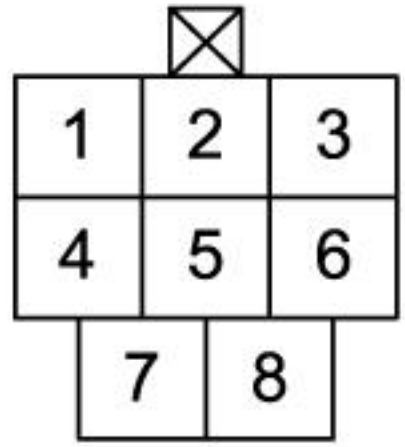
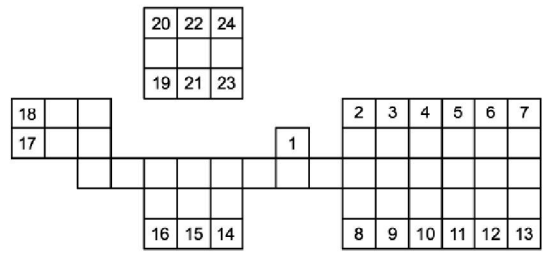
H-111 (White)	 Starter – Frame
H-112 (Gray)	 Engine – Engine

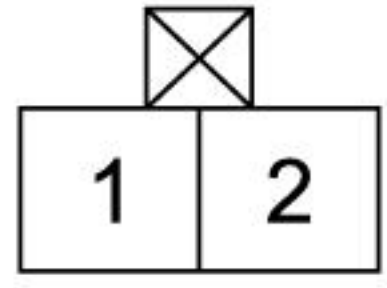
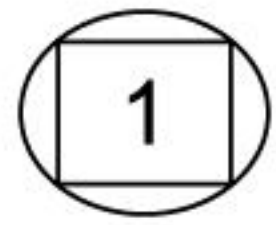
H-112 (Gray)	 Engine – Engine
H-113 (Gray)	 Engine – Engine

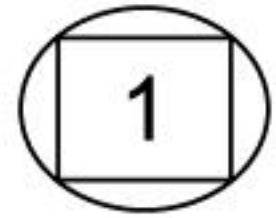
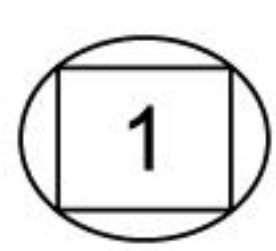
H-113 (Gray)	 Engine – Engine
H-114 (White)	 Inst – Floor

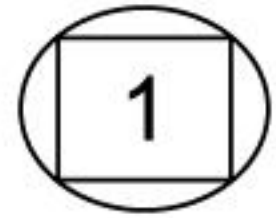
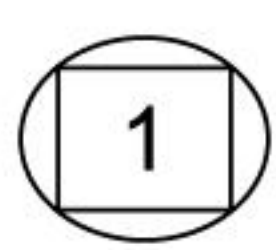
H-114 (White)	 Inst – Floor
H-170 Black	 INST H. – Frame H.

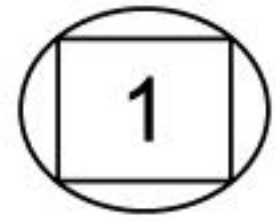
H-170 Black	 INST H. – Frame H.
H-172 Black	 Frame H. – Towing H.

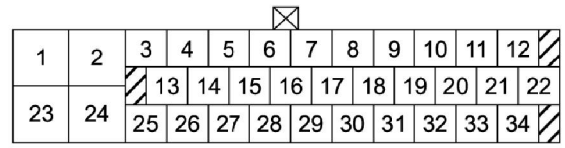
H-172 Black	 Frame H. – Towing H.
J-2	 Relay Box

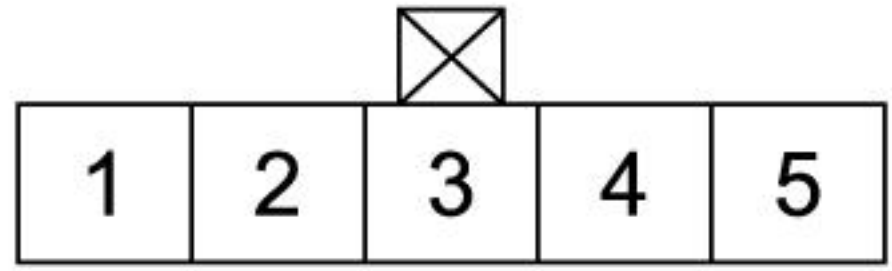
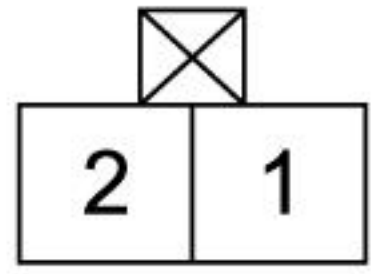
J-4 Gray	 Condenser Fan Motor
J-7	 Frame Front (RH)

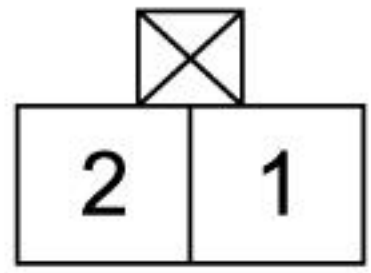
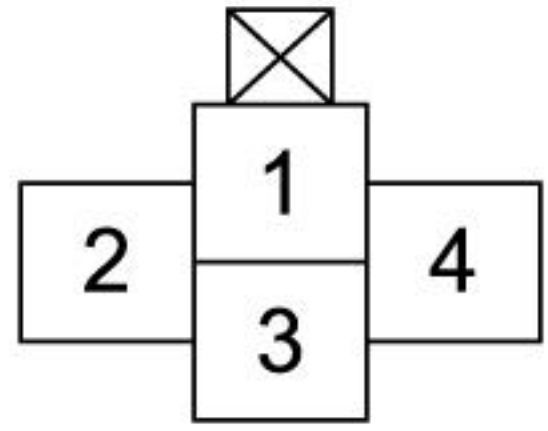
J-8	 Frame Front (RH)
J-9	 Frame Center (RH)

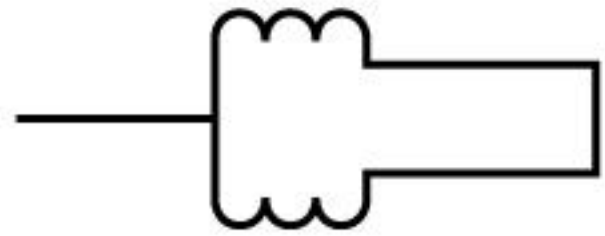
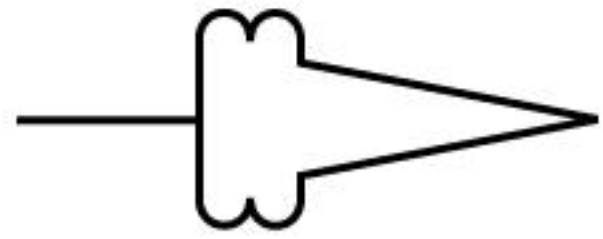
J-10	 Frame Center (RH)
J-11	 Frame Front (RH)

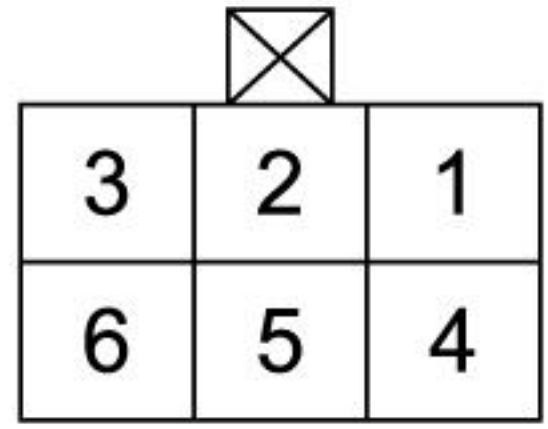
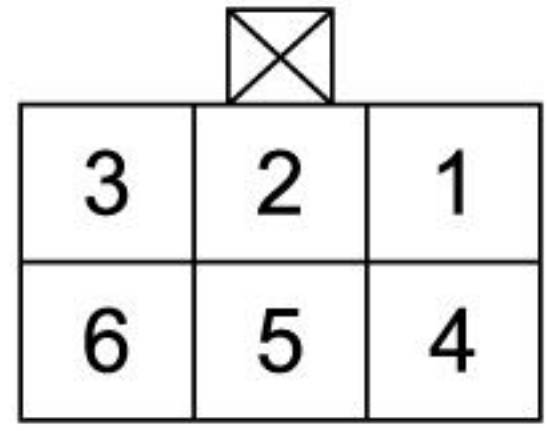
J-12	 Frame Center (RH)
J-19 White	 Horn (LH)

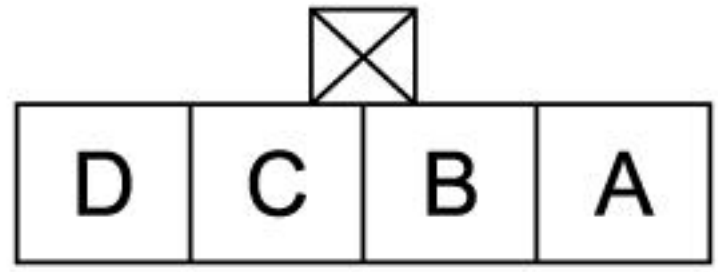
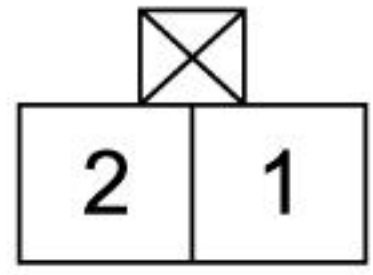
J-20 White	 Horn (RH)
J-22 Black	 Electronic Hydraulic Control Unit (EHCU)

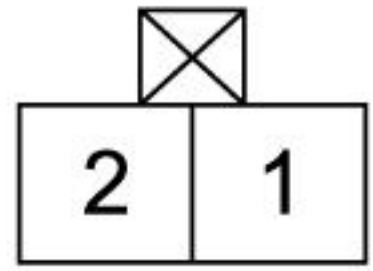
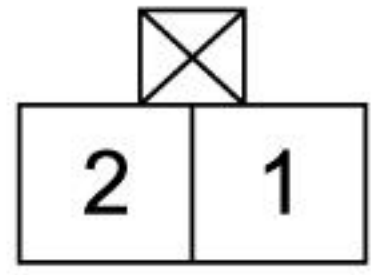
J-38 Black	 MAF and IAT Sensor
J-44 Black	 Wheel Speed Sensor Front Left

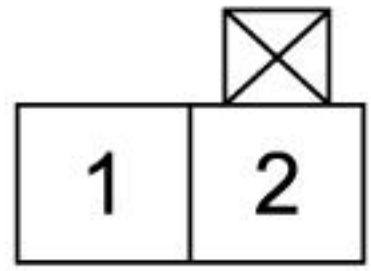
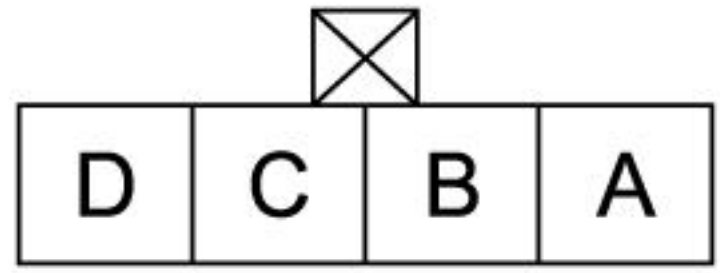
J-45 Black	 Wheel Speed Sensor Front Right
J-55 White	 Triple Pressure Switch

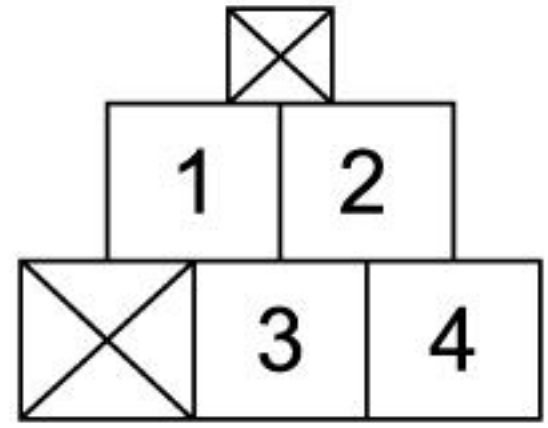
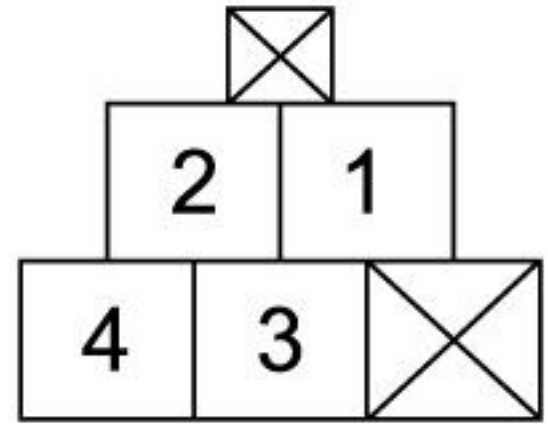
J-71 Green	 License Plate Light (A)
J-72 Green	 License Plate Light (B)

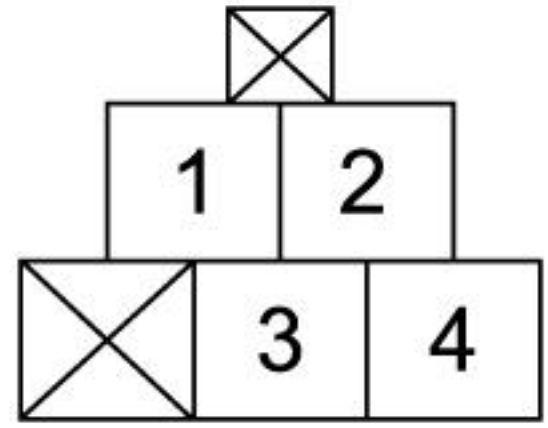
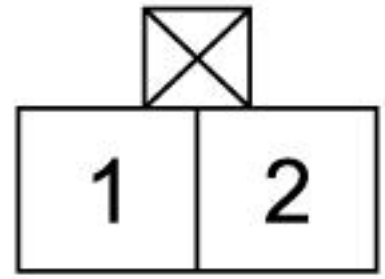
J-73 White	 RR Combination Light (LH)
J-74 White	 RR Combination Light (RH)

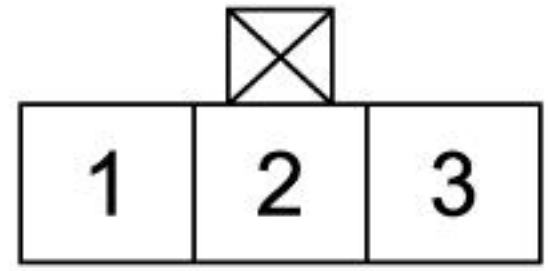
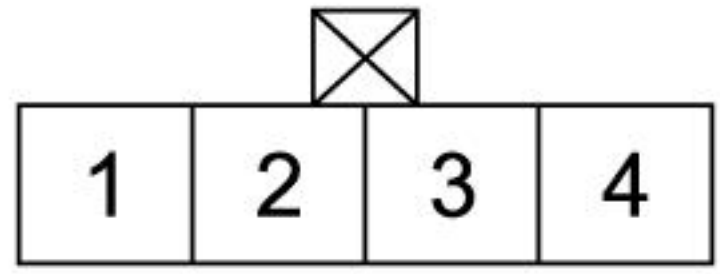
J-104 Black	 Front Manufacture Connector A
J-107 White	 Wheel Speed Sensor Rear Right

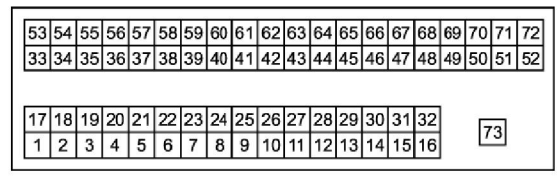
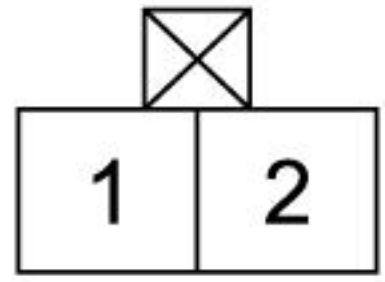
J-108 Black	 Wheel Speed Sensor Rear Left
J-111 Black	 Back Buzzer (Upfitter Install)

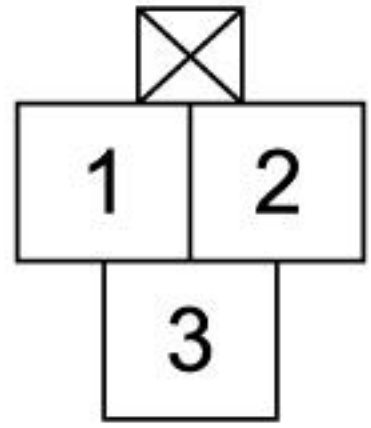
J-114	 Diode 2
J-118 Black	 Rear Manufacture Connector

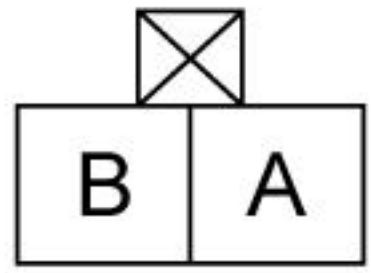
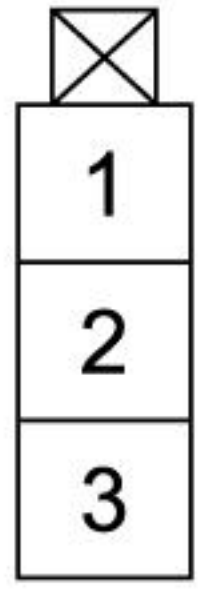
J-125 (Gray)	 RR Heater Sensor (LH)
J-126 (Black)	 Front Heater Sensor (RH)

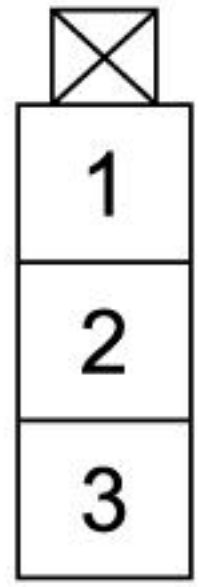
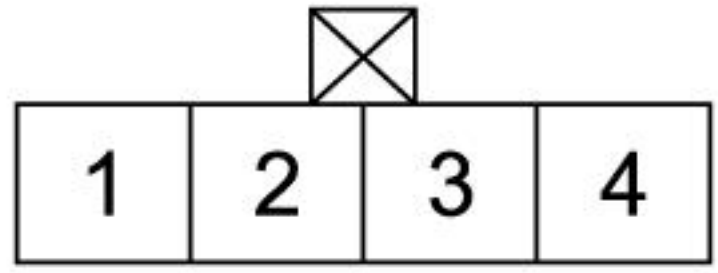
J-127 (Gray)	 Rear Heater Sensor (RH)
J-128 (Red)	 Fuel Ventilation Solenoid

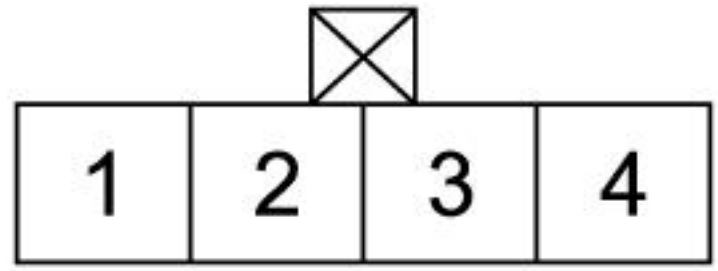
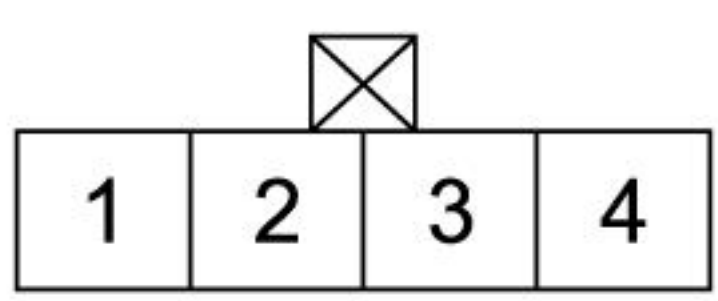
J-129 (Black)	 Fuel Vaper Sensor
J-130 (Black)	 Fuel Pump

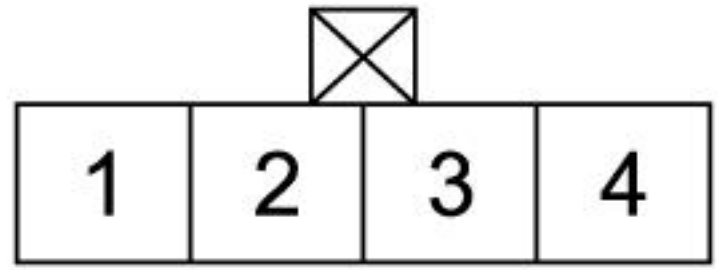
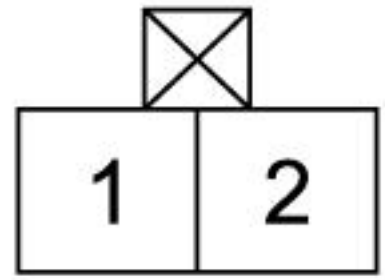
J-131 (Black)	 Powertrain Control Module (PCM).A
J-132 (Black)	 Terminator

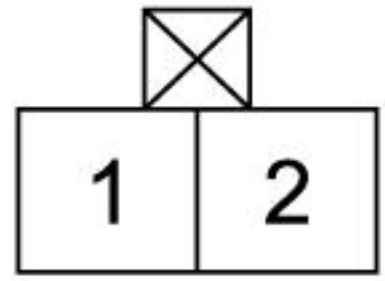
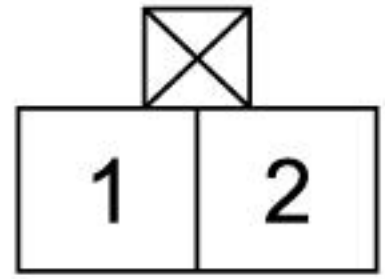
J-133 (Black)	 A/C Pressure Sensor
J-134	 AC Generator

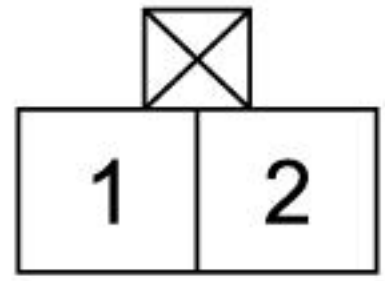
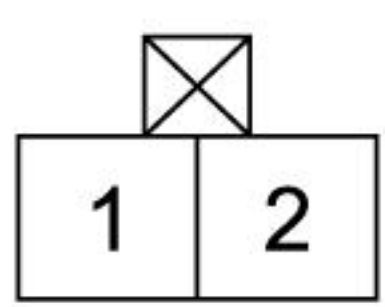
J-137 Black	 Front Manufacture Connector.B
L-4 White	 Dome Light

L-5 White	 Rear Dome Light
L-20 White	 J/C 3

L-21 White	 J/C 4
L-22 White	 J/C 5

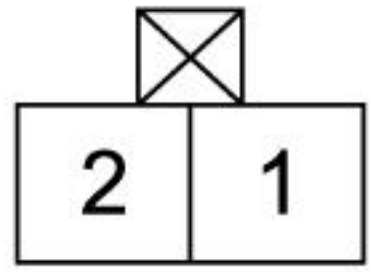
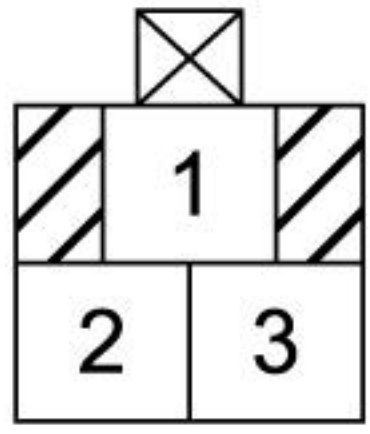
L-23 White	 J/C 7
L-24 White	 Marker 1

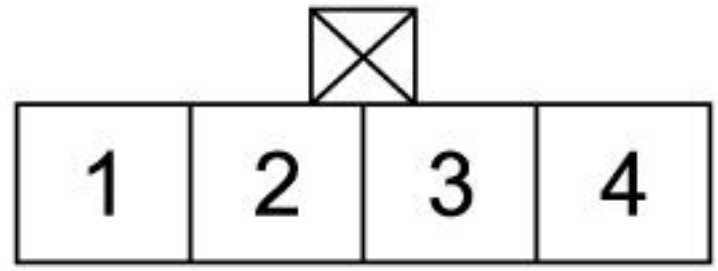
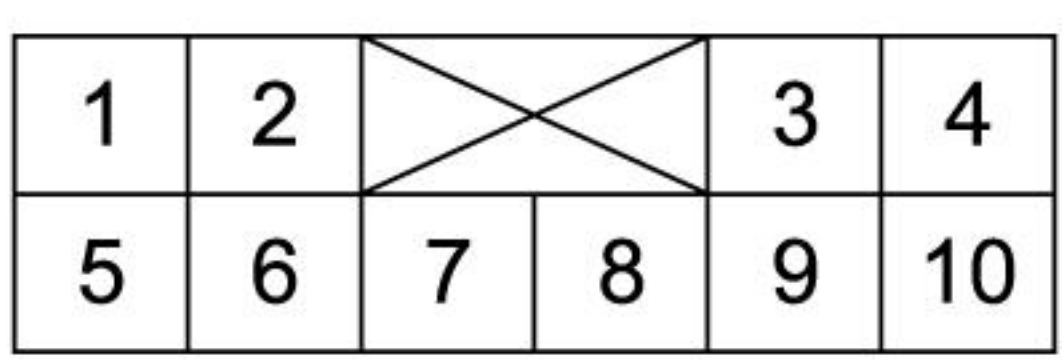
L-25 White	 Marker 2
L-26 White	 Identification Light 1

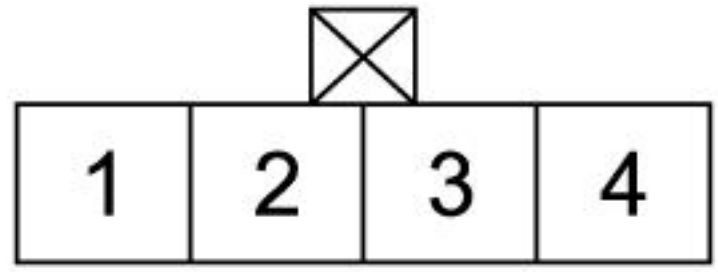
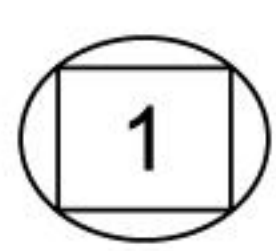
L-27 White	 Identification Light 2
L-28 White	 Identification Light 3

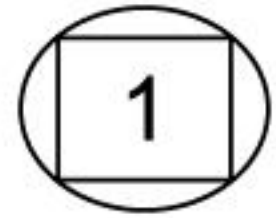
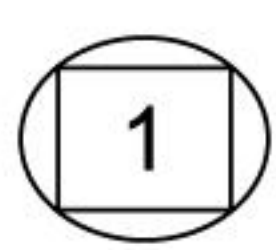
N-8 White	 Door Switch (RH) (C-Cab)
N-9 Black	 RR Door Switch (LH)

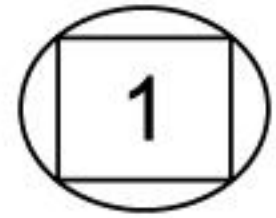
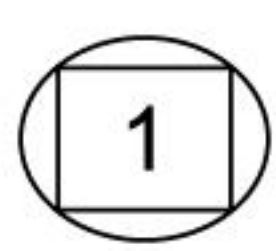
N-10 Black	 RR Door Switch (RH)
N-12 White	 Door Switch (LH)

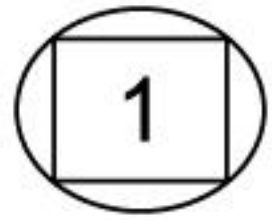
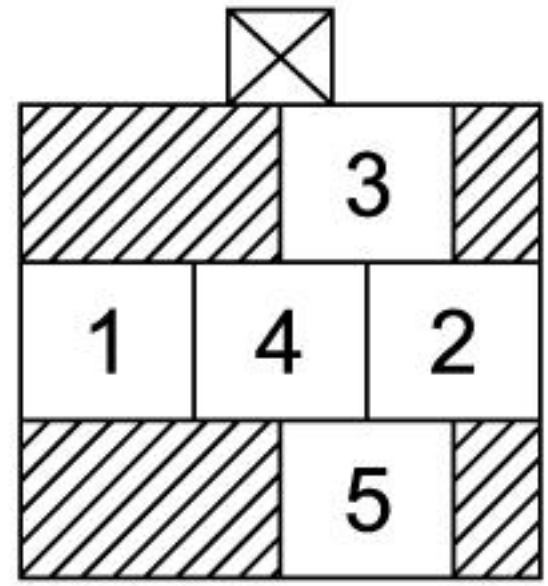
N-14 White	 Parking Brake Switch
N-31 White	 Rear Heater

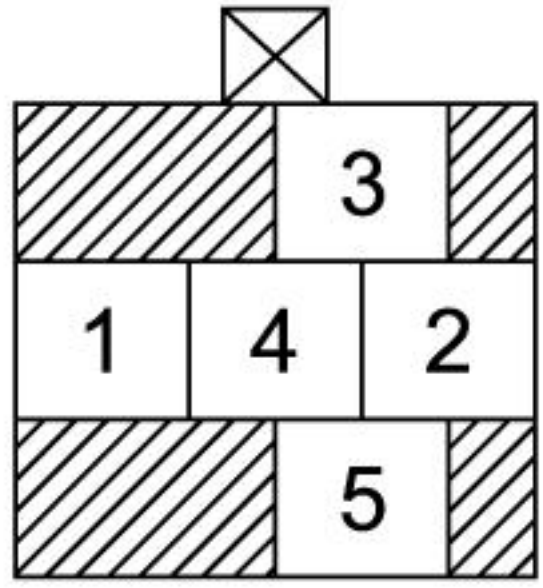
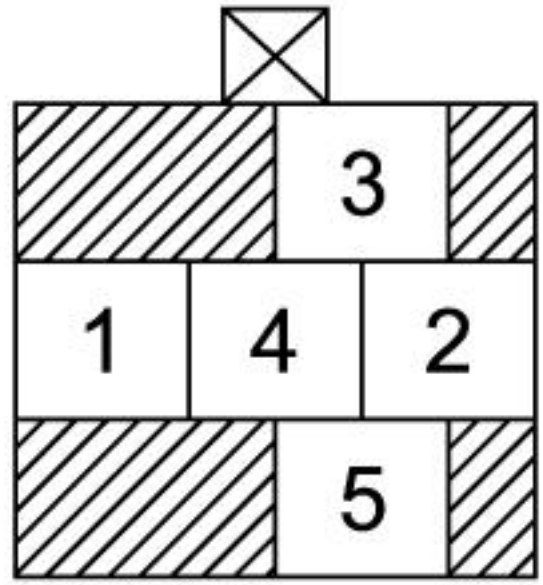
N-32 White	 J/C-29
N-33 White	 Shift Lever Switch .A

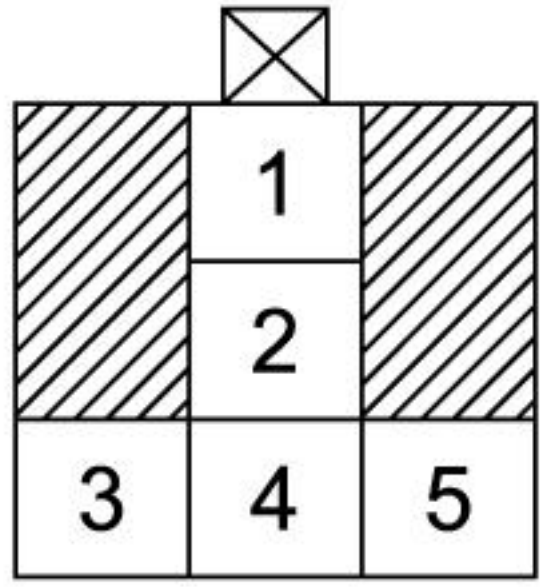
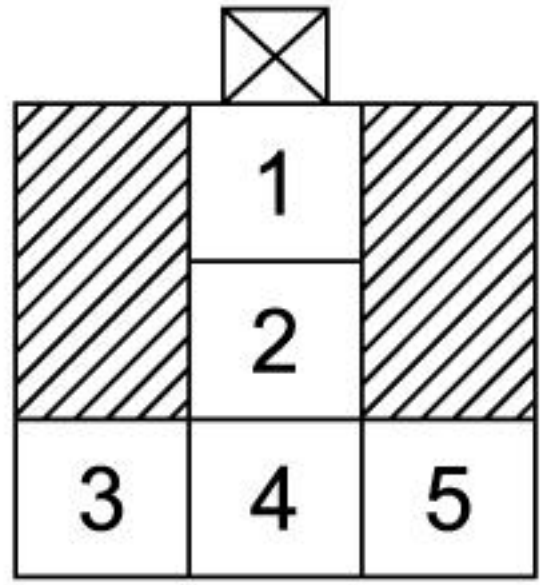
N-34 White	 Shift Lever Switch. B
P-1	 Battery Cable

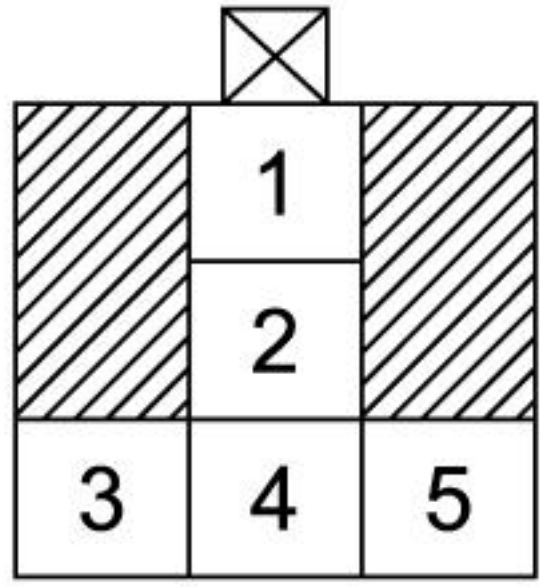
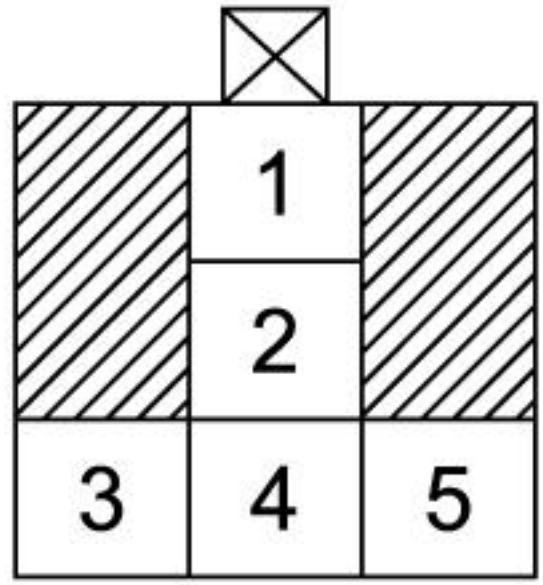
P-2	 Battery Cable
P-3	 Battery Cable

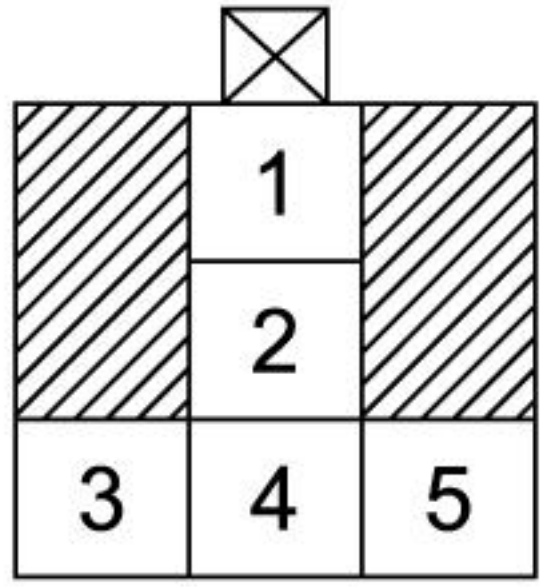
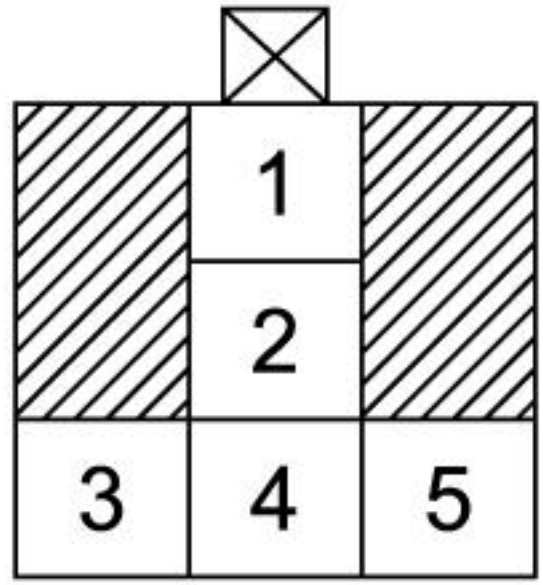
P-4	 Battery Cable
P-5	 Battery Cable

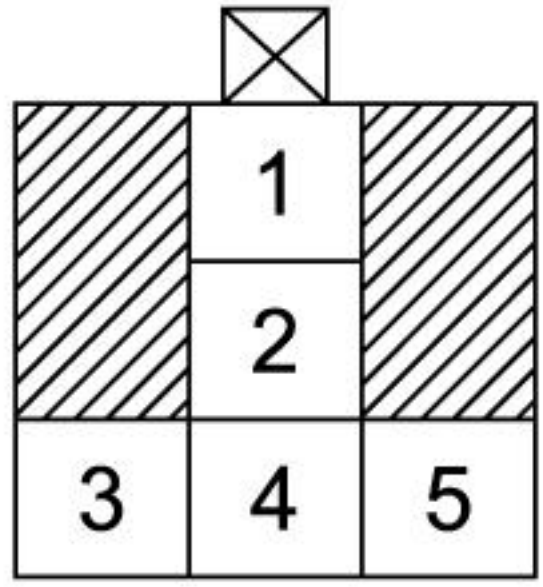
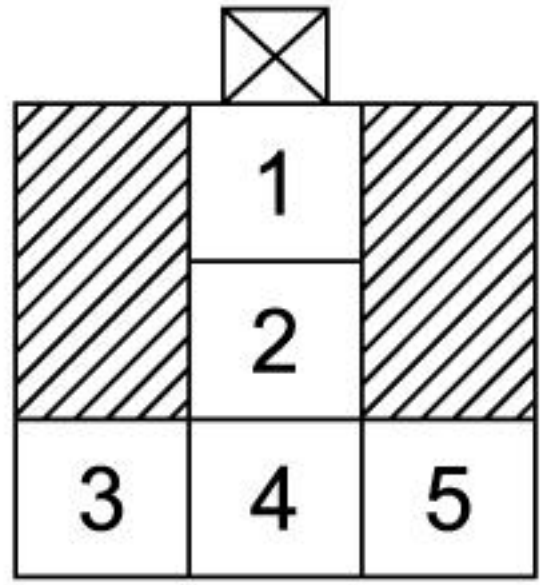
P-6	 Battery Cable
X-1	 Stoplight Relay

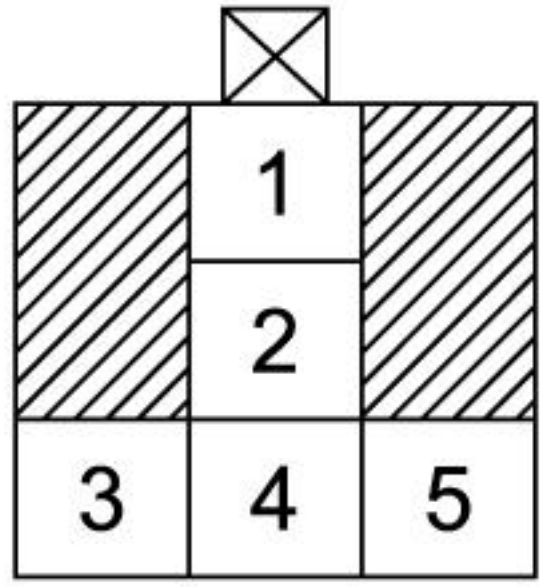
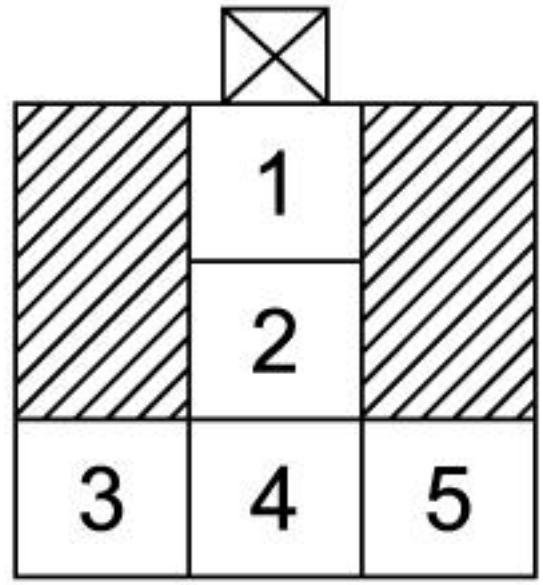
X-2	 Daytime Running Light (DRL) Relay
X-3	 Key On Relay

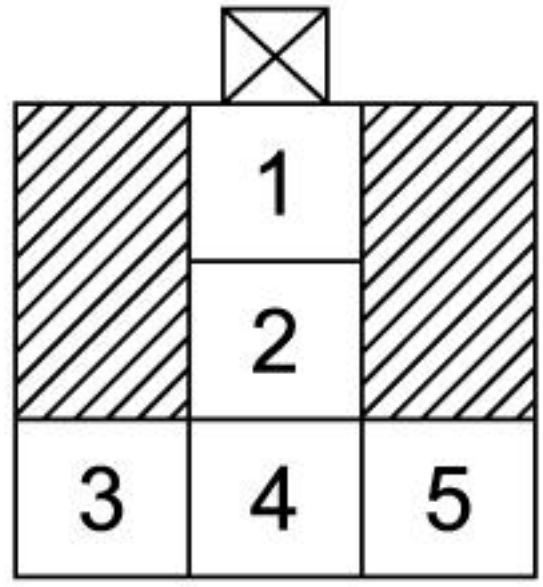
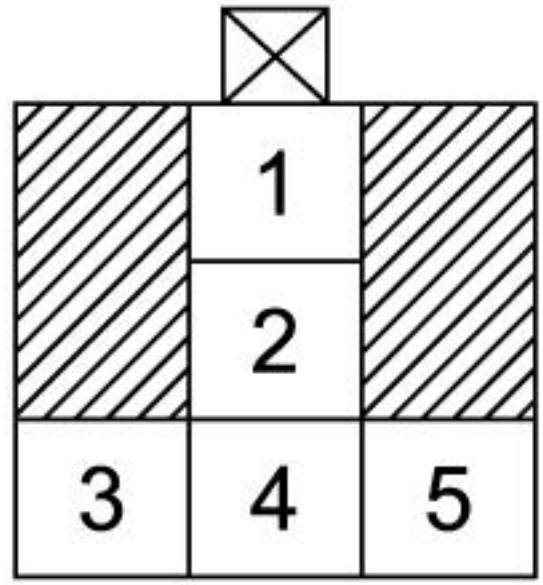
X-4	 TCM Relay
X-5	 P/N Start Relay

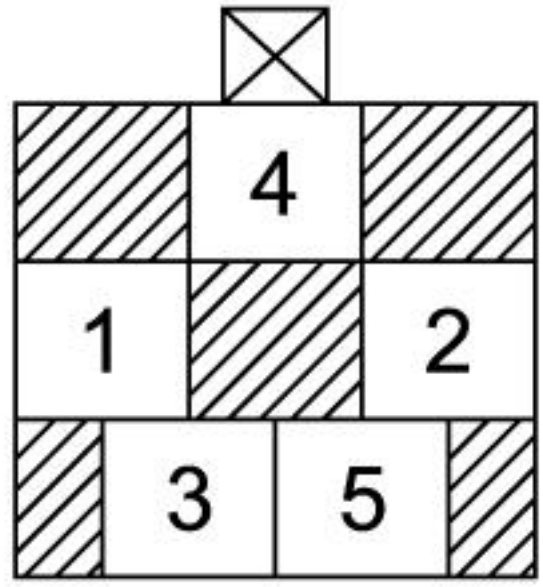
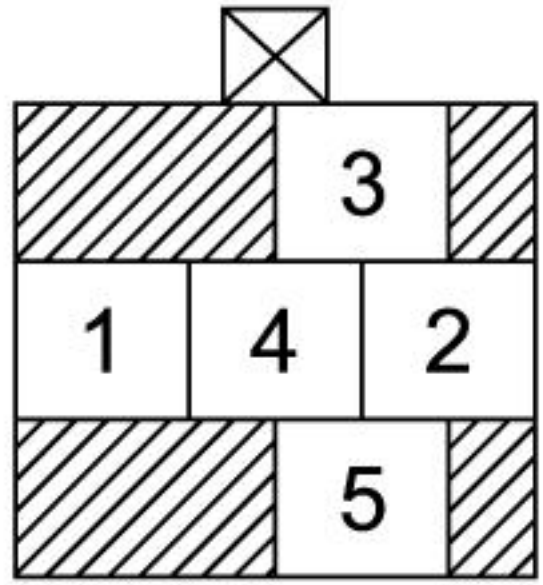
X-6	 Wiper Main Relay
X-7	 Horn Relay

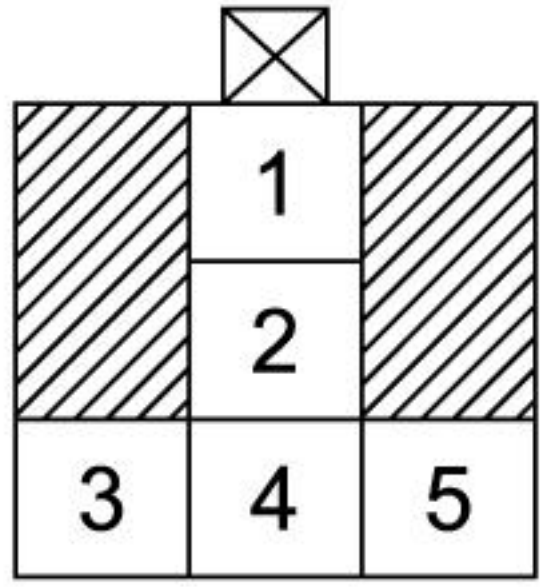
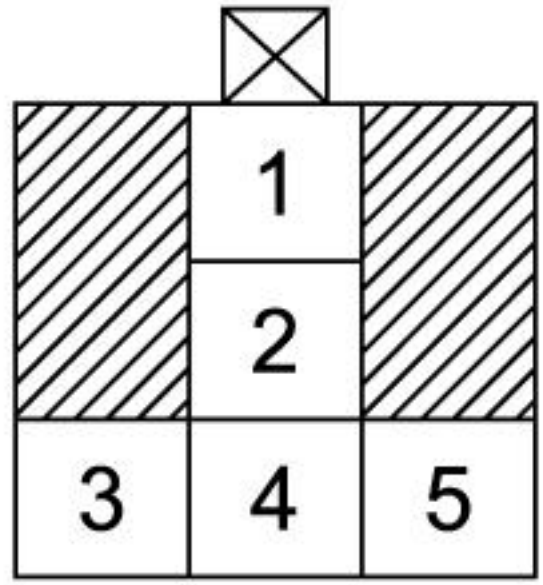
X-8	 Wiper High/Low Relay
X-10	 Rear Power Window Relay

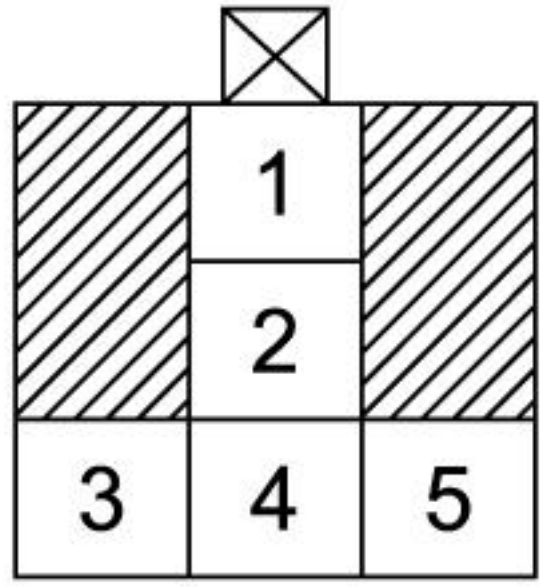
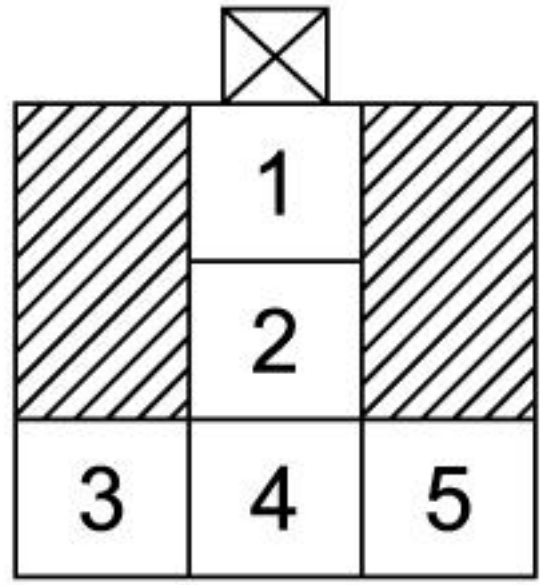
X-11	 Charge Relay
X-12	 Front Power Window Relay

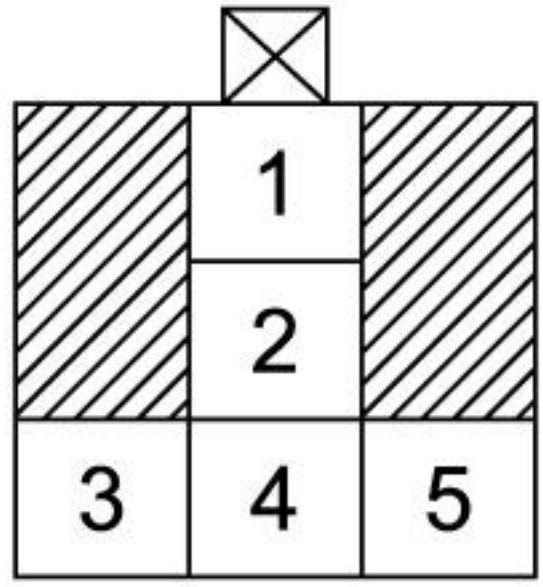
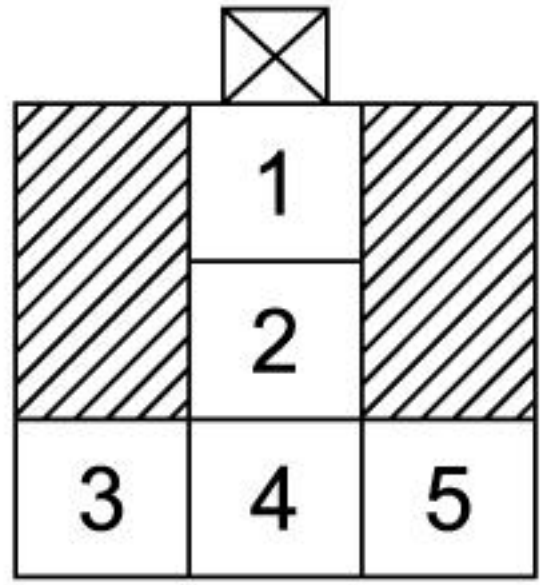
X-13	 Headlight(Low) Relay
X-14	 Vacuum Pump Relay

X-15	 Headlight (High) Relay
X-16	 Taillight Relay

X-17	 Starter Relay
X-20	 Magnetic Clutch Relay

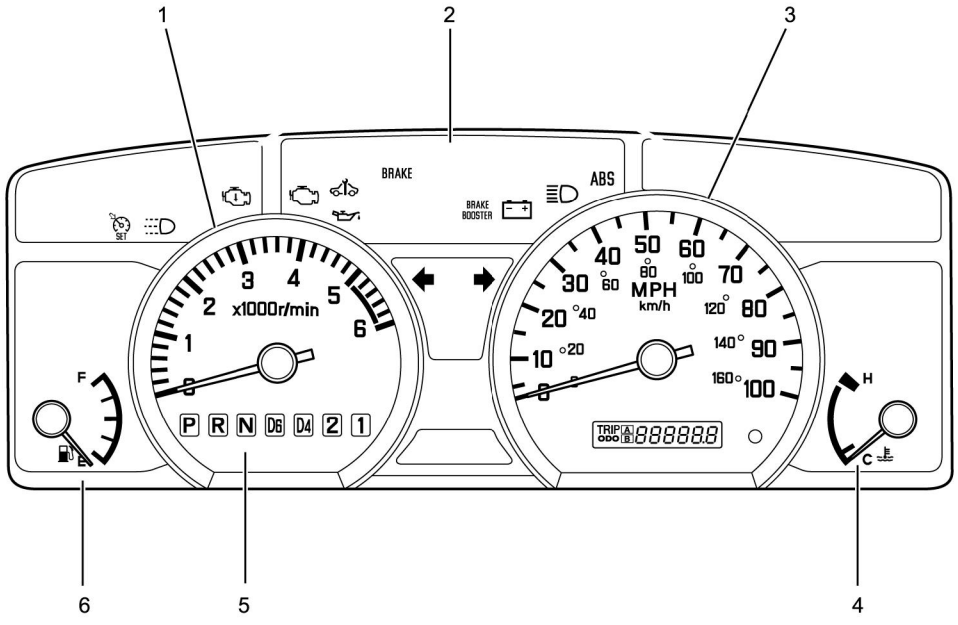
X-21	 Condenser Fan Relay
X-22	 Fuel Pump Relay

X-23	 Rear Dome Light Relay
X-26	 Marker Light Relay

X-28	 PCM Main Relay
X-30	 A/C Enable Relay

Instrument Panel (IP) Cluster

Layout For Gauges, Warning, Indicator And Illumination Lights



Warning/Indicator

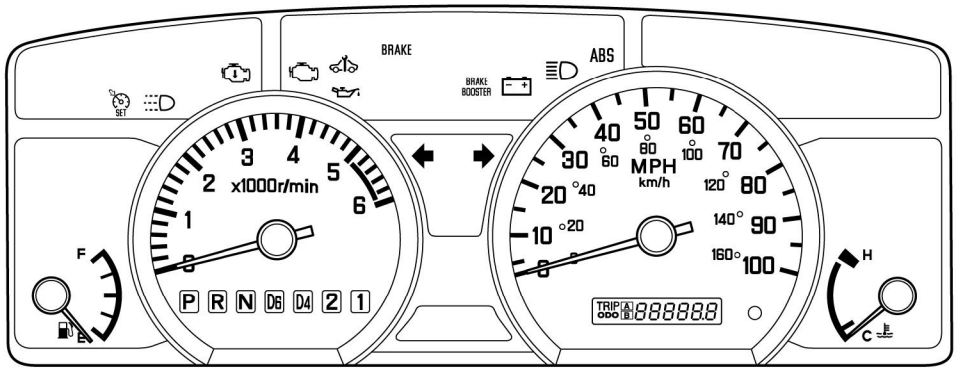
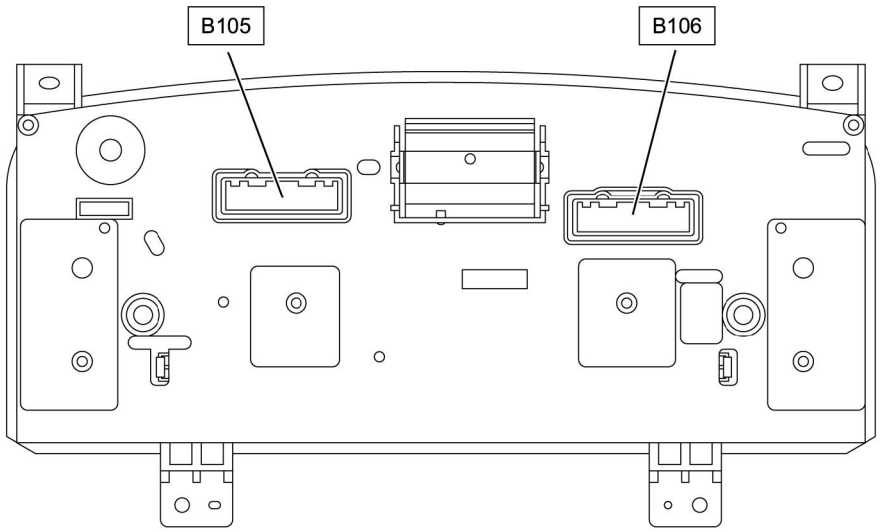


Table for Instrument Panel (LP) Cluster Connector Terminal Connections



B-105

Terminal No.	Connected to
1	Battery
2	Ignition
3	—
4	Power Ground
5	Signal Ground
6	Illumination (+)
7	—
8	Speed Signal
9	Tacho Pulse
10	Temp Input
11	Fuel Input
12	—
13	—
14	—
15	—
16	—
17	—
18	—
19	—
20	Parking / Neutral

21	Brake Oil Tank
22	Miles Check
23	Parking Brake Switch
24	—
25	High Beam
26	Turn RH
27	Turn LH
28	Brake Booster
29	—
30	—
31	Mil
32	Oil Pressure
33	Reduced Engine Power
34	Charge
35	—
36	—
37	EHCU
38	—
39	—
40	—

B-106

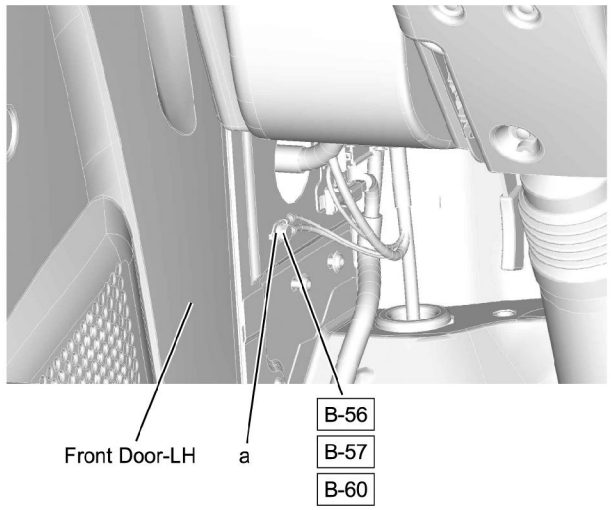
Terminal No.	Connected to
1	—
2	—
3	—
4	SVS
5	—
6	—
7	—
8	—

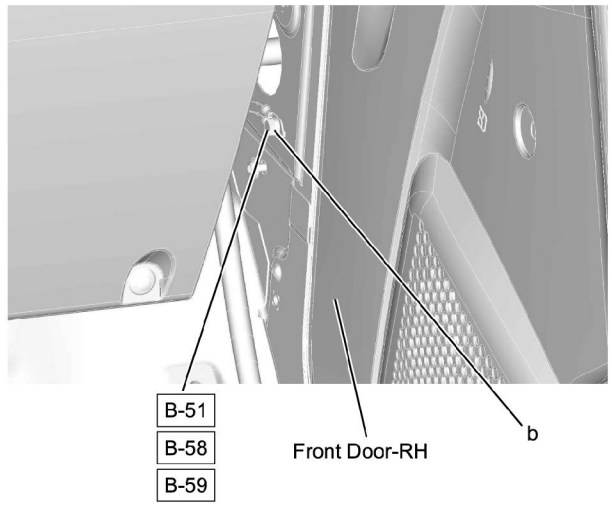
9	—
10	EHCU
11	—
12	—
13	—
14	—
15	—
16	Cruise Set
17	—
18	—
19	DRL Control Unit
20	—
21	—
22	—
23	—
24	—
25	—
26	—
27	A/T Shift Indicator P
28	A/T Shift Indicator R
29	A/T Shift Indicator N
30	A/T Shift Indicator D6
31	A/T Shift Indicator D4
32	A/T Shift Indicator 2
33	A/T Shift Indicator 1
34	—
35	—
36	—
37	EHCU
38	—

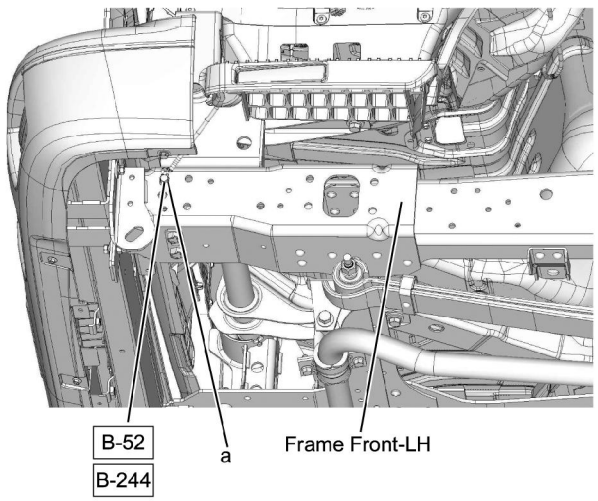
39	—
40	—

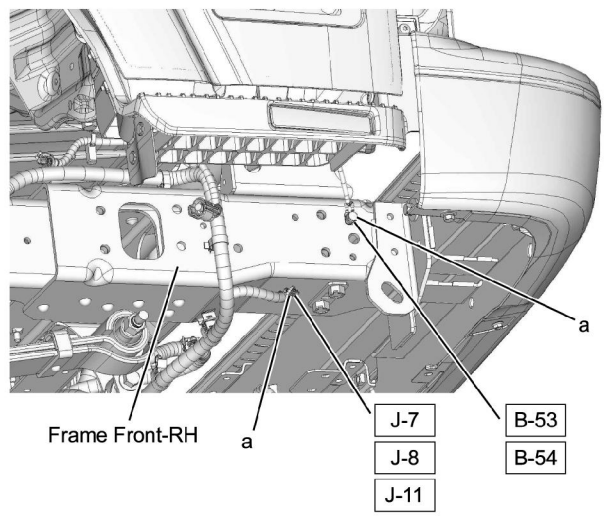
Component Locator

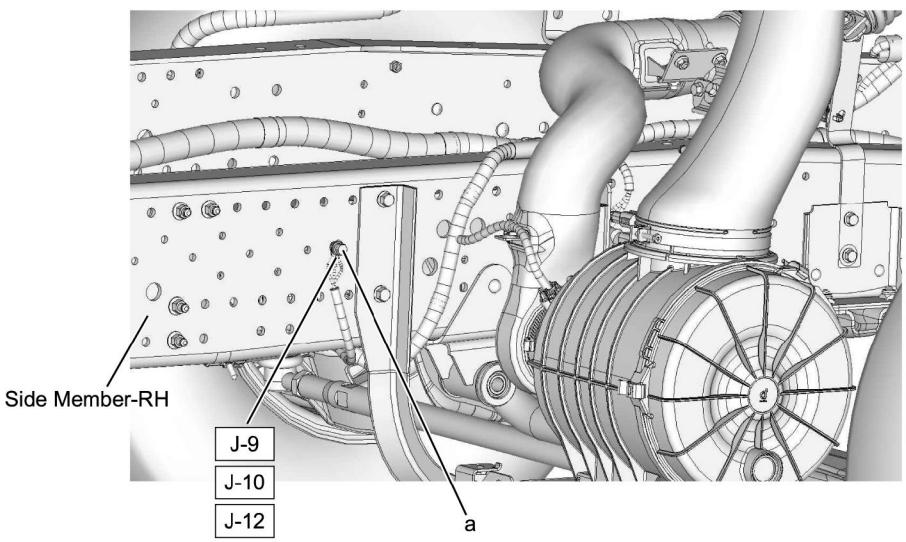
Ground Views

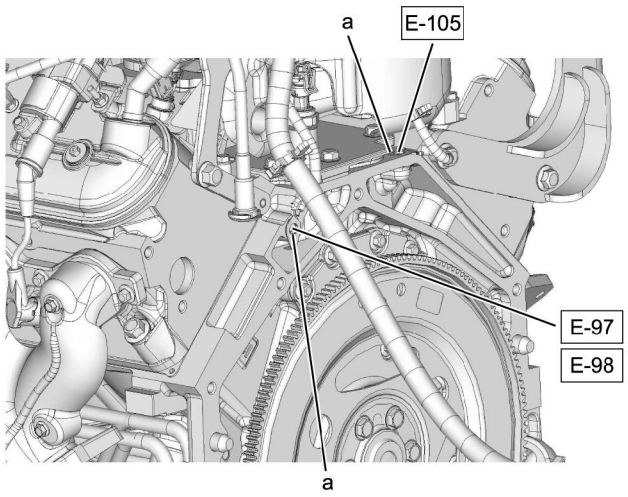


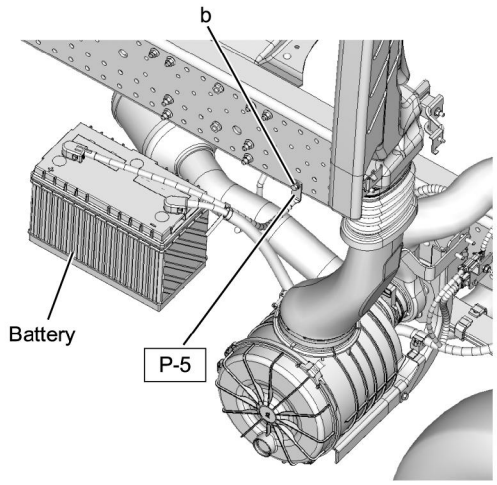


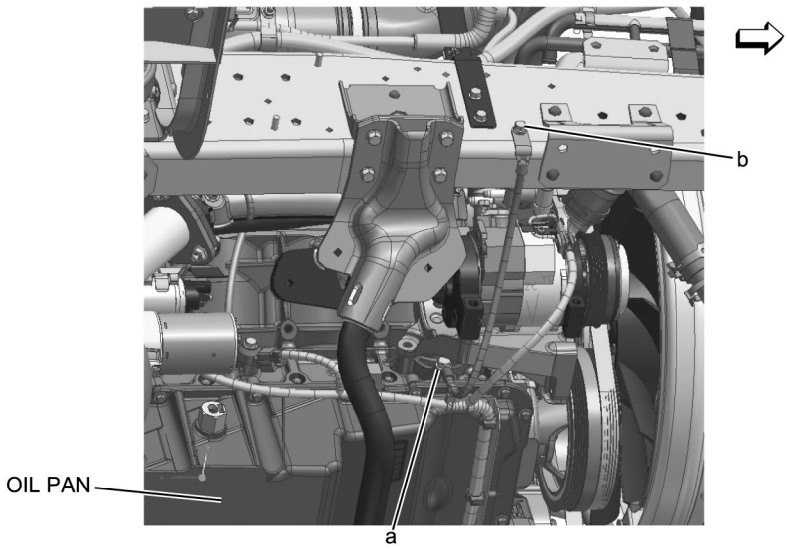






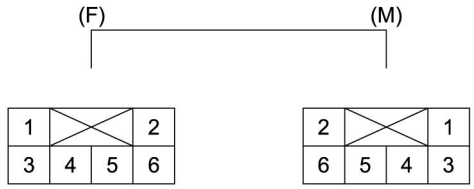

a
E-105
E-97
E-98
a


b
Battery
P-5


b
OIL PAN
a

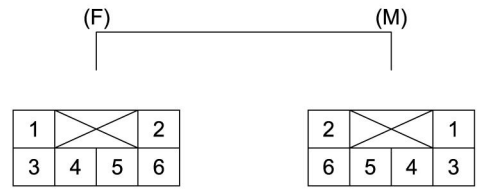
Visual Identification

Inline Harness Connector End Views



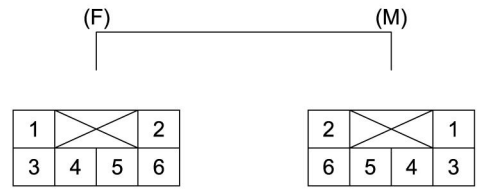
LNW78DSH000201

Connector No.	H-31			
Connector Color	White			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	BLK	Sub Junction Block B-259 (8)	BLK	Side Turn Signal Light (LH)
2	GRN/BLK	Sub Junction Block B-254 (11)	GRN/BLK	Side Turn Signal Light (LH)
3	GRN/RED	Sub Junction Block B-258 (12)	GRN/RED	Side Marker Light (LH)
4	ORN	Audio	ORN	Speaker (LH)
5	GRN/BLK	Combination Switch	GRN/BLK	Front Cornering Light (LH)
6	BLK	Audio	BLK	Speaker (LH)



LNW78DSH000201

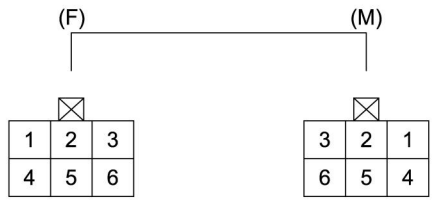
Connector No.	H-32			
Connector Color	White			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	BLK	Sub Junction Block B-259 (6)	BLK	Side Turn Signal Light (RH)
2	GRN/WHT	Sub Junction Block B-254 (10)	GRN/WHT	Side Turn Signal Light (RH)
3	GRN/RED	Sub Junction Block B-259 (1)	GRN/RED	Side Marker Light (RH)
4	GRY	Audio	GRY	Speaker (RH)
5	GRN/WHT	Combination Switch	GRN/WHT	Front Cornering Light (RH)
6	GRN	Audio	GRN	Speaker (RH)



LNW78DSH000201

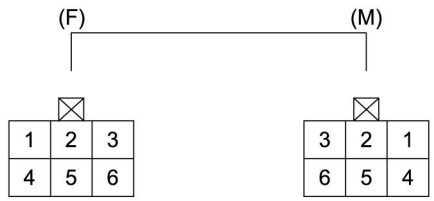
Connector No.	H-45			
Connector Color	White			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	RED	J/C-31	—	Not Used
2	RED	J/C-31	RED	Dome Light
3	GRY	J/C-30	GRY/BLU	Dome Light
4	GRN/RED	Sub Junction Block B-259 (3)	GRN/RED	J/C-7
5	GRY	J/C-30	—	Not Used
6	BLK	Sub Junction Block B-259(16)	BLK	J/C-5

	Male		Female (C-Cab)	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	—	—	RED	Rear Dome Light
2	—	—	RED	Dome Light
3	—	—	GRY/BLU	Dome Light
4	—	—	GRN/RED	J/C-7
5	—	—	GRY/BLU	Rear Dome Light
6	—	—	BLK	J/C-5



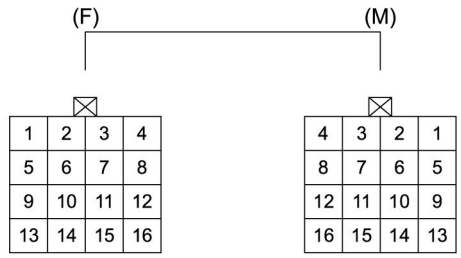
LNW78DSH000301

Connector No.	H-49			
Connector Color	White			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	RED/WHT	H-114 (3)	RED/WHT	Rear Power Window Switch (LH)
2	GRN/BLK	H-114 (2)	GRN/BLK	Rear Power Window Switch (LH)
3	GRN/YEL	H-114 (1)	GRN/YEL	Rear Power Window Switch (LH)
4	—	Not Used	—	Not Used
5	GRN/YEL	H-114 (8)	GRN/YEL	Rear Door Lock Motor (LH)
6	GRN/RED	H-114 (7)	GRN/RED	Rear Door Lock Motor (LH)



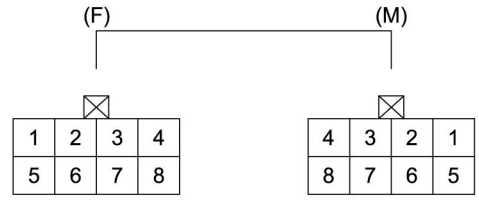
LNW78DSH000301

Connector No.	H-51			
Connector Color	White			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	RED/WHT	H-86 (10)	RED/WHT	Rear Power Window Switch (RH)
2	GRN	H-86 (9)	GRN/BLK	Rear Power Window Switch (RH)
3	BLU/YEL	H-86 (8)	GRN/YEL	Rear Power Window Switch (RH)
4	—	Not Used	—	Not Used
5	GRN/YEL	H-86 (6)	GRN/YEL	Rear Door Lock Motor (RH)
6	GRN/RED	H-86 (5)	GRN/RED	Rear Door Lock Motor (RH)



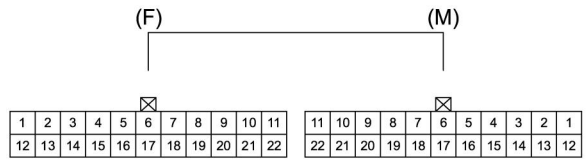
LNW78DSH000401

Connector No.	H-52			
Connector Color	White			
Test Adapter No.	(M) J-35616-12		(F) J-35616-13	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	BLU	H-113 (4)	BLU	Fuse PCM2 (20A)
2	VIO/WHT	Transmission Control Module (TCM)	VIO/WHT	Powertrain Control Module (PCM) A
3	RED/BLK	Transmission Control Module (TCM)	RED/BLK	H-81 (7)
4	BRN	Canister Purge Solenoid Valve	BRN	Fuse PCM3 (20A)
5	—	Not Used	—	Not Used
6	BLK/BLU	Transmission Control Module (TCM)	BLK/BLU	Powertrain Control Module (PCM) A
7	RED/YEL	Transmission Control Module (TCM)	RED/YEL	Powertrain Control Module (PCM) A
8	GRN/WHT	Transmission Control Module (TCM)	GRN	H-66 (2)
9	—	Not Used	—	Not Used
10	BRN	EA107 (1) Front Heater Sensor (LH)	BRN	Fuse PCM3 (20A)
11	GRN	Transmission Control Module (TCM)	GRN	H-83 (10)
12	GRN/WHT	Transmission Control Module (TCM)	GRN/WHT	H-83 (5)
13	YEL/BLK	H-112 (4)	YEL/BLK	Fuse PCM1 (20A)
14	—	Not Used	—	Not Used
15	GRN/WHT	Transmission Control Module (TCM)	GRN/WHT	Powertrain Control Module (PCM) A
16	GRN	Transmission Control Module (TCM)	GRN	Powertrain Control Module (PCM) A



LNW78DSH000601

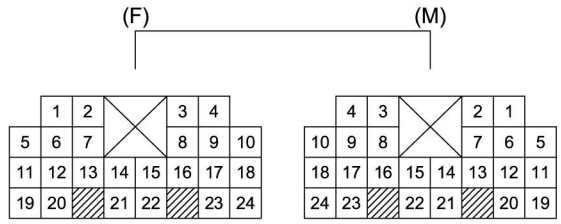
Connector No.	H-66			
Connector Color	Black			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	GRN/BLK	Rear Combination Light (LH)	GRN/BLK	H-81 (5)
2	GRN	Rear Combination Light (RH)	GRN	H-81 (6)
3	—	Not Used	—	Not Used
4	—	Not Used	—	Not Used
5	GRN/RED	License Plate Light.A	GRN/RED	Marker Light Relay
6	RED/BLU	Rear Combination Light (LH)	RED/BLU	H-81 (23)
7	BLK	Rear Combination Light (RH)	BLK	Earth Body 12
8	GRN/WHT	Rear Combination Light (RH)	GRN/WHT	H-81 (3)



LNW78DSH004101

Connector No.	H-80			
Connector Color	Black			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	LT GRN/BLU	Data Link Connector	LT GRN/BLU	Electronic Hydraulic Control Unit (EHCU)
2	BLU	Instrument Panel (IP) Cluster.B	BLU	Electronic Hydraulic Control Unit (EHCU)
3	BLK/BLU	Master Cylinder Pressure Sensor	BLK/BLU	Electronic Hydraulic Control Unit (EHCU)
4	BLK/ORN	Master Cylinder Pressure Sensor	BLK/ORN	Electronic Hydraulic Control Unit (EHCU)
5	VIO	Accelerator Pedal Position Sensor	VIO	Powertrain Control Module (PCM).A
6	—	Not Used	—	Not Used
7	WHT	Accelerator Pedal Position Sensor	WHT	Powertrain Control Module (PCM).A
8	RED/WHT	Accelerator Pedal Position Sensor	RED/WHT	Powertrain Control Module (PCM).A
9	GRY	Electronic Thermostat	GRY	Magnetic Clutch Relay
10	GRN/RED	Cab Junction Block1 B-19 (10)	GRN/RED	Marker Light Relay
11	BLK/YEL	Cab Junction Block1 B-20 (4)	BLK/YEL	Electronic Hydraulic Control Unit (EHCU)
12	LT GRN/RED	Data Link Connector	LT GRN/RED	Electronic Hydraulic Control Unit (EHCU)
13	WHT/VIO	Instrument Panel (IP) Cluster.A	WHT/VIO	Electronic Hydraulic Control Unit (EHCU)

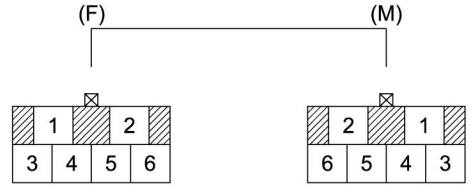
				(EHCU)
14	BLK/WHT	Master Cylinder Pressure Sensor	BLK/WHT	Electronic Hydraulic Control Unit (EHCU)
15	—	Not Used	—	Not Used
16	—	Not Used	—	Not Used
17	BLU/WHT	Accelerator Pedal Position Sensor	BLU/WHT	Powertrain Control Module (PCM).A
18	VIO/RED	Accelerator Pedal Position Sensor	VIO/RED	Powertrain Control Module (PCM).A
19	RED/BLU	Accelerator Pedal Position Sensor	RED/WHT	Powertrain Control Module (PCM).A
20	YEL	Sub Junction Block B-257 (1)	YEL	Rear Dome Light Relay
21	RED	Rear Dome Light Switch	RED	Rear Dome Light Relay
22	BLK/RED	Sub Junction Block B-258 (13)	BLK/RED	Magnetic Clutch Relay



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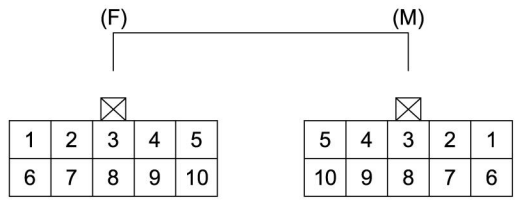
Connector No.	H-81			
Connector Color	Green			
Test Adapter No.	(M) J-35616-12/J-35616-40		(F) J-35616-13/J-35616-41	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	RED/BLK	Cab Junction Block1 B-18 (9)	RED/BLK	Horn (LH)
2	—	Not Used	—	Not Used
3	GRN/WHT	Sub Junction Block B-256 (11)	GRN/WHT	H-66 (8)
4	—	Not Used	—	Not Used
5	GRN/BLK	Sub Junction Block B-256 (12)	GRN/BLK	H-66 (1)
6	GRN	Cab Junction Block1 B-22 (4)	GRN	H-66 (2)
7	RED/BLK	Cab Junction Block B-15 (3)	RED/BLK	H-52 (3)
8	BLU/ORN	Stoplight Switch	BLU/ORN	Powertrain Control Module (PCM).A
9	YEL/BLK	Instrument Panel (IP) Cluster.A	YEL/BLK	Powertrain Control Module (PCM).A
10	RED/YEL	Sub Junction Block B-256 (6)	RED/YEL	Powertrain Control Module (PCM).A
11	GRN/BLK	Weld Splice 8	GRN/BLK	Fuse Tail Main (20A)
12	BRN/YEL	PIM.B	BRN/YEL	Triple Pressure Switch
13	—	Not Used	—	Not Used
14	WHT/RED	Weld Splice 7	WHT/RED	SBF Headlight (30A)
15	BLK/RED	Cab Junction Block1 B-25 (1)	BLK/RED	SBF Starter Switch 1 (30A)
16	—	Not Used	—	Not Used

17	RED/BLK	Cab Junction Block1 B-16 (4)	BRN/ORN	Powertrain Control Module (PCM).A
18	BLK/BLU	Sub Junction Block B-257 (9)	BLK/BLU	Powertrain Control Module (PCM).A
19	GRN/BLK	Weld Splice 8	GRN/BLK	Fuse Tail Main (20A)
20	—	Not Used	—	Not Used
21	BLK/YEL	Weld Splice 5	BLK/YEL	SBF Junction Block (50A)
22	WHT/BLK	Cab Junction Block1 B-26 (2)	WHT/BLK	SBF Wiper (50A)
23	RED/BLU	Sub Junction Block B-259 (12)	RED/BLU	H-66 (6)
24	—	Not Used	—	Not Used



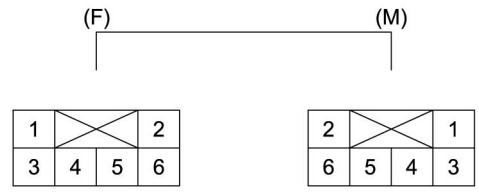
LNW78DSH004301

Connector No.	H-82			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-12/J-35616-44		(F) J-35616-13/J-35616-45	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	WHT/BLK	Blower Relay	WHT/BLK	SBF HVAC (40A)
2	RED/BLK	Power Accessory Relay	RED/BLK	SBF POWER ACC (50A)
3	—	Not Used	—	Not Used
4	—	Not Used	—	Not Used
5	BLK/YEL	Weld Splice 6	BLK/YEL	SBF Starter Switch 2 (40A)
6	BLK/YEL	Weld Splice 6	BLK/YEL	SBF Starter Switch 2 (40A)



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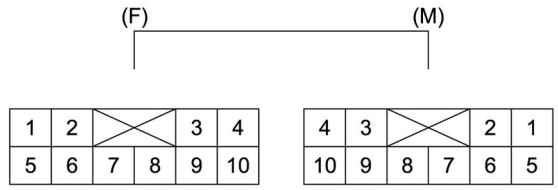
Connector No.	H-83			
Connector Color	White			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	BLU	PIM.A	BLU	Electronic Hydraulic Control Unit (EHCU)
2	—	Not Used	—	Not Used
3	—	Not Used	—	Not Used
4	—	Not Used	—	Not Used
5	GRN/WHT	PIM.B	GRN/WHT	H-52 (12)
6	BLU/WHT	PIM.A	BLU/WHT	Electronic Hydraulic Control Unit (EHCU)
7	—	Not Used	—	Not Used
8	—	Not Used	—	Not Used
9	—	Not Used	—	Not Used
10	GRN	PIM.B	GRN	H-52 (11)



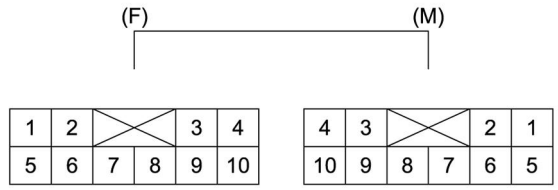
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Connector No.	H-85			
Connector Color	Black			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	LT GRN/RED	Shift Lever Switch.B	LT GRN/RED	Sub Junction Block B-255 (7)
2	YEL/RED	Door Switch (LH)	GRY	J/C-30
3	LT GRN/BLK	Shift Lever Switch.B	LT GRN/BLK	Sub Junction Block B-253 (18)
4	WHT/BLK	Parking Brake Switch	WHT/BLK	Sub Junction Block B-254 (16)
5	—	Not Used	—	Not Used
6	—	Not Used	RED/YEL	Weld Splice 11

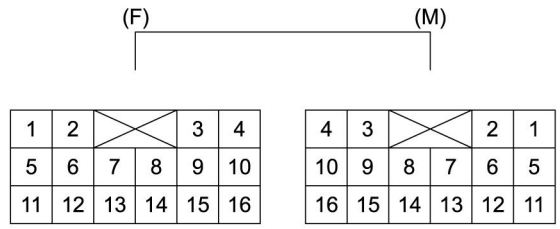
	Male (C-Cab)		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	LT GRN/RED	Shift Lever Switch.B	—	—
2	GRY	J/C-29	—	—
3	LT GRN/BLK	Shift Lever Switch.B	—	—
4	WHT/BLK	Parking Brake Switch.B	—	—
5	—	Not Used	—	—
6	RED/YEL	Rear Heater	—	—



Connector No.	H-86			
Connector Color	White			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	GRY	J/C-30	GRY	Door Switch (RH)
2	—	Not Used	—	Not Used
3	—	Not Used	—	Not Used
4	—	Not Used	—	Not Used
5	GRN/RED	Sub Junction Block B-253 (15)	GRN/RED	H-51 (6)
6	GRN/YEL	Cab Junction Block1 B-16 (9)	GRN/YEL	H-51 (5)
7	—	Not Used	—	Not Used
8	BLU/YEL	Rear Power Window Switch (RH)	BLU/YEL	H-51 (3)
9	GRN	Rear Power Window Switch (RH)	GRN	H-51 (2)
10	RED/WHT	Weld Splice 12	RED/WHT	H-51 (1)

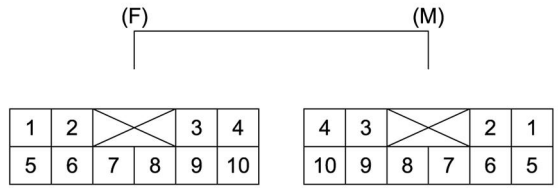


Connector No.	H-87			
Connector Color	White			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	BLK	J/C-EA 10P1	BLK	Mirror Heater (RH)
2	GRN/RED	Sub Junction Block B-254 (6)	GRN/RED	Front Door Lock Motor (RH)
3	BLK/RED	Sub Junction Block B-254 (6)	BLK/RED	Front Cornering Light (RH)
4	BLU/WHT	H-92 (16)	BLU/WHT	Front Power Window Switch (RH)
5	BLK	J/C-EA 10P1	BLK	Side Marker Light (RH)
6	BRN/YEL	Cab Junction Block1 B-15 (5)	BRN/YEL	Front Power Window Switch (RH)
7	GRN/YEL	Cab Junction Block1 B-22 (6)	GRN/YEL	Front Door Lock Motor (RH)
8	BLU/RED	H-92 (4)	BLU/RED	Front Power Window Switch (RH)
9	RED/YEL	Mirror Heater Switch	RED/YEL	Mirror Heater (RH)
10	—	Not Used	—	Not Used

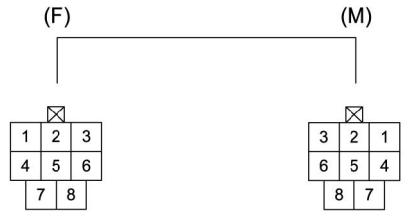


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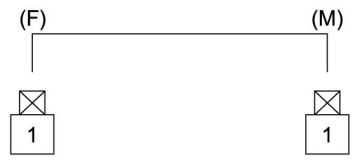
Connector No.	H-92			
Connector Color	Black			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	GRN/BLK	Cab Junction Block1 B-17 (6)	GRN/BLK	Front Door Lock Motor (LH)
2	BLK/RED	Sub Junction Block B-254 (18)	BLK/RED	Front Cornering Light (LH)
3	—	Not Used	—	Not Used
4	BLU/RED	H-87 (8)	BLU/RED	Front Power Window Switch (LH)
5	GRN/RED	Sub Junction Block B-253 (5)	GRN/RED	Front Door Lock Motor (LH)
6	—	Not Used	—	Not Used
7	BRN/YEL	Cab Junction Block1 B-23 (2)	BRN/YEL	Front Power Window Switch (LH)
8	RED/YEL	Cab Junction Block1 B-17 (8)	RED/YEL	Mirror Heater (LH)
9	BLK	J/C-EA 10P2	BLK	Mirror Heater (LH)
10	BLK	J/C-30P	BLK	Front Door Lock Motor (LH)
11	BLK	J/C-EA 10P2	BLK	Front Power Window Switch (LH)
12	—	Not Used	—	Not Used
13	GRN/YEL	Cab Junction Block1 B-21 (9)	GRN/YEL	Front Door Lock Motor (LH)
14	—	Not Used	—	Not Used
15	BLK	J/C-30P	BLK	Side Marker Light (LH)
16	BLU/WHT	H-87 (4)	BLU/WHT	Front Power Window Switch (LH)



Connector No.	H-93			
Connector Color	White			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	BLU/YEL	Shift Lever Switch.A	BLU/YEL	Instrument Panel (IP) Cluster.B
2	BLU	Shift Lever Switch.A	BLU	Instrument Panel (IP) Cluster.B
3	RED/BLU	Shift Lever Switch.A	RED/BLU	Sub Junction Block B-260 (12)
4	WHT/RED	Shift Lever Switch.A	WHT/RED	Instrument Panel (IP) Cluster.B
5	BLK/RED	Shift Lever Switch.A	BLK/RED	Sub Junction Block B-258 (2)
6	GRN/YEL	Shift Lever Switch.A	GRN/YEL	Cab Junction Block B-21 (10)
7	RED/BLK	Shift Lever Switch.A	RED/BLK	J/C-30P
8	BLU/BLK	Shift Lever Switch.A	BLU/BLK	Instrument Panel (IP) Cluster.B
9	BLU/WHT	Shift Lever Switch.A	BLU/WHT	Instrument Panel (IP) Cluster.B
10	BLU/RED	Shift Lever Switch.A	BLU/RED	Instrument Panel (IP) Cluster.B



Connector No.	H-109			
Connector Color	Black			
Test Adapter No.	(M) J-35616-18/J-35616-42		(F) J-35616-19/J-35616-43	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	BLU	A/C Compressor	BLU	A/C Enable Relay
2	—	Not Used	—	Not Used
3	—	Not Used	—	Not Used
4	BLU	Powertrain Control Module (PCM).B	BLU	Heater O² Sensor (FRT RH)
5	BLU/BLK	Powertrain Control Module (PCM).B	BLU/BLK	Heater O² Sensor (FRT RH)
6	BLU/RED	Powertrain Control Module (PCM).B	BLU/RED	Heater O² Sensor (FRT RH)
7	BLK	Earth Body 26	BLK	Powertrain Control Module (PCM).A
8	—	Not Used	—	Not Used



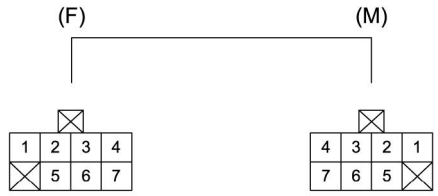
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Connector No.	H-110			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-42		(F) J-35616-43	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	BLK/WHT	Starter Relay	BLK/WHT	Starter

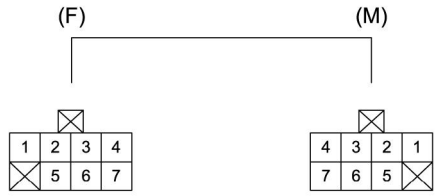


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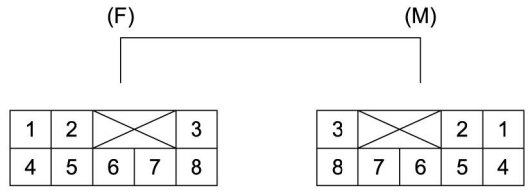
Connector No.	H-111			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-42		(F) J-35616-43	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	WHT	Relay Box	BLU	Battery
2	WHT	AC Generator	BLU	Battery



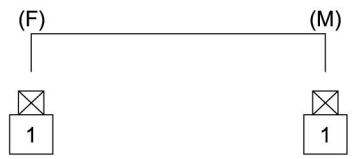
Connector No.	H-112			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-33		(F) J-35616-34	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	—	—	BRN	Powertrain Control Module (PCM).B
2	—	—	LT BLU	Powertrain Control Module (PCM).B
3	—	—	VIO	Powertrain Control Module (PCM).B
4	—	—	YEL/BLK	H-52 (13)
5	—	—	DAK GRN	Powertrain Control Module (PCM).B
6	—	—	ORN	Powertrain Control Module (PCM).B
7	—	—	BLK	Earth Body 25



Connector No.	H-113			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-33		(F) J-35616-34	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	—	—	BRN	Powertrain Control Module (PCM).B
2	—	—	LT BLU/WHT	Powertrain Control Module (PCM).B
3	—	—	VIO/WHT	Powertrain Control Module (PCM).B
4	—	—	BLU	H-52 (1)
5	—	—	DAK GRN/WHT	Powertrain Control Module (PCM).B
6	—	—	ORN/WHT	Powertrain Control Module (PCM).B
7	—	—	BLK	Earth Body 25



Connector No.	H-114			
Connector Color	White			
Test Adapter No.	(M) J-35616-2A		(F) J-35616-3	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	GRN/YEL	H-49 (3)	GRN/YEL	Rear Power Window Switch (LH)
2	GRN/BLK	H-49 (2)	GRN/BLK	Rear Power Window Switch (LH)
3	RED/WHT	H-49 (1)	RED/WHT	Weld Splice 12
4	—	Not Used	—	Not Used
5	—	Not Used	—	Not Used
6	—	Not Used	—	Not Used
7	GRN/RED	H-49 (6)	GRN/RED	Sub Junction Block B-253 (14)
8	GEN/YEL	H-49 (5)	GEN/YEL	Cab Junction Block 1 B-20 (7)



Connector No.	H-170			
Connector Color	Light Gray			
Test Adapter No.	(M) J-35616-44		(F) J-35616-45	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	RED/GRN	Relay Box FL-14 ETB	RED/GRN	EXT_ETB No.1

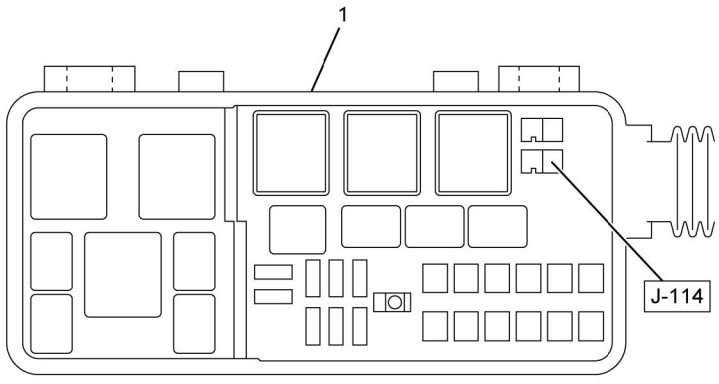


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Connector No.	H-172			
Connector Color	Black			
Test Adapter No.	(M) J-35616-42		(F) J-35616-43	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	GRN	H-101 (3)	—	—
2	GRN/RED	H-101 (5)	—	—
3	GRN/BLK	H-101 (1)	—	—
4	GRN/WHT	H-101 (2)	—	—
5	BLK	Weld Splice 4	—	—
6	—	Not Used	—	—
7	—	Not Used	—	—
8	RED/WHT	Relay Box Fuse FL-16 Towing Converter	—	—

Component Locator

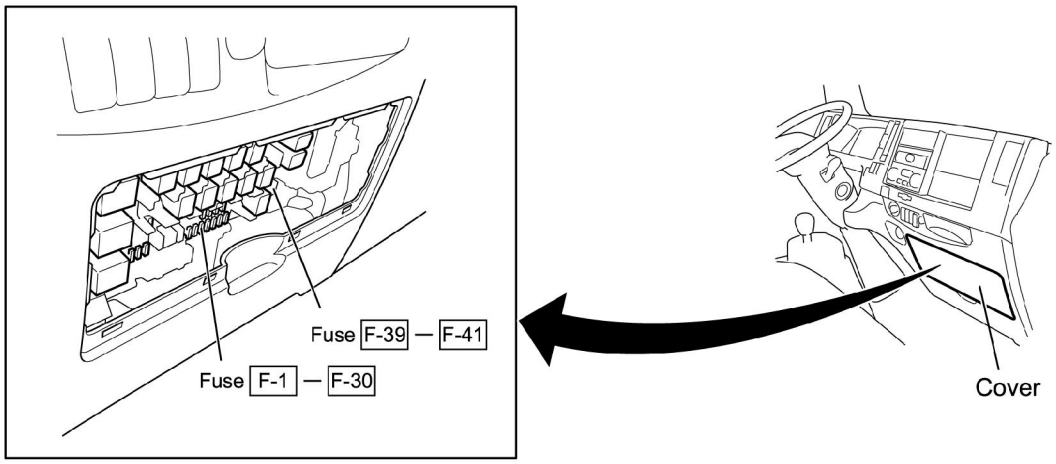
Diode Location



Connector No.	Usage
J-114	A/C

Fuse, Fusible Link, and Slow-Blow Fuse Location

Fuse and Fuse Label

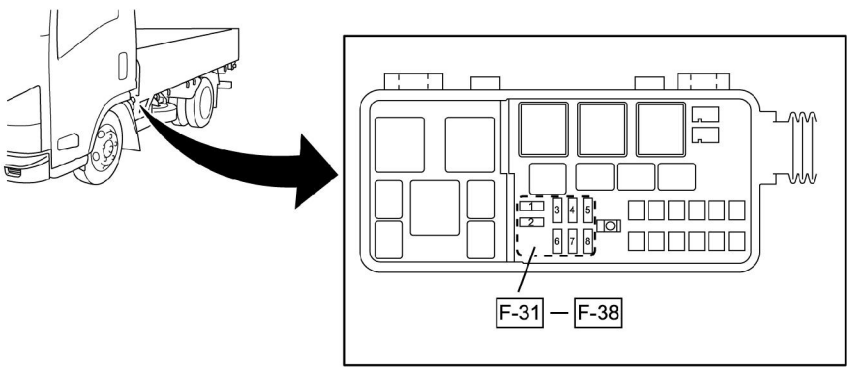


FUSE LABEL

RR P/WINDOW	——	ROOM LAMP,AUDIO	DOOR LOCK	TRAILER BRAKE	P/WINDOW	ABS	WIPER	H/LAMP LO (LH)	LAMPS (BATT)	H/LAMP LO (RH)	BRAKE LAMPS	STARTER	H/LAMP HI (LH)	H/LAMP HI (RH)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
25A		10A	15A	15A	25A	10A	25A	10A	10A	10A	10A	10A	10A	10A
					SPARE		SPARE			SPARE		SPARE		

MIRROR HEATER	IGNITION2	IGNITION1	——	ECM	METER	ECU (BATT)	MIRROR	AUDIO, ACC	HORN	TURN, HAZARD	TAIL LAMPS	ILLUMINATIONS	CORNERING LAMPS	AIR CONDITIONER
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
15A	10A	10A		10A	10A	10A	10A	15A	15A	15A	10A	10A	10A	10A

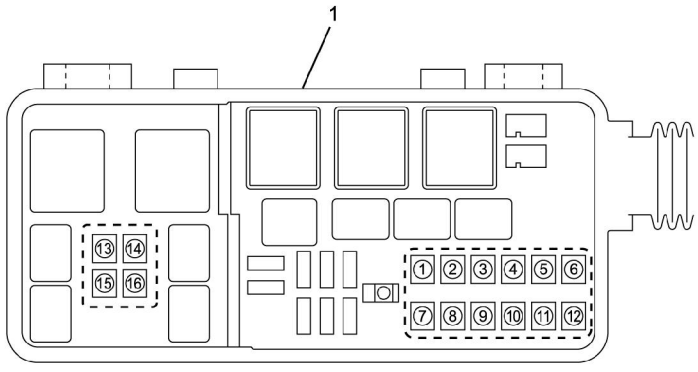
F-39 (D-1)	20A	CIGAR
F-40 (D-2)	15A	ACCESSORIES SOCKET
F-41 (D-3)	20A	POWER SOURCE



1	20A F-31	MARKER LAMP
2	20A F-32	TAIL MAIN
3	20A F-33	PCM1
4	20A F-34	PCM2
5	20A F-35	PCM3
6	15A F-36	POWER SOURCE
7	20A F-37	CONDENSER FAN
8	10A F-38	AIR CONDITIONER

Note: The fuse numbers (1)-(30) indicated on the fuse labels are expressed as [F-1] ~ [F-30] in the circuit diagrams of this manual.

Slow Blow Fuse

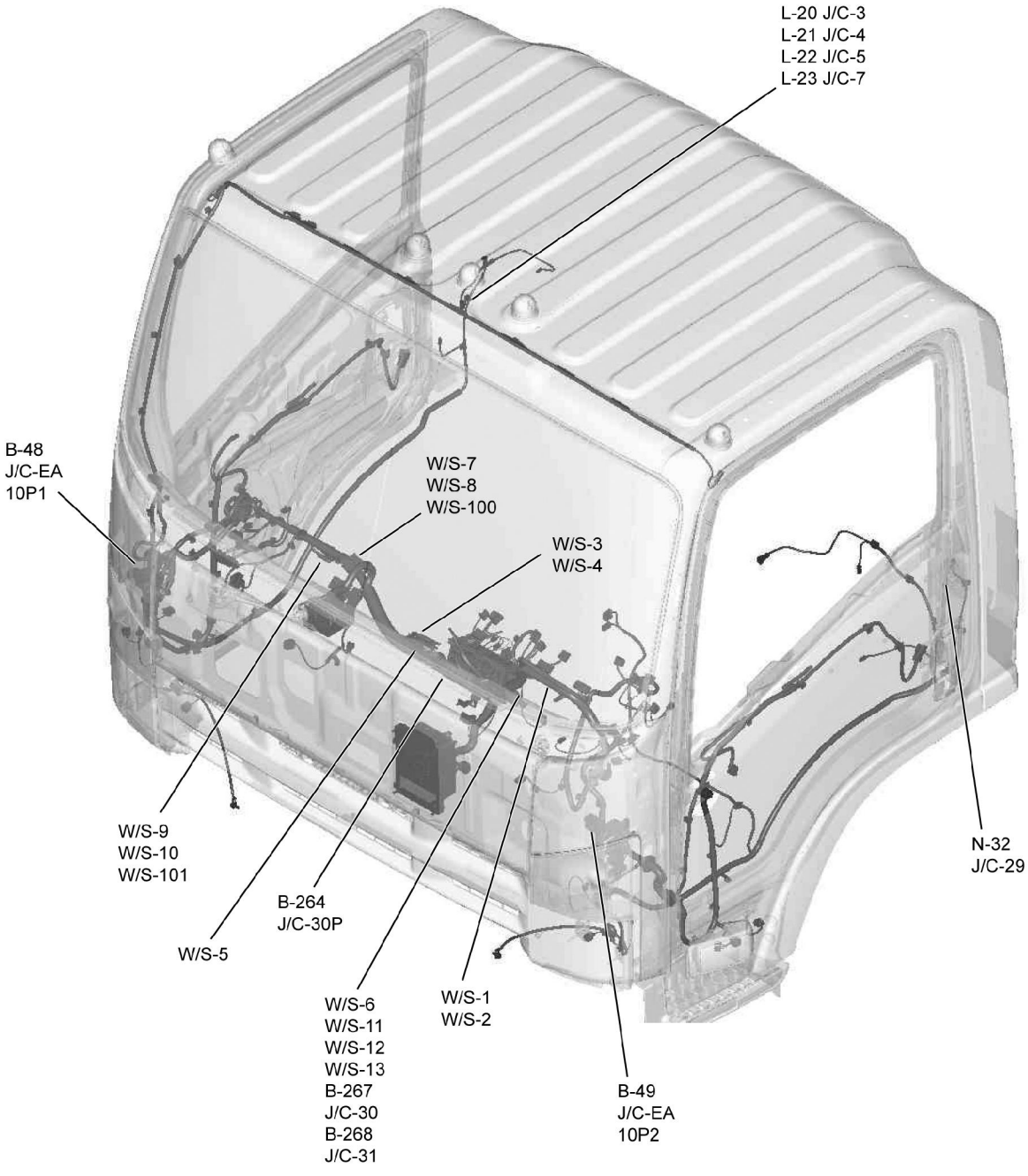


No.	SBF No.	Name	Capacity
①	FL-1	PCM	40A
②	FL-2	STARTER	60A
③	FL-3	POWER ACC	50A
④	FL-4	FUEL PUMP	30A
⑤	FL-5	STARTER SWITCH 2	40A
⑥	FL-6	STARTER SWITCH 1	30A
⑦	FL-7	HVAC	40A
⑧	FL-8	HEADLIGHT	30A
⑨	FL-9	RR DOME LIGHT	30A
⑩	FL-10	WIPER	50A
⑪	FL-11	ABS	60A
⑫	FL-12	JUNCTION BLOCK	50A
⑬	FL-13	—	—
⑭	FL-14	ETB	30A
⑮	FL-15	—	—
⑯	FL-16	TOWING CONVERTER	30A

Note: The slow blow fuse numbers (1)-(12) indicated on the fuse labels are expressed as [FL-1] ~ [FL-12] in the circuit diagrams of this manual.

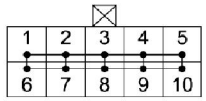
Joint Connection and Weld Splice Location

Body Cable Harness



Joint Connection Circuit

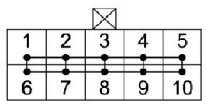
B-48 J/C-EA 10P1



Joint Point	Terminal No.	Connection
	1	DRL Control Unit.A
	2	Audio Ground
	3	Illumination Control Switch
	4	J/C-EA 10P2
	5	Side Marker Light RH Ground
	6	J/C-30P
	7	Mirror Heater RH Ground
	8	Rear Power Window Switch LH Ground
	9	Headlight RH Ground
	10	Body Ground

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

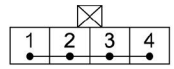
B-49 J/C-EA 10P2



Joint Point	Terminal No.	Connection
	1	Front Power Window Switch LH Ground
	2	Combination Switch Ground
	3	Rear Power Window Switch LH Ground
	4	Blower Resistor
	5	Body Ground
	6	Headlight LH Ground
	7	Vacuum Pump Ground
	8	Mirror Heater LH Ground
	9	J/C-30P
	10	J/C-EA 10P1

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

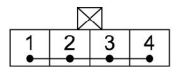
B-267 J/C-30



Joint Point	Terminal No.	Connection
	1	Door Switch (LH) (S-Cab)
		J/C-29 (C-Cab)
	2	Door Switch (RH) (C-Cab)
	3	Rear Dome Light Ground
	4	Dome Light Ground

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

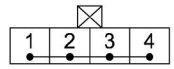
B-268 J/C-31



Joint Point	Terminal No.	Connection
	1	Rear Dome Light
	2	Dome Light
	3	——
	4	Cab Junction Block1,A

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

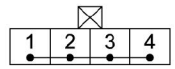
N-32 J/C-29 (C-Cab)



Joint Point	Terminal No.	Connection
	1	Rear Door Switch (LH)
	2	Rear Door Switch (RH)
	3	Door Switch (LH) (C-Cab)
	4	J/C-30

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

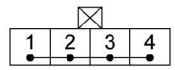
L-20 J/C-3



Joint Point	Terminal No.	Connection
	1	Identification Light 3
	2	Identification Light 2
	3	Marker 1
	4	J/C-7

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

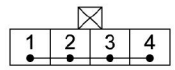
L-21 J/C-4



Joint Point	Terminal No.	Connection
	1	Identification Light 3
	2	Identification Light 2
	3	Marker 1
	4	J/C-5

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

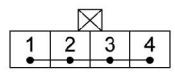
L-22 J/C-5



Joint Point	Terminal No.	Connection
	1	Identification Light 1
	2	Marker 2
	3	J/C-4
	4	Sub Junction Block, G

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

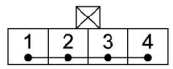
L-23 J/C-7



Joint Point	Terminal No.	Connection
	1	Identification Light 1
	2	Marker 2
	3	J/C-3
	4	Sub Junction Block, G

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

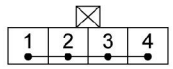
L-20 J/C-3



Joint Point	Terminal No.	Connection
	1	Identification Light 3
	2	Identification Light 2
	3	Marker 1
	4	J/C-7

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

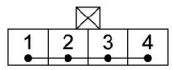
L-21 J/C-4



Joint Point	Terminal No.	Connection
	1	Identification Light 3
	2	Identification Light 2
	3	Marker 1
	4	J/C-5

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

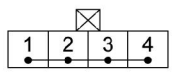
L-22 J/C-5



Joint Point	Terminal No.	Connection
	1	Identification Light 1
	2	Marker 2
	3	J/C-4
	4	Sub Junction Block, G

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

L-23 J/C-7



Joint Point	Terminal No.	Connection
	1	Identification Light 1
	2	Marker 2
	3	J/C-3
	4	Sub Junction Block, G

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

Reference Table of Weld Splice

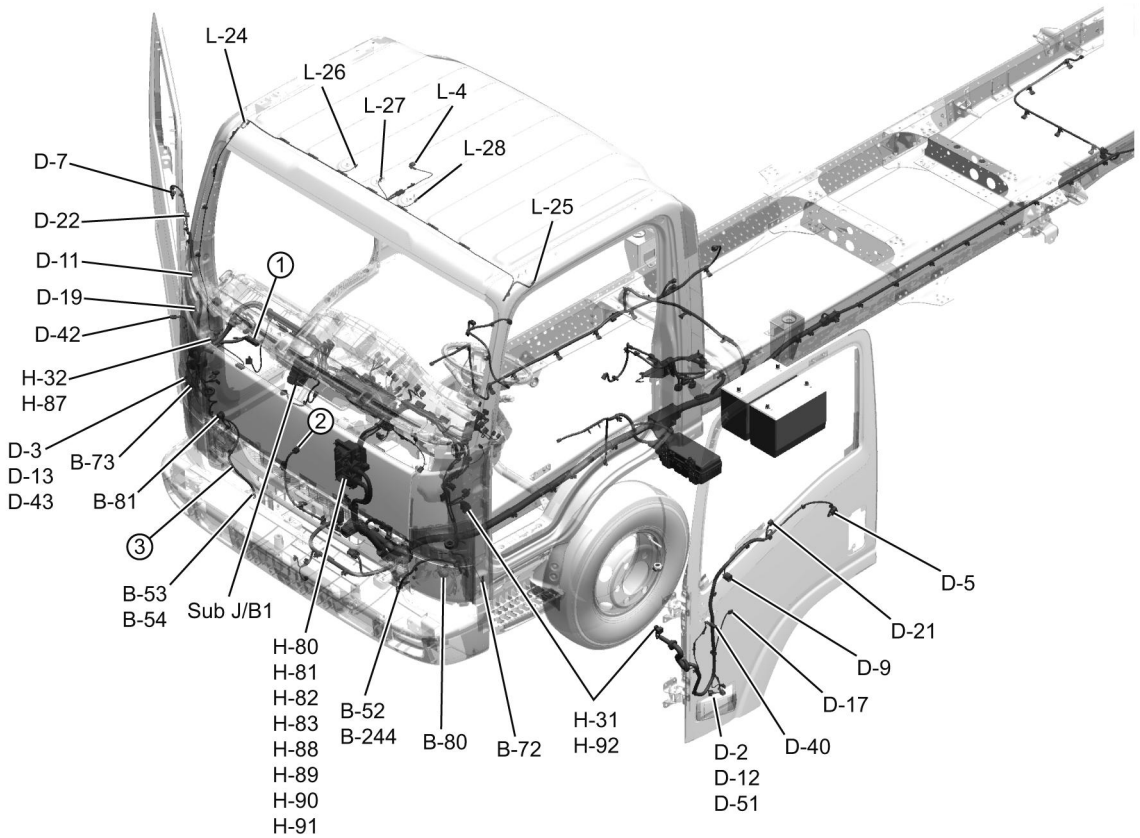
Connector No.	Usage
Weld Splice-1	Headlight (LH)
	DRL Control Unit .B
	Cab Junction Block 1.B

Weld Splice-2	Headlight (RH)
	Cab Junction Block 1.F
	DRL Control Unit .B
Weld Splice-3	Blower
	Blower Resistor
	Blower Switch
Weld Splice-4	Cab Junction Block 1.P
	Blower Relay
	Blower
Weld Splice-5	Cab Junction Block 1.P
	Slow Blow Fuse 12
	Cigarette Lighter Relay
Weld Splice-6	Ignition Switch
	Slow Blow Fuse 5
	Slow Blow Fuse 5
Weld Splice-7	Cab Junction Block 1.M
	Cab Junction Block 1.P
	Slow Blow Fuse 8
Weld Splice-8	Cab Junction Block 1.P
	Fuse 32
	Fuse 32
Weld Splice-9	Body Earth 9
	Body Earth 15
	Front Wiper Motor
	Blower Switch
Weld Splice-10	Sub Junction Block .F
	Body Earth 7
	Body Earth 6
	Cigarette Lighter .B
	Accessory Socket .B

	EXT ETB-4
Weld Splice-11	Fuse 39
	Cigarette Lighter.A
	Rear Heater
Weld Splice-12	Rear Power Window Switch (LH)
	Rear Power Window Switch (RH)
	Rear Power Window Switch (RH)
	Rear Power Window Switch (LH)
	Cab Junction Block 1.A
Weld Splice-13	Rear Power Window Switch (RH)
	Rear Power Window Switch (RH)
	Rear Power Window Switch (LH)
	Rear Power Window Switch (LH)
	J/C-EA 10P1
Weld Splice-100	Front Wiper Motor
	Intermittent Relay
	Cab Junction Block 1.E
Weld Splice-101	Cab Junction Block 1.E
	Front Washer Motor
	Front Wiper Motor

Parts Location

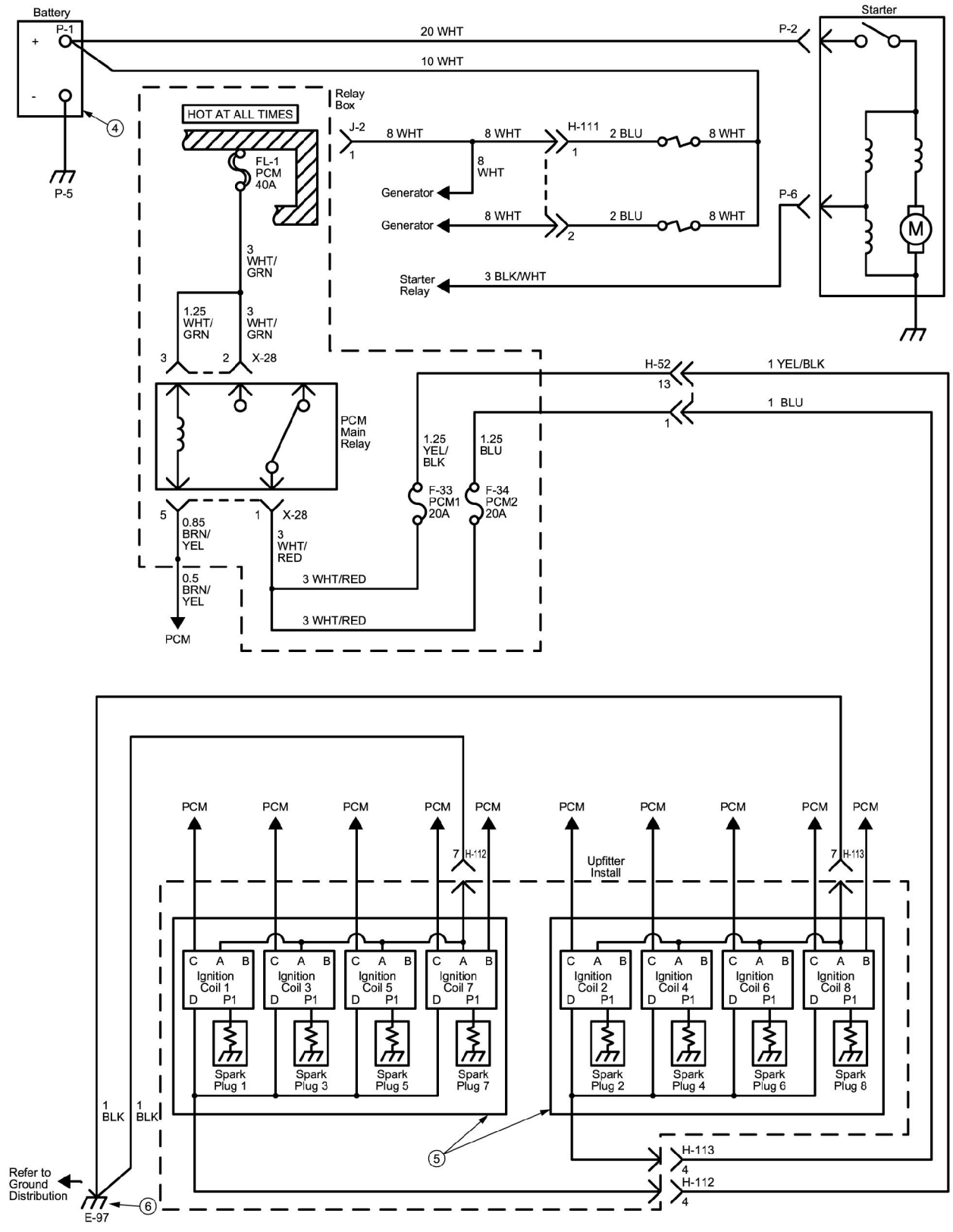
The parts location shows the location of the parts (1) and the connector (2) used in each harness routing (3).



LNWG80MF000301

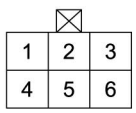
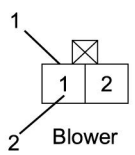
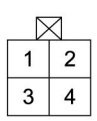
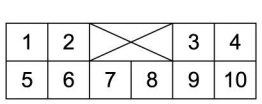
Circuit Diagram

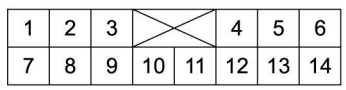
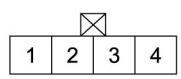
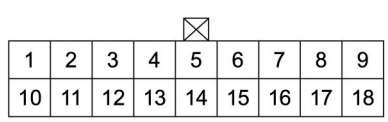
The circuit diagram shows the power supply (4) the load or loads (5) and the grounding point(s) (6).



Connector List

The connector list shows each connector’s configuration (1) and the pin number (2).

No.	Connector Face
B-5 (Gray)	 Accel Sensor 006-115
B-12 (White)	 Blower 002-267
B-13 (White)	 Blower Resistor 004-129
B-15 (Blue)	 Cab J/B 1 A 010-062

No.	Connector Face
B-20 (White)	 Cab J/B 1 G 014-026
B-28 (White)	 Cani Joint 4 004-128
B-35 (White)	 Combination SW 018-024
B-55	 Body Earth 000-049

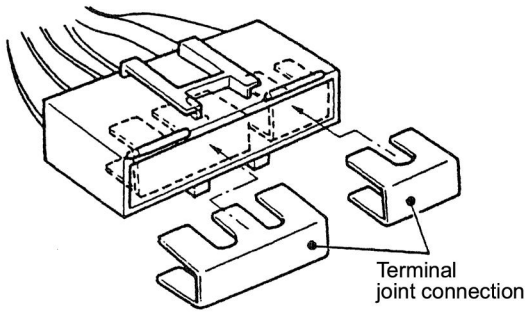
LNWA8DLF000301

Connector Symbol

Connector Symbol	Harness name	Connector Symbol	Harness name
B	Body (Inst.) Harness	L	Dome Light Harness
D	Door Harness	N	Floor Harness (LH and RH)
E	Engine Harness	P	Battery Harness
H	For joint between harnesses	X	Body and Frame Front Harness
J	Frame front & frame rear harness		

Joint Connection

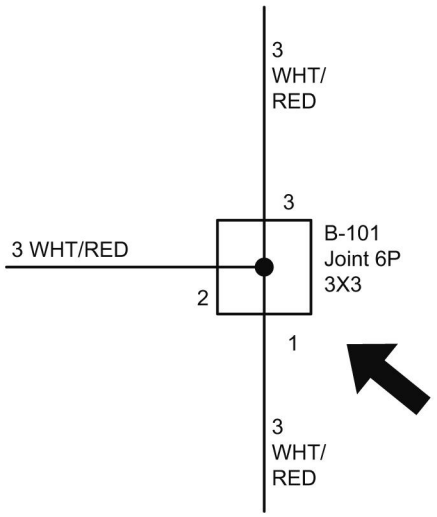
This connector has the structure of plural number of terminals collectively connected inside the connector.



LNW48ASH003101

How to show joint connection in the circuit diagram

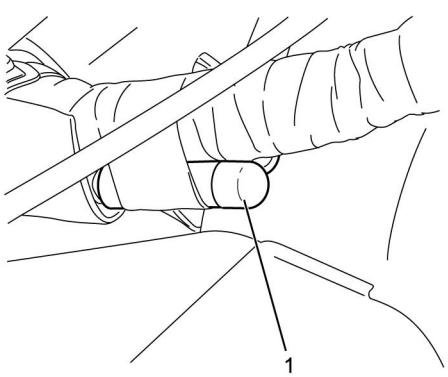
1. When joint connection can be shown as actual circuit diagram.



LNWG80SH000301

Weld Splice

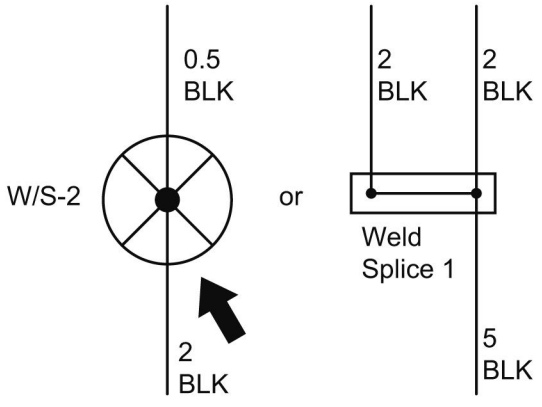
Weld splice is a harness that welds the point of the harness and does joint.



RTW58DSH000101

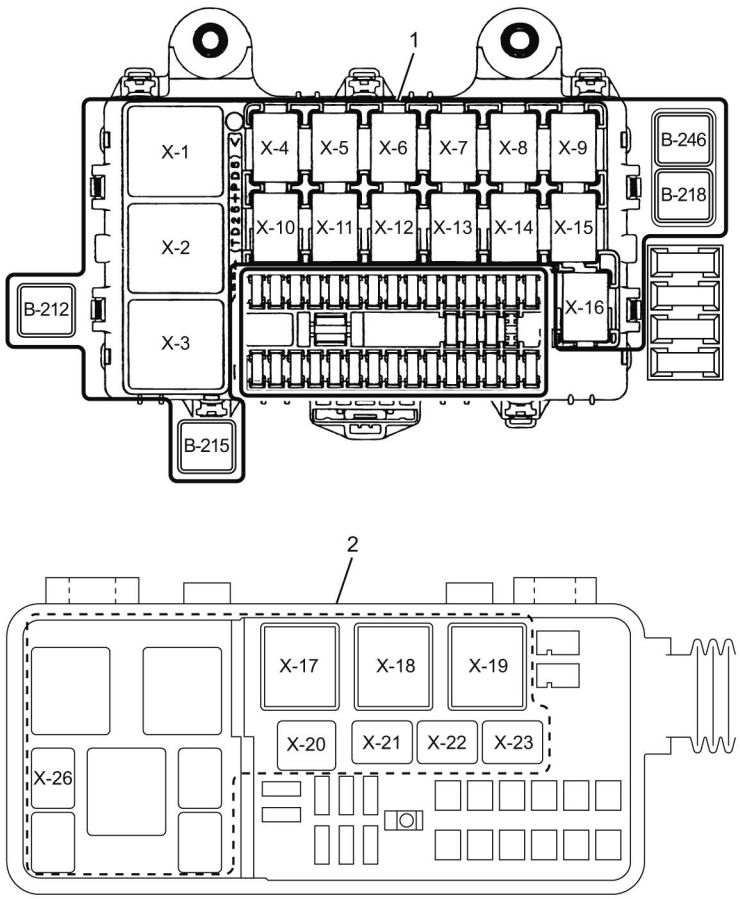
How to show weld splice in the circuit diagram

1. When weld splice can be shown as actual circuit diagram.



LNWG80SH000401

Relay Location



LNWG80LF000701

Relay List

Connector No.	Relay Name
X-1	Stoplight
X-2	Daytime Running Light
X-3	Key On
X-4	TCM
X-5	P/N Start
X-6	Wiper Main
X-7	Horn
X-8	Wiper High/Low
X-9	Trailer Brake

X-10	Rear Power Window
X-11	Charge
X-12	Front Power Window
X-13	Headlight (Low)
X-14	Vacuum Pump
X-15	Headlight (High)
X-16	Taillight
B-212	Power Accessory
B-215	Blower
B-218	Cigarette Lighter
B-246	Cornering Light
X-17	Starter
X-20	Magnetic Clutch
X-21	Condenser Fan
X-22	Fuel Pump
X-23	Rear Dome Light
X-26	Marker Light
X-28	PCM Main
X-30	A/C Enable

Repair Instructions

Battery Charging

Battery Charging Procedure and Rules

The following basic rules apply to any sealed battery charging situation:

1. Do not charge a battery if the hydrometer is clear or light yellow – replace the battery.
2. Charge rates between three and fifty amperes are satisfactory as long as spewing of electrolyte does not occur or the battery does not feel excessively hot (over 52°C (125°F)).

   If spewing occurs or temperature exceeds 52°C (125°F), the charging rate must be reduced or temporarily halted to permit cooling.
3. The battery is sufficiently charged when the green dot in the built-in hydrometer is visible. No further charging is required. Shake or tilt the battery at hourly intervals during charging to mix the electrolyte and see if the green dot appears.
4. Battery charging consists of a charge current in amperes for a period of time in hours. Thus a 25-ampere charging rate for two hours would be 50 ampere-hour charge to the battery. In most cases, batteries whose load test values are less than 200 amperes will have the green dot visible after least a 50 ampere-hour charge. Most batteries whose load test values are greater than 200 amperes will have the green dot visible after at least a 75 ampere-hour charge. In the event that the green dot does not appear, after this amount of charging, continue charging for another 50 to 75 ampere-hours. If the green dot still does not appear, replace the battery.
5. The time required for a charge will vary because:

   - Size of Battery – Example: A completely discharged large heavy-duty battery requires more than twice the recharging as a completely discharged small passenger car battery.
   - Temperature – Example: A longer time will be needed to charge any battery at -18°C (0°F) than at 27°C (80°F). When a fast charger is connected to a cold battery, the current accepted by the battery will be very low at first, then in time the battery will accept a higher rate as it warms up.
   - State of Charge – Example: A completely discharged battery requires more than twice as much as a half-charged battery. Because of a completely discharged battery the electrolyte is nearly pure water and a poor conductor, thus current flow accepted is very low at first. As the charging current causes the electrolyte acid content to increase, the charging current will likewise increase.
   - Charger Capacity – Example: A charger that can supply only 5 amperes will require a much longer period of charging than a charger that can supply 30 amperes or more.

Battery Replacement

When handling a battery, the following safety precautions should be observed:

1. Hydrogen gas is produced by the battery. A flame or spark near the battery may cause the gas to ignite.
2. Battery fluid is highly acidic. Avoid spilling on clothing or other fabric. Any spilled electrolyte should be flushed with large quantities of water and cleaned immediately.

Removal Procedure

1. Tilt the cab.

Warning: **Refer to** **CELL Link Error - Link target cell (cell ID 178001) is invalid for this publication..**

2. Remove the negative cable from negative terminal.
3. Remove the positive cable from positive terminal.
4. Remove the battery hold-down clamp.
5. Remove the battery.

Inspection Procedure

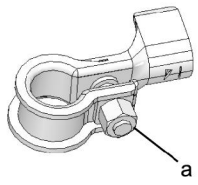
Inspect the battery for physical damage, such as a cracked top or battery case, and correct.

Installation Procedure

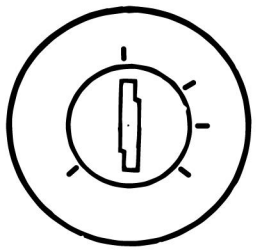
1. Install the battery.
   - Tighten the hold-down clamp bolt, being careful not to distort or crack the case or cover..
   - Check polarity to be sure the battery is not revered with respect to the generator.
2. Install the battery positive cable to positive terminal.
3. Install the battery ground cable to negative terminal.

Caution: Refer to CELL Link Error - Link target cell (cell ID 178169) is invalid for this publication..

Tighten the battery cables to the battery.



Ignition and Start Switch Replacement



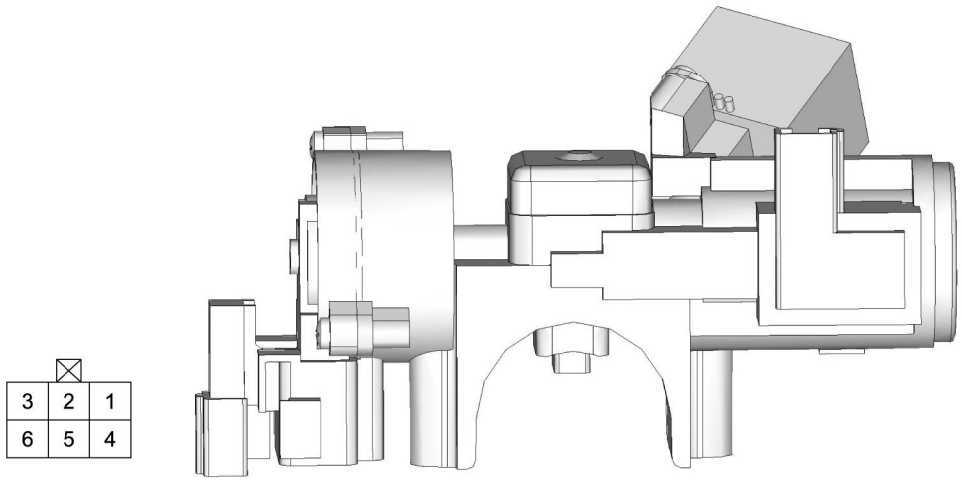
LNW780SH011701

The ignition switch positions are LOCK, ACC, ON and START. Turning the starter key to these positions a circuit for starting the engine, the operation of accessories, or stop the engine.

Inspection Procedure

Check the continuity between the ignition connector terminals.

Repair or replace the switch when the result of inspection is found abnormal.

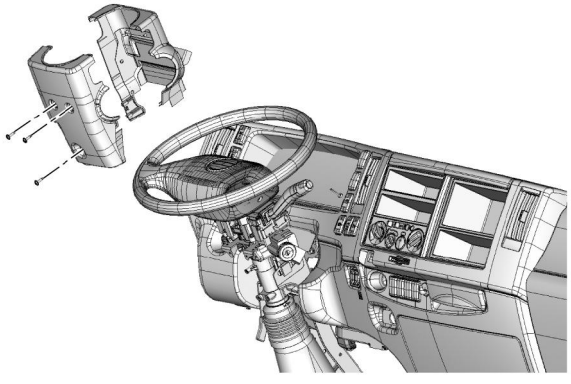


Switch Position \ Terminal No.		4	5	6	1	2	3
		B1	ACC	IG1	IG2	ST	B2
Removed	LOCK						
Inserted	ACC	○	○				
	ON	○	○	○	○		○
	START	○		○		○	○

Removal Procedure

Warning: Refer to CELL Link Error - Link target cell (cell ID 178001) is invalid for this publication..

1. Disconnect the battery ground cable.
2. Remove the steering cowl.
   - 2.1. Remove three screws and take off the steering cowl.



3. Remove the ignition switch.
   - 3.1. Disconnect the connector.
   - 3.2. Remove the screw.

Installation Procedure

To install, follow the removal steps in the reverse order.

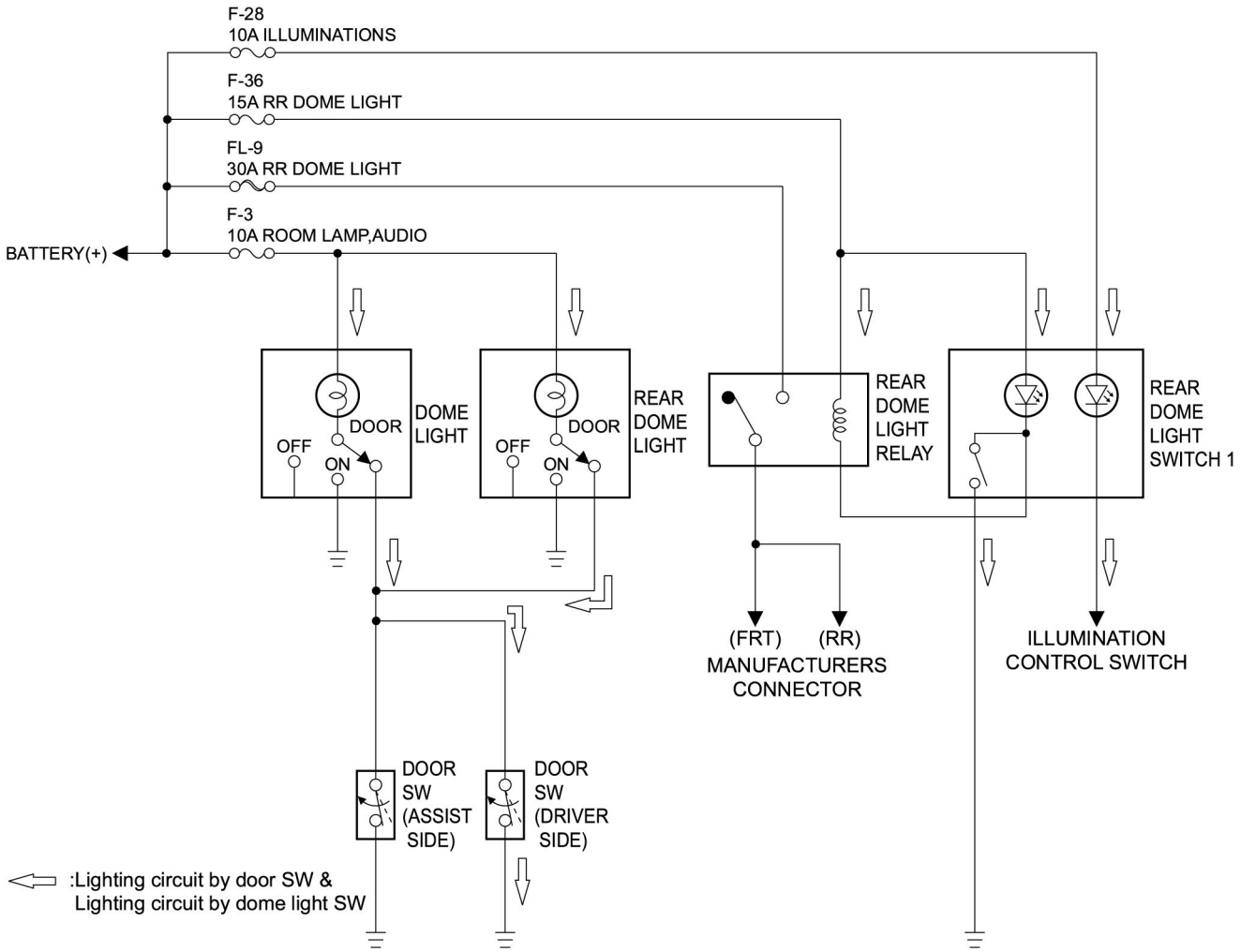
Description and Operation

Exterior Lights Circuit Description

The circuit consists of lights (headlight, side marker light clearance light, parking light, turn signal light [front, side and rear], cornering light, identification light, stoplight, taillight, backup light and license plate light), switches (ignition switch, combination switch, hazard warning flasher switch, illumination control switch, brake switch, backup light switch and manual shift shaft position switch), relays and other units.

The circuit has the DRL (Daytime Running Light) function. The DRL unit lights up the headlight automatically when the engine is running and the parking brake is released. When the lighting switch is turned to the headlight ON position, the DRL unit turns OFF the headlight.

The combination switch consists of the lighting switch, the dimmer switch and the turn signal light switch. Each of lights are operated by the combination switch or other switches.

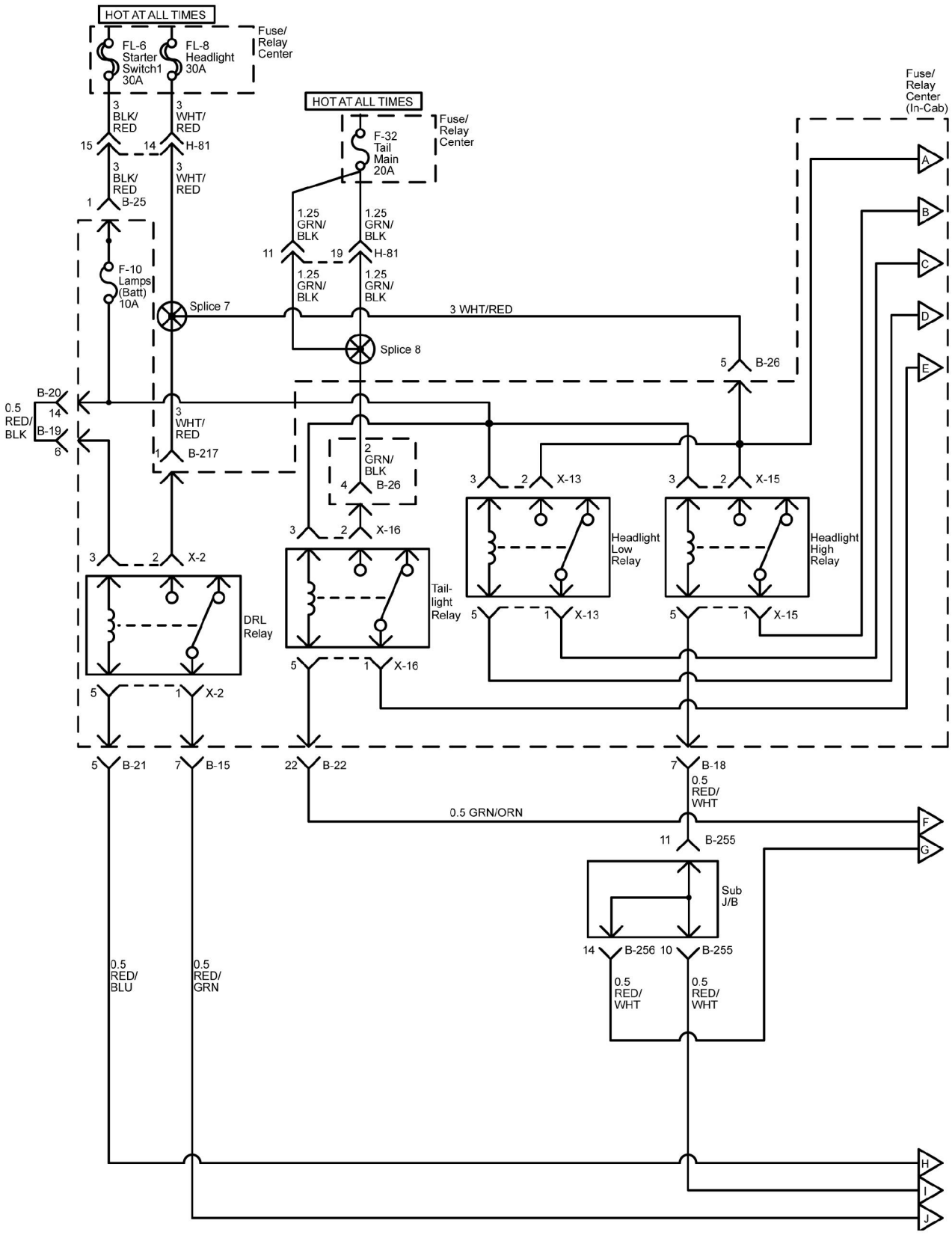


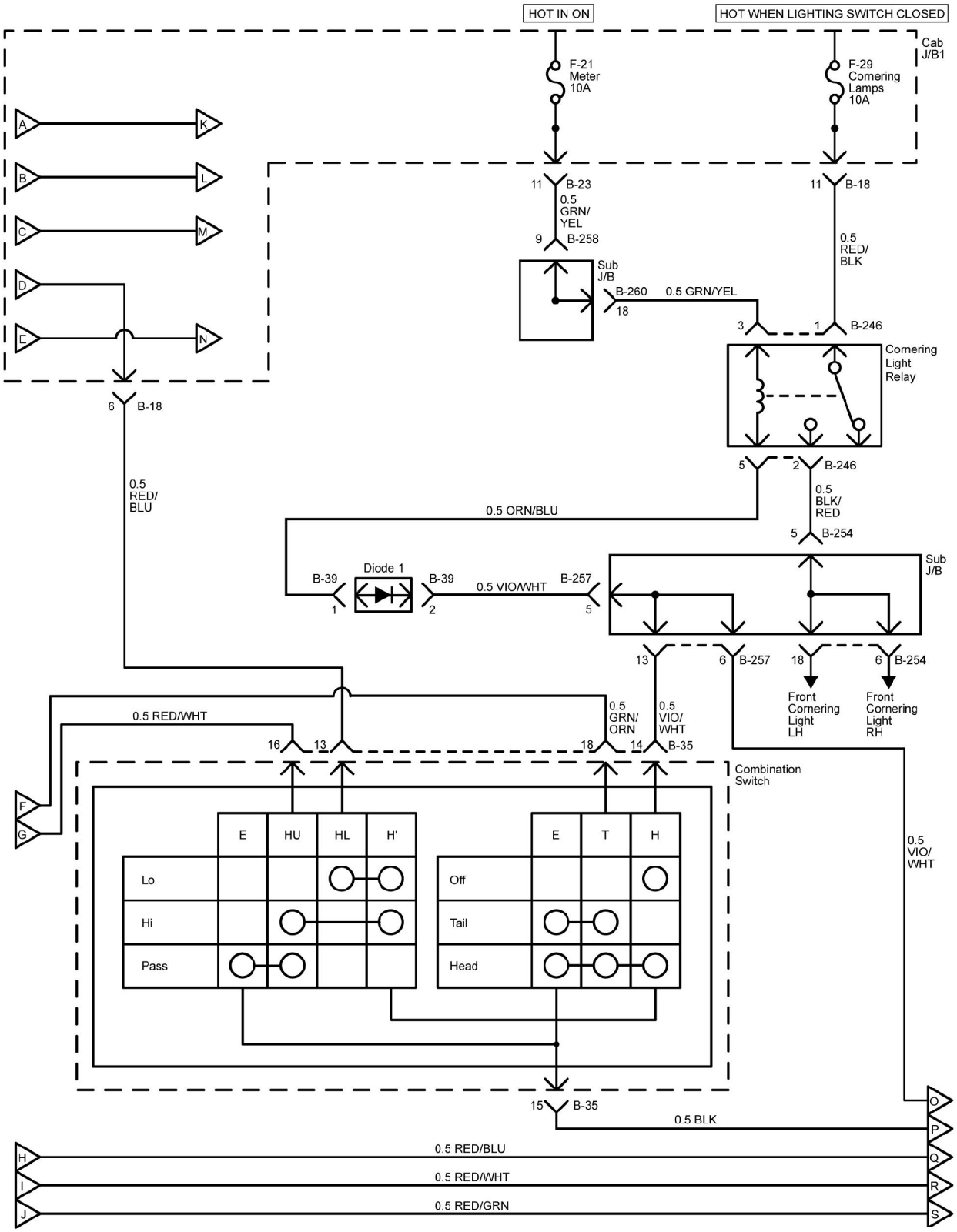
NOTE: Arrow marks " ⇨ " indicate the direction of current

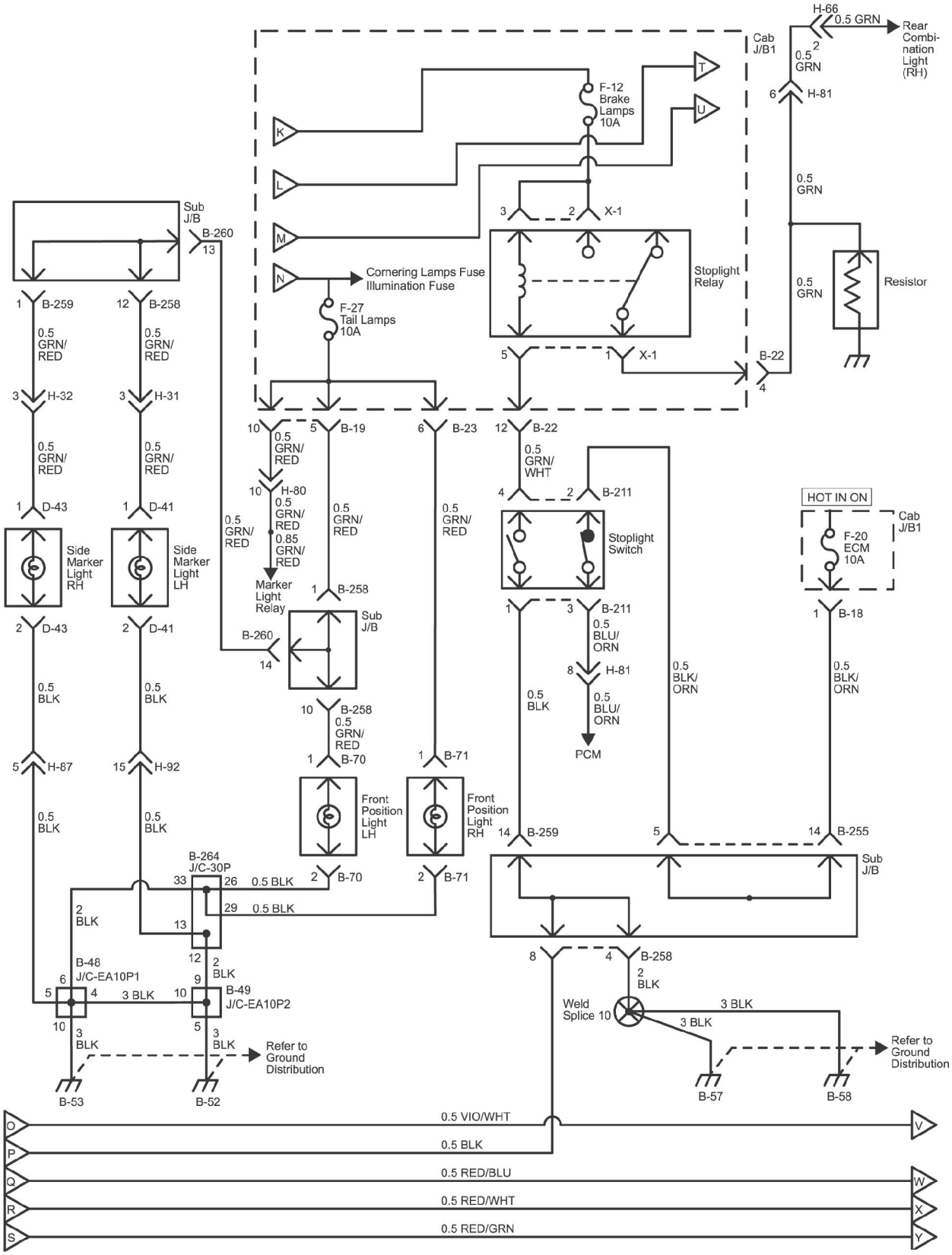
LNW88DLF000201

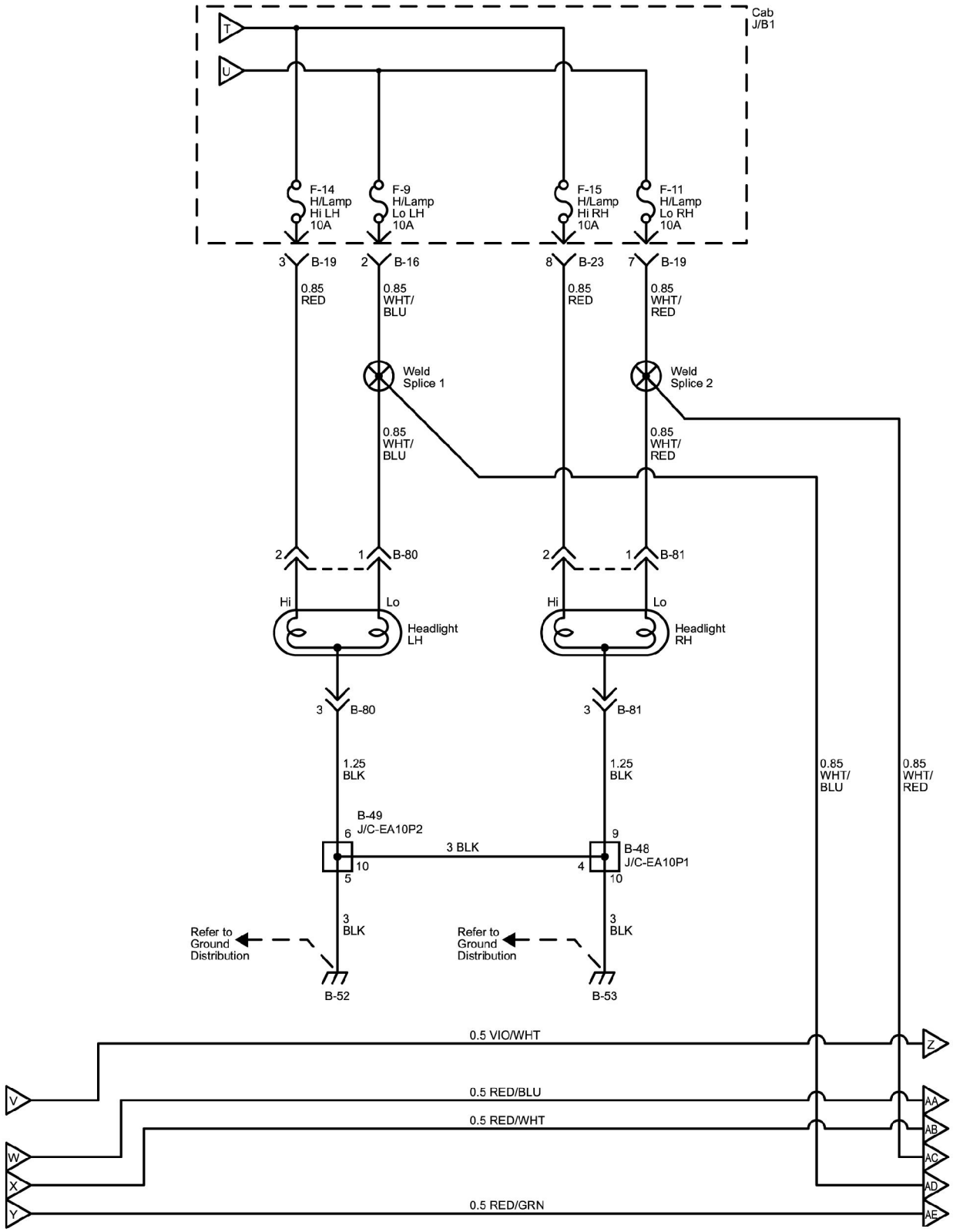
Schematic and Routing Diagrams

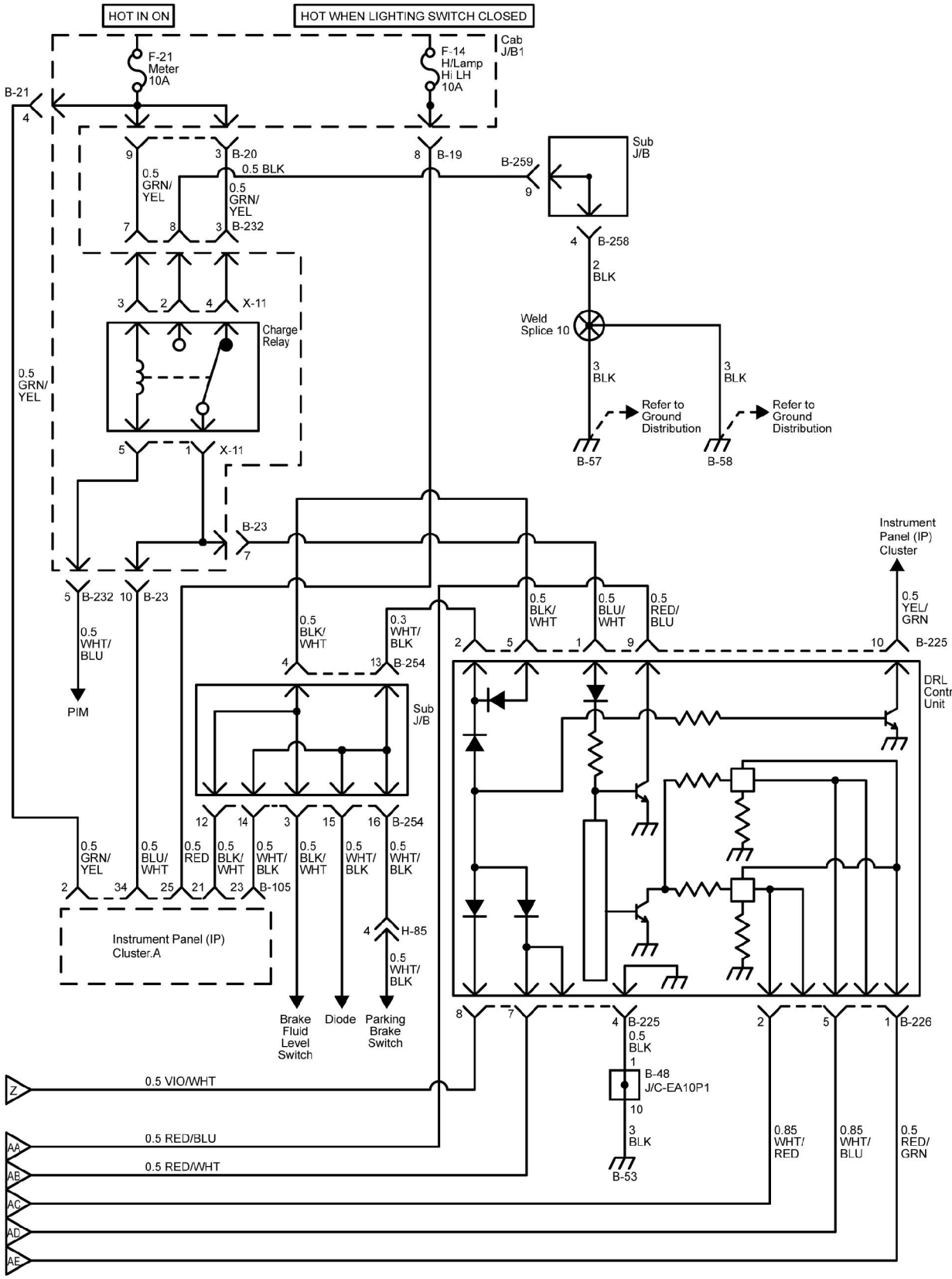
Exterior Lights Schematics

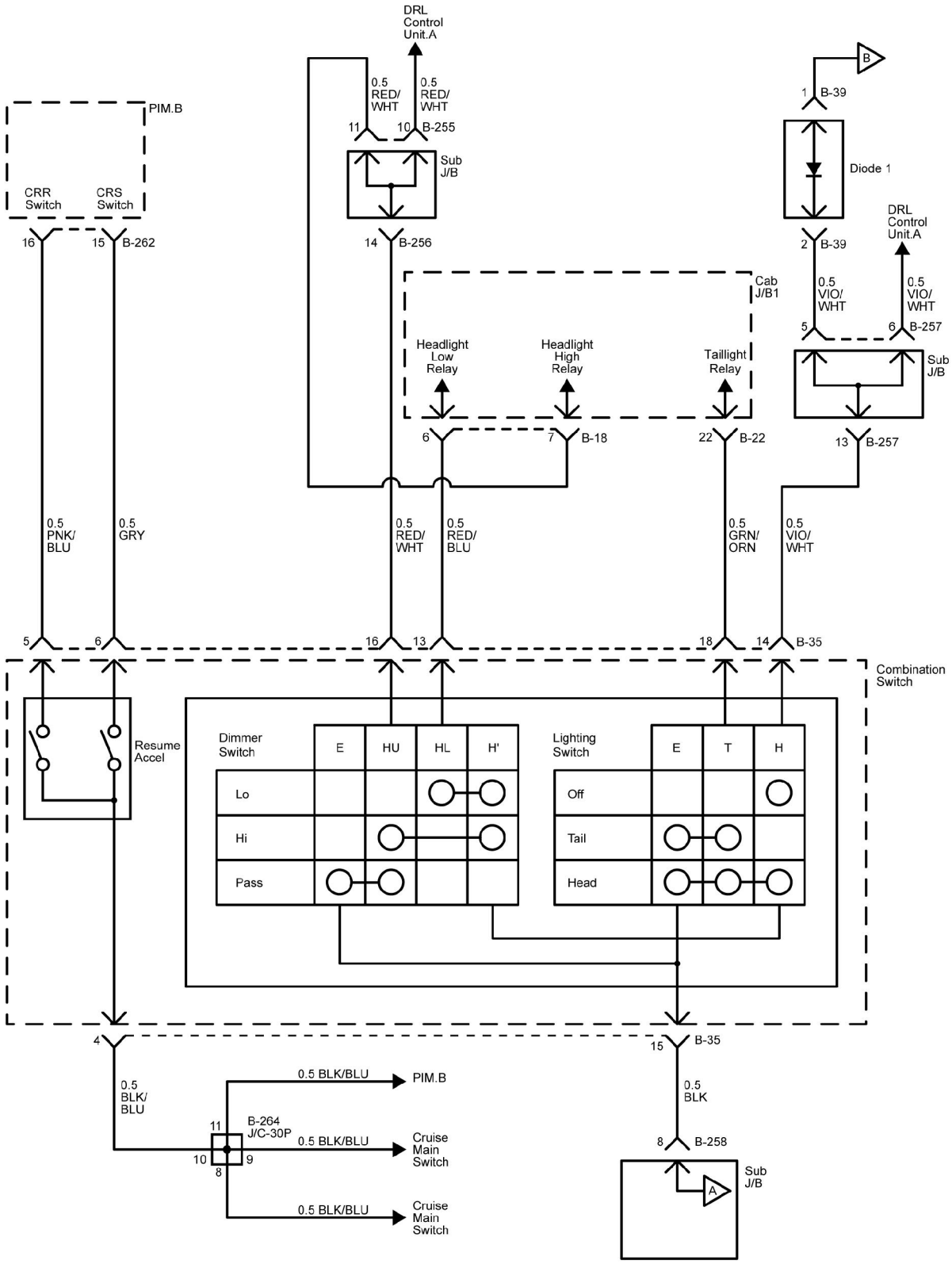


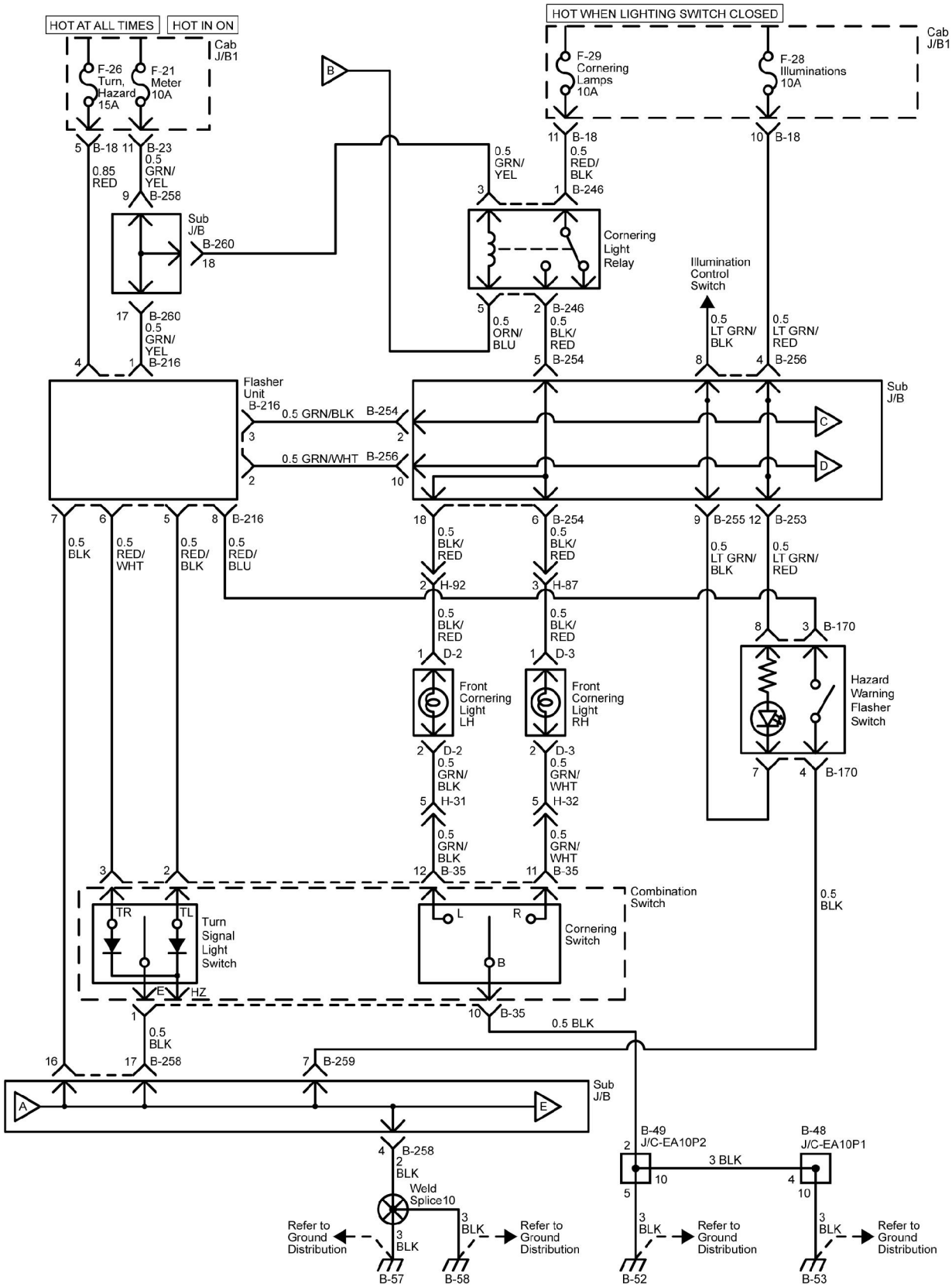

HOT IN ON
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-21 Meter 10A
F-29 Cornering Lamps 10A
A
B
C
D
E
K
L
M
N
11 B-23
0.5 GRN/ YEL
9 B-258
11 B-18
0.5 RED/ BLK
Sub J/B
B-260 0.5 GRN/YEL
18
3
1 B-246
Cornering Light Relay
6 B-18
0.5 RED/ BLU
5
2 B-246
0.5 BLK/ RED
5 B-254
0.5 ORN/BLU
B-39
Diode 1
B-39
0.5 VIO/WHT
B-257
1
2
5
Sub J/B
13
6 B-257
18
6 B-254
Front Cornering Light LH
Front Cornering Light RH
0.5 RED/WHT
16
13
0.5 GRN/ ORN
0.5 VIO/ WHT
18
14 B-35
Combination Switch
F
G
E
HU
HL
H'
Lo
Hi
Pass
E
T
H
Off
Tail
Head
0.5 VIO/ WHT
15 B-35
0.5 BLK
O
P
0.5 RED/BLU
0.5 RED/WHT
0.5 RED/GRN
H
I
J
Q
R
S

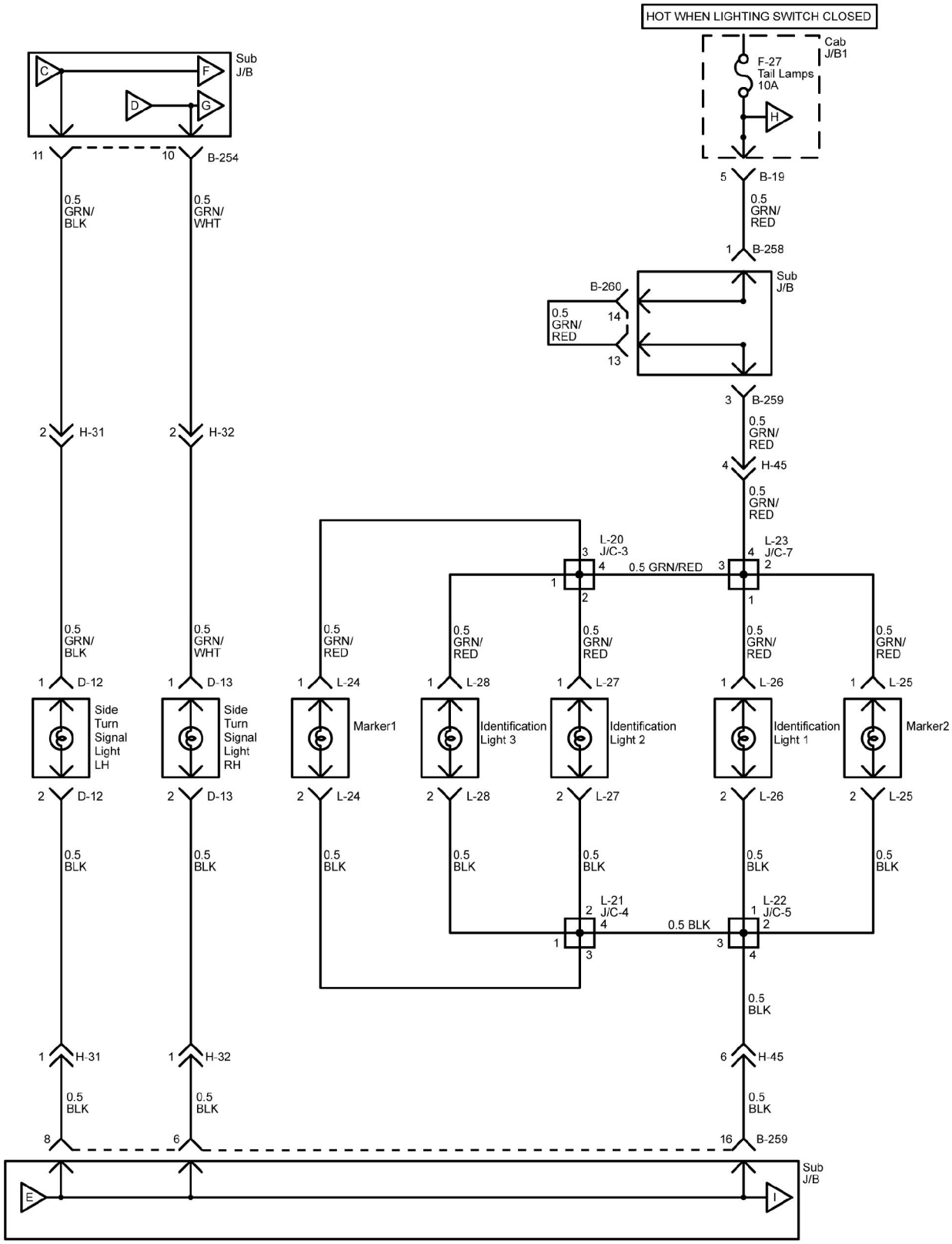

Cab J/B1
H-66
0.5 GRN
Rear Combi-nation Light (RH)
0.5 GRN
6 H-81
0.5 GRN
Resistor
F-12 Brake Lamps 10A
K
L
M
N
T
U
3 2 X-1
Cornering Lamps Fuse
Illumination Fuse
F-27 Tail Lamps 10A
Stoplight Relay
5 1 X-1
B-22
4
Sub J/B
B-260
13
1 B-259
12 B-258
0.5 GRN/ RED
3 H-32
3 H-31
1 D-43
1 D-41
Side Marker Light RH
Side Marker Light LH
2 D-43
2 D-41
0.5 BLK
5 H-87
15 H-92
10 0.5 GRN/ RED 5 B-19
10 H-80
0.85 GRN/ RED
Marker Light Relay
1 B-258
B-260
14
Sub J/B
10 B-258
1 B-70
6 B-23
1 B-71
Front Position Light LH
Front Position Light RH
2 B-70
2 B-71
12 B-22
0.5 GRN/ WHT
4 2 B-211
Stoplight Switch
1 3 B-211
0.5 BLU/ ORN
8 H-81
PCM
0.5 BLK/ ORN
HOT IN ON
F-20 ECM 10A
Cab J/B1
1 B-18
14 B-259
5 14 B-255
B-264 J/C-30P
33 26 0.5 BLK
29 0.5 BLK
2 BLK
13
12
B-48 J/C-EA10P1
6 5 4 3 BLK 10 9
B-49 J/C-EA10P2
10 3 BLK
5 3 BLK
Refer to Ground Distribution
B-53
B-52
8 4 B-258
Weld Splice 10
3 BLK
B-57
B-58
0.5 VIO/WHT
0.5 BLK
0.5 RED/BLU
0.5 RED/WHT
0.5 RED/GRN
O
P
Q
R
S
V
W
X
Y

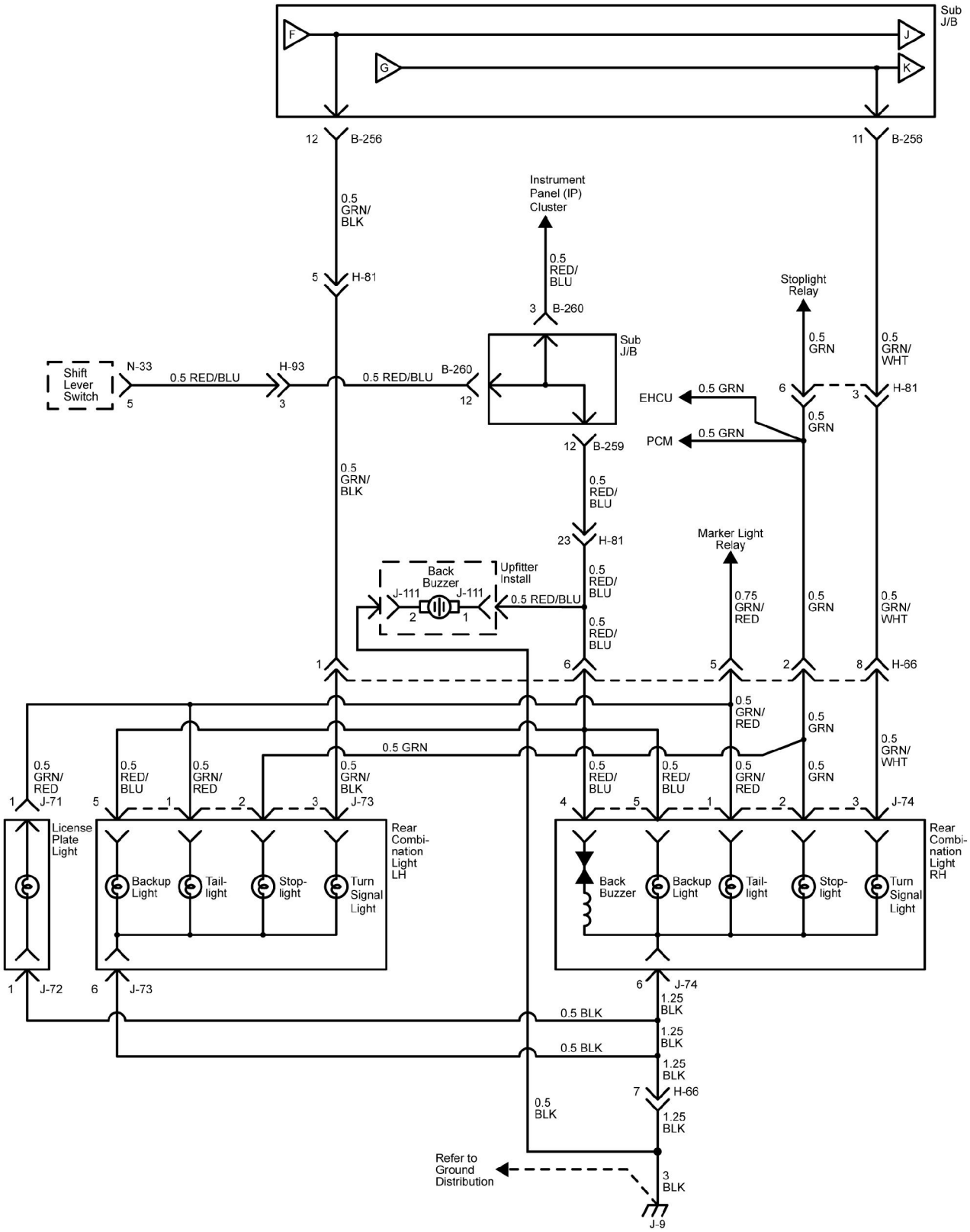

Cab
J/B1
T
U
F-14
H/Lamp
Hi LH
10A
F-9
H/Lamp
Lo LH
10A
F-15
H/Lamp
Hi RH
10A
F-11
H/Lamp
Lo RH
10A
3 B-19
2 B-16
8 B-23
7 B-19
0.85
RED
0.85
WHT/
BLU
0.85
RED
0.85
WHT/
RED
Weld
Splice 1
Weld
Splice 2
0.85
WHT/
BLU
0.85
WHT/
RED
2
1 B-80
2
1 B-81
Hi
Lo
Hi
Lo
Headlight
LH
Headlight
RH
3 B-80
3 B-81
1.25
BLK
1.25
BLK
0.85
WHT/
BLU
0.85
WHT/
RED
B-49
J/C-EA10P2
6
10
5
3 BLK
9
4
10
B-48
J/C-EA10P1
3
BLK
3
BLK
Refer to
Ground
Distribution
Refer to
Ground
Distribution
B-52
B-53
0.5 VIO/WHT
0.5 RED/BLU
0.5 RED/WHT
0.5 RED/GRN
V
W
X
Y
Z
AA
AB
AC
AD
AE

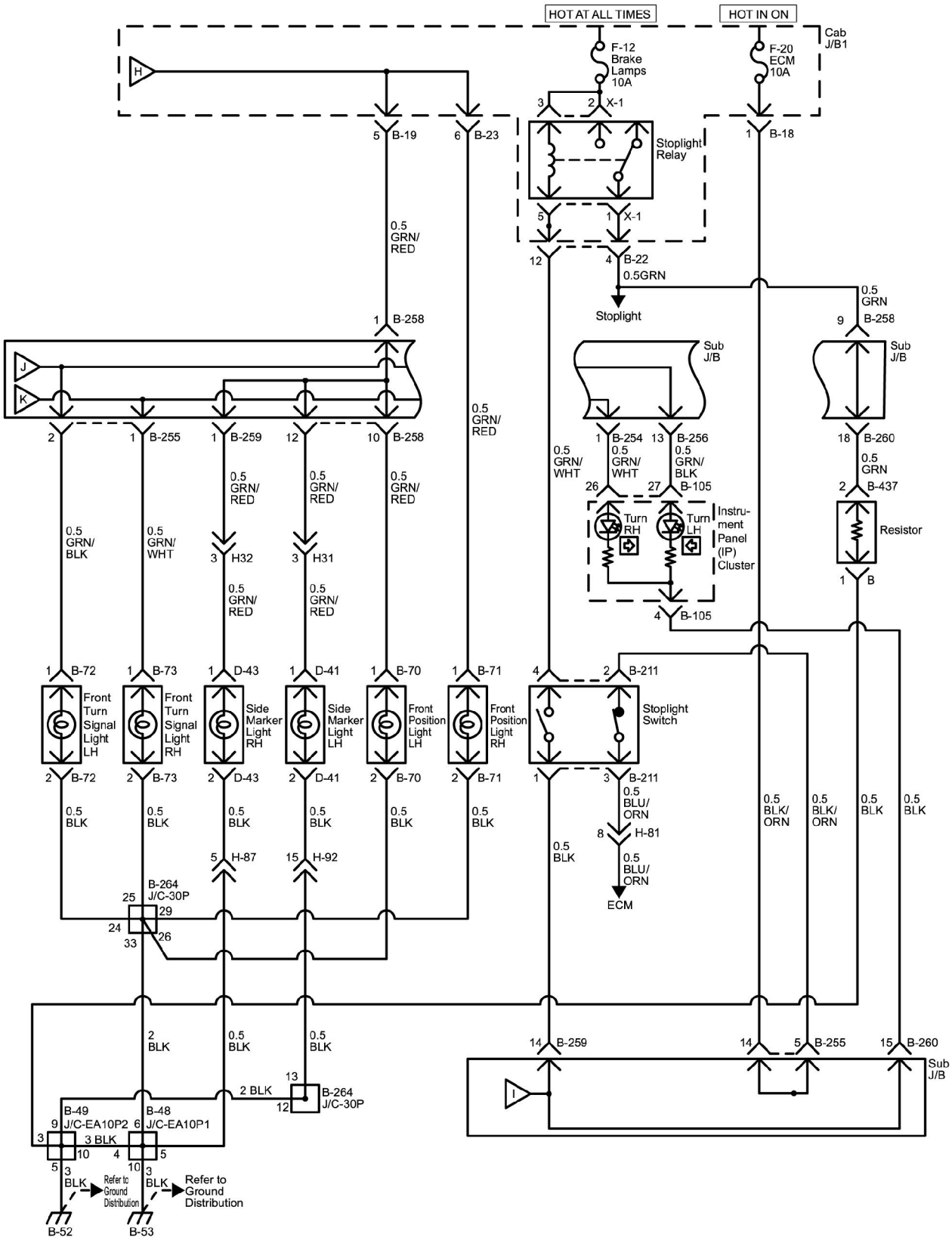

HOT IN ON
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-21 Meter 10A
F-14 H/Lamp Hi LH 10A
B-21
4
9
3
B-20
0.5 BLK
8
B-19
B-259
9
Sub J/B
0.5 GRN/ YEL
0.5 GRN/ YEL
7
8
3
B-232
4
B-258
2 BLK
3
2
4
X-11
Charge Relay
Weld Splice 10
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
B-57
B-58
0.5 GRN/ YEL
5
1
X-11
B-23
7
Instrument Panel (IP) Cluster
5
B-232
10
B-23
0.5 WHT/ BLU
PIM
0.5 BLK/ WHT
0.3 WHT/ BLK
4
13
B-254
0.5 BLK/ WHT
0.5 BLU/ WHT
0.5 RED/ BLU
2
5
1
9
0.5 YEL/ GRN
10
B-225
Sub J/B
DRL Control Unit
12
14
3
15
16
B-254
0.5 GRN/ YEL
0.5 BLU/ WHT
0.5 RED
0.5 BLK/ WHT
0.5 WHT/ BLK
0.5 BLK/ WHT
0.5 WHT/ BLK
0.5 WHT/ BLK
2
34
25
21
23
B-105
4
H-85
0.5 WHT/ BLK
Instrument Panel (IP) Cluster.A
Brake Fluid Level Switch
Diode
Parking Brake Switch
8
7
4
B-225
0.5 BLK
1
B-48
J/C-EA10P1
10
3 BLK
B-53
2
5
1
B-226
Z
0.5 VIO/WHT
AA
0.5 RED/BLU
AB
0.5 RED/WHT
AC
AD
AE
0.85 WHT/ RED
0.85 WHT/ BLU
0.5 RED/ GRN


DRL Control Unit.A
0.5 RED/ WHT
0.5 RED/ WHT
11
10
B-255
Sub J/B
14
B-256
PIM.B
CRR Switch
CRS Switch
16
15
B-262
B
1
B-39
Diode 1
2
B-39
DRL Control Unit.A
0.5 VIO/ WHT
0.5 VIO/ WHT
5
6
B-257
Sub J/B
13
B-257
Cab J/B1
Headlight Low Relay
Headlight High Relay
Taillight Relay
6
7
B-18
22
B-22
0.5 PNK/ BLU
0.5 GRY
0.5 RED/ WHT
0.5 RED/ BLU
0.5 GRN/ ORN
0.5 VIO/ WHT
5
6
16
13
18
14
B-35
Combination Switch
Resume Accel
Dimmer Switch
E
HU
HL
H'
Lo
Hi
Pass
Lighting Switch
E
T
H
Off
Tail
Head
4
0.5 BLK/ BLU
0.5 BLK/BLU
PIM.B
11
B-264 J/C-30P
10
9
8
0.5 BLK/BLU
Cruise Main Switch
0.5 BLK/BLU
Cruise Main Switch
15
B-35
0.5 BLK
8
B-258
Sub J/B
A


HOT AT ALL TIMES
HOT IN ON
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-26 Turn, Hazard 15A
F-21 Meter 10A
F-29 Cornering Lamps 10A
F-28 Illuminations 10A
B
5 B-18 0.85 RED
11 B-23 0.5 GRN/ YEL 9 B-258
11 B-18 0.5 RED/ BLK 1 B-246
10 B-18
0.5 GRN/ YEL 3
Sub J/B
B-260 18
17 B-260 0.5 GRN/ YEL 1 B-216
Cornering Light Relay
5 0.5 ORN/ BLU
2 B-246 0.5 BLK/ RED 5 B-254
Illumination Control Switch
8 0.5 LT GRN/ BLK
4 0.5 LT GRN/ RED B-256
Flasher Unit B-216
0.5 GRN/BLK B-254
0.5 GRN/WHT B-256
Sub J/B
C
D
7 0.5 BLK
6 0.5 RED/ WHT
5 0.5 RED/ BLK
8 B-216 0.5 RED/ BLU
18 0.5 BLK/ RED
6 B-254 0.5 BLK/ RED
9 B-255 0.5 LT GRN/ BLK
12 B-253 0.5 LT GRN/ RED
2 H-92
3 H-87
0.5 BLK/ RED
8 3 B-170
1 D-2
1 D-3
Front Cornering Light LH
Front Cornering Light RH
Hazard Warning Flasher Switch
2 D-2 0.5 GRN/ BLK
2 D-3 0.5 GRN/ WHT
7 4 B-170
5 H-31
5 H-32
0.5 GRN/ BLK 12 B-35
0.5 GRN/ WHT 11 B-35
3 2
TR TL
Turn Signal Light Switch
E HZ
L R B
Combination Switch
Cornering Switch
0.5 BLK
1 0.5 BLK
10 B-35
0.5 BLK
16 17 B-258
7 B-259
A E
Sub J/B
4 B-258 2 BLK
Weld Splice10
3 BLK
Refer to Ground Distribution
B-57
B-58
B-49 J/C-EA10P2
B-48 J/C-EA10P1
3 BLK
B-52
B-53


HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-27 Tail Lamps 10A
H
5 B-19
0.5 GRN/ RED
1 B-258
Sub J/B
B-260
0.5 GRN/ RED
14
13
3 B-259
0.5 GRN/ RED
4 H-45
0.5 GRN/ RED
L-20 J/C-3
L-23 J/C-7
0.5 GRN/RED
Sub J/B
C
F
D
G
11
10 B-254
0.5 GRN/ BLK
0.5 GRN/ WHT
2 H-31
2 H-32
0.5 GRN/ BLK
0.5 GRN/ WHT
1 D-12
1 D-13
Side Turn Signal Light LH
Side Turn Signal Light RH
0.5 GRN/ RED
1 L-24
Marker1
1 L-28
Identification Light 3
1 L-27
Identification Light 2
1 L-26
Identification Light 1
1 L-25
Marker2
2 D-12
2 D-13
2 L-24
2 L-28
2 L-27
2 L-26
2 L-25
0.5 BLK
L-21 J/C-4
L-22 J/C-5
0.5 BLK
1 H-31
1 H-32
6 H-45
8
6
16 B-259
E
I


Sub J/B
F
G
J
K
12 B-256
11 B-256
0.5 GRN/ BLK
5 H-81
Instrument Panel (IP) Cluster
0.5 RED/ BLU
3 B-260
Stoplight Relay
0.5 GRN
0.5 GRN/ WHT
Shift Lever Switch
N-33
5
0.5 RED/BLU
H-93
3
0.5 RED/BLU
B-260
12
Sub J/B
EHCU
0.5 GRN
6
3 H-81
PCM
0.5 GRN
12 B-259
0.5 GRN/ BLK
0.5 RED/ BLU
23 H-81
Marker Light Relay
Back Buzzer
Upfitter Install
J-111
J-111
2
1
0.5 RED/BLU
0.5 RED/ BLU
0.75 GRN/ RED
1
6
5
2
8 H-66
0.5 GRN/ RED
0.5 GRN
0.5 GRN/ WHT
0.5 GRN
0.5 GRN/ RED
1 J-71
5
1
2
3 J-73
4
5
1
2
3 J-74
License Plate Light
Backup Light
Tail-light
Stop-light
Turn Signal Light
Rear Combi-nation Light LH
Back Buzzer
Backup Light
Tail-light
Stop-light
Turn Signal Light
Rear Combi-nation Light RH
1 J-72
6 J-73
6 J-74
1.25 BLK
0.5 BLK
1.25 BLK
0.5 BLK
1.25 BLK
7 H-66
0.5 BLK
1.25 BLK
Refer to Ground Distribution
3 BLK
J-9


HOT AT ALL TIMES
HOT IN ON
Cab J/B1
F-12 Brake Lamps 10A
F-20 ECM 10A
H
3 2 X-1
5 B-19
6 B-23
1 B-18
Stoplight Relay
5 1 X-1
12
4 B-22
0.5GRN
Stoplight
0.5 GRN/ RED
1 B-258
J
K
2
1 B-255
1 B-259
12
10 B-258
0.5 GRN/ RED
0.5 GRN/ BLK
0.5 GRN/ WHT
3 H32
3 H31
0.5 GRN/ RED
0.5 GRN/ RED
0.5 GRN/ RED
0.5 GRN/ RED
Sub J/B
1 B-254
13 B-256
0.5 GRN/ WHT
0.5 GRN/ WHT
0.5 GRN/ BLK
26
27 B-105
Turn RH
Turn LH
Instru- ment Panel (IP) Cluster
4 B-105
0.5 GRN
9 B-258
Sub J/B
18 B-260
0.5 GRN
2 B-437
Resistor
1 B
1 B-72
1 B-73
1 D-43
1 D-41
1 B-70
1 B-71
4
2 B-211
Front Turn Signal Light LH
Front Turn Signal Light RH
Side Marker Light RH
Side Marker Light LH
Front Position Light LH
Front Position Light RH
Stoplight Switch
2 B-72
2 B-73
2 D-43
2 D-41
2 B-70
2 B-71
1
3 B-211
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLU/ ORN
8 H-81
0.5 BLU/ ORN
ECM
0.5 BLK/ ORN
0.5 BLK/ ORN
0.5 BLK
0.5 BLK
5 H-87
15 H-92
B-264 J/C-30P
25
29
24
26
33
2 BLK
0.5 BLK
0.5 BLK
13
2 BLK
B-264 J/C-30P
12
14 B-259
14
5 B-255
15 B-260
Sub J/B
I
B-49 J/C-EA10P2
9
3
3 BLK
10
4
5
B-48 J/C-EA10P1
6
5
10
3 BLK
Refer to Ground Distribution
3 BLK
Refer to Ground Distribution
B-52
B-53

Description and Operation

Interior Lights Circuit Description

The circuit consists of the dome light, dome light switch, door switch and rear dome light switch.

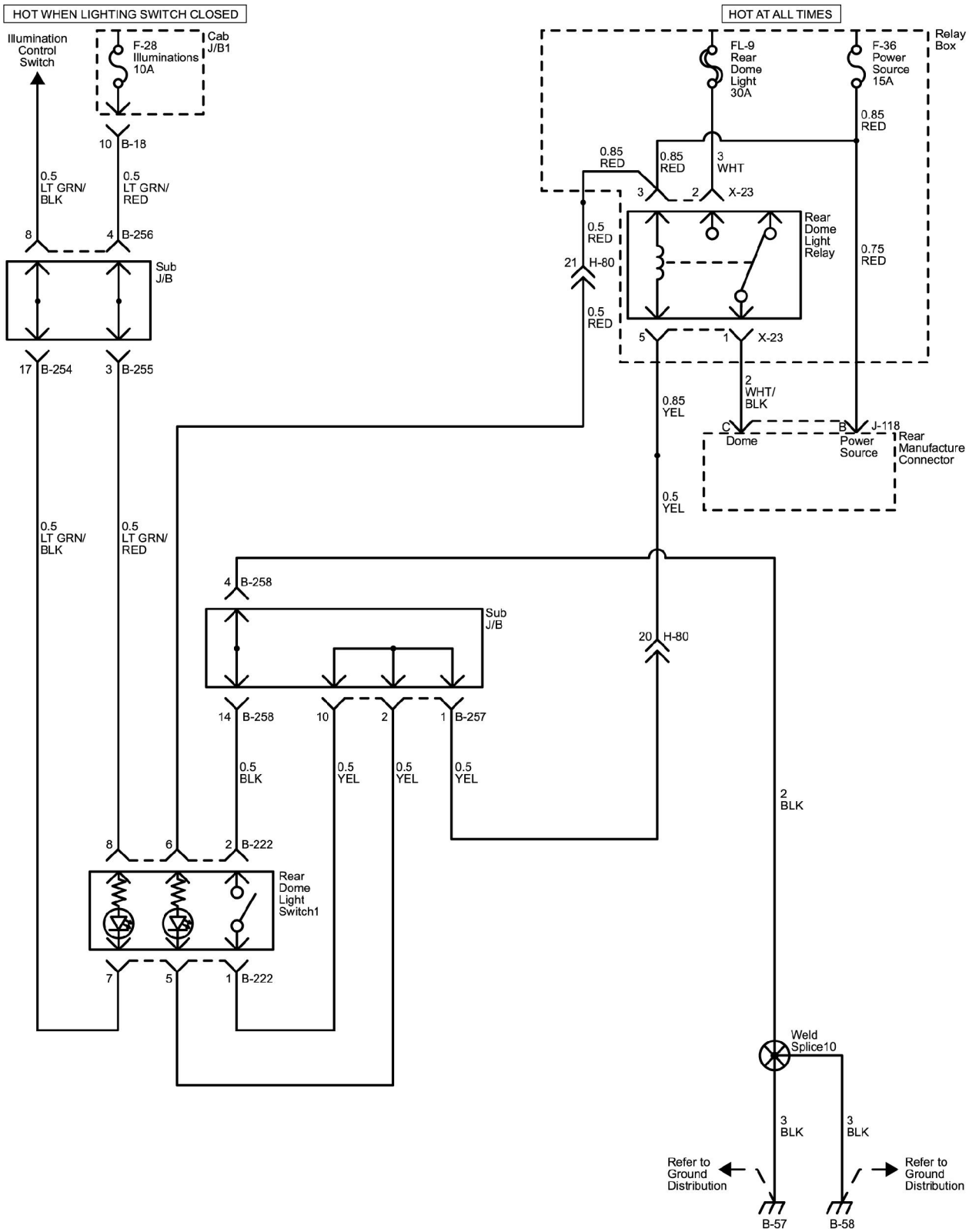
The dome light lights up when the door is opened with the switch set at the door mode. It can be lit by operating ON or OFF of the dome light switch.

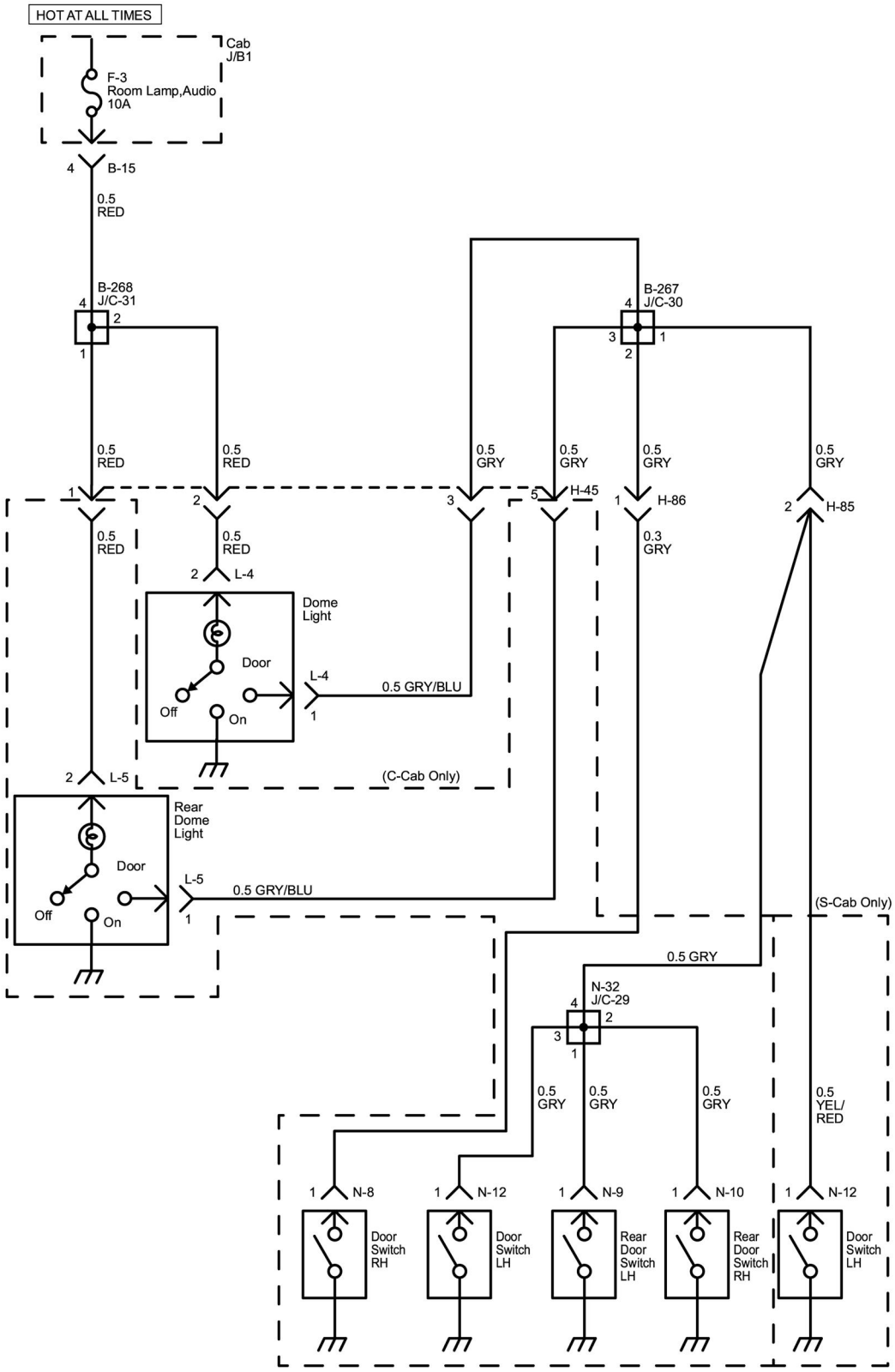
The dome light can be lit by respective switch independent of the position of the ignition switch.

By operating the dome light switch fitted on the instrument panel, the dome light can be lit independent of the switch position of dome light.

Schematic and Routing Diagrams

Interior Lights Schematics




HOT AT ALL TIMES
Cab
J/B1
F-3
Room Lamp,Audio
10A
4
B-15
0.5
RED
B-268
J/C-31
4
2
1
B-267
J/C-30
4
3
1
2
0.5
RED
0.5
RED
0.5
GRY
0.5
GRY
0.5
GRY
0.5
GRY
1
2
3
5
H-45
1
H-86
2
H-85
0.5
RED
0.3
GRY
2
L-4
Dome
Light
Door
Off
On
L-4
0.5 GRY/BLU
1
2
L-5
(C-Cab Only)
Rear
Dome
Light
Door
Off
On
L-5
0.5 GRY/BLU
1
(S-Cab Only)
0.5 GRY
N-32
J/C-29
4
2
3
1
0.5
GRY
0.5
GRY
0.5
GRY
0.5
YEL/
RED
1
N-8
1
N-12
1
N-9
1
N-10
1
N-12
Door
Switch
RH
Door
Switch
LH
Rear
Door
Switch
LH
Rear
Door
Switch
RH
Door
Switch
LH

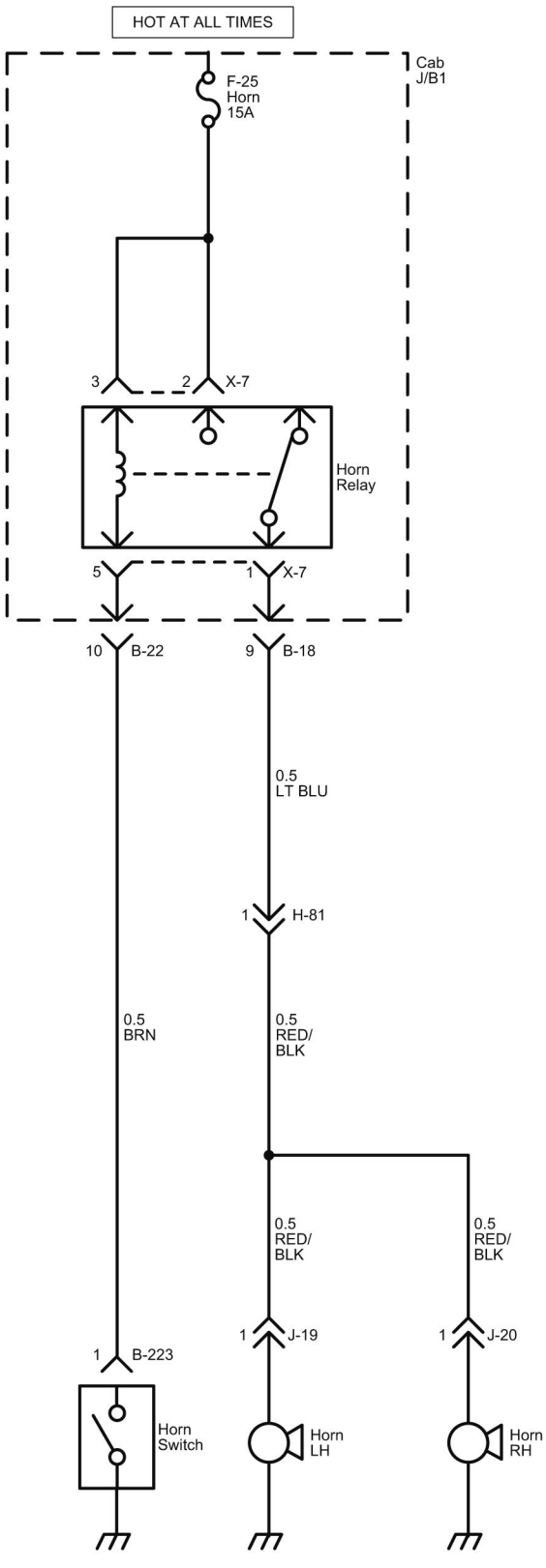
Description and Operation

Horns Circuit Description

The circuit consists of the horns, the horn switch and the relay. Horn operation is not dependent upon starter switch position. Pressing the horn pad (horn switch) activates the relay and causes the horns to sound.

Schematic and Routing Diagrams

Horn Schematics



LNWG80XF010101

Description and Operation

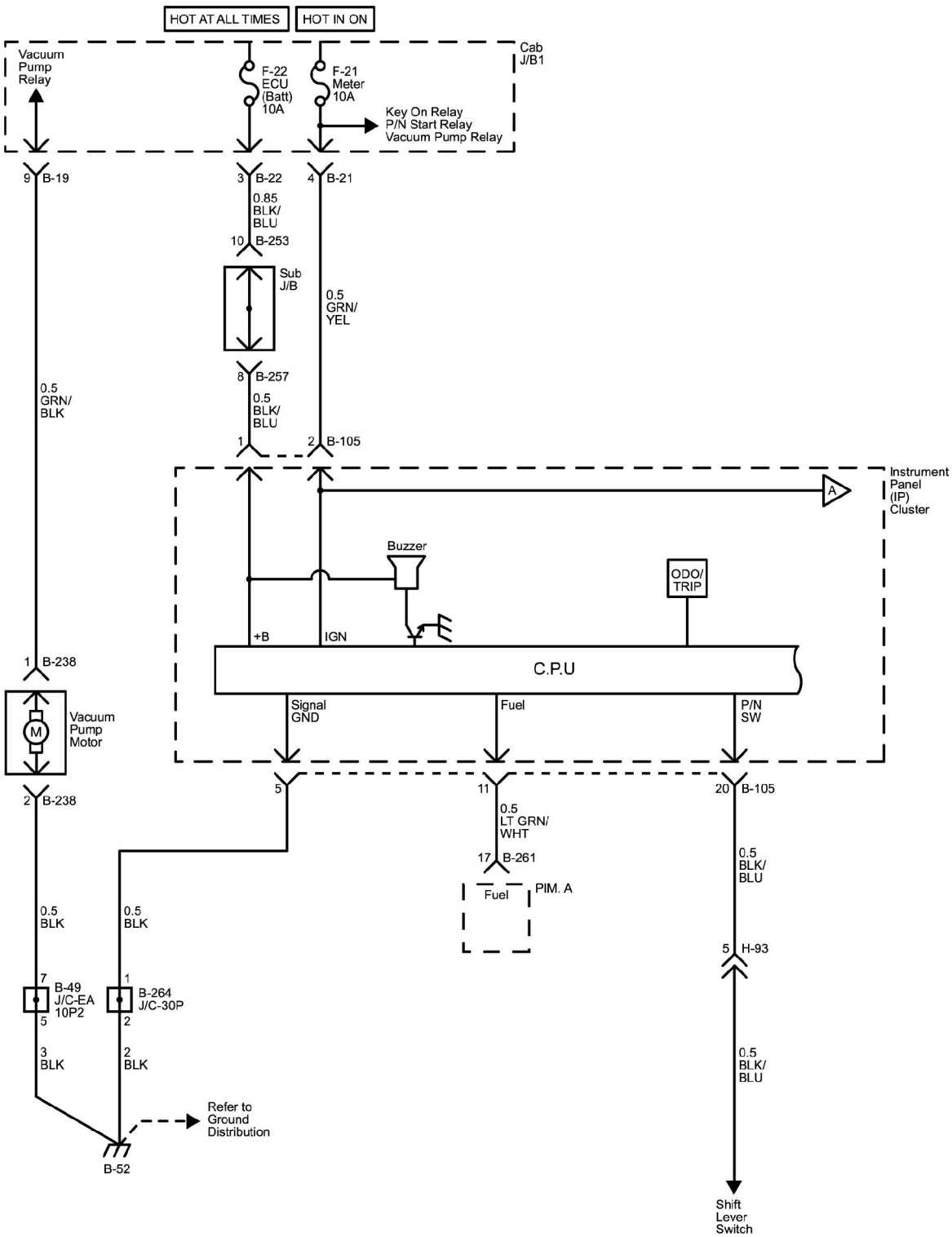
Instrument Cluster Circuit Description

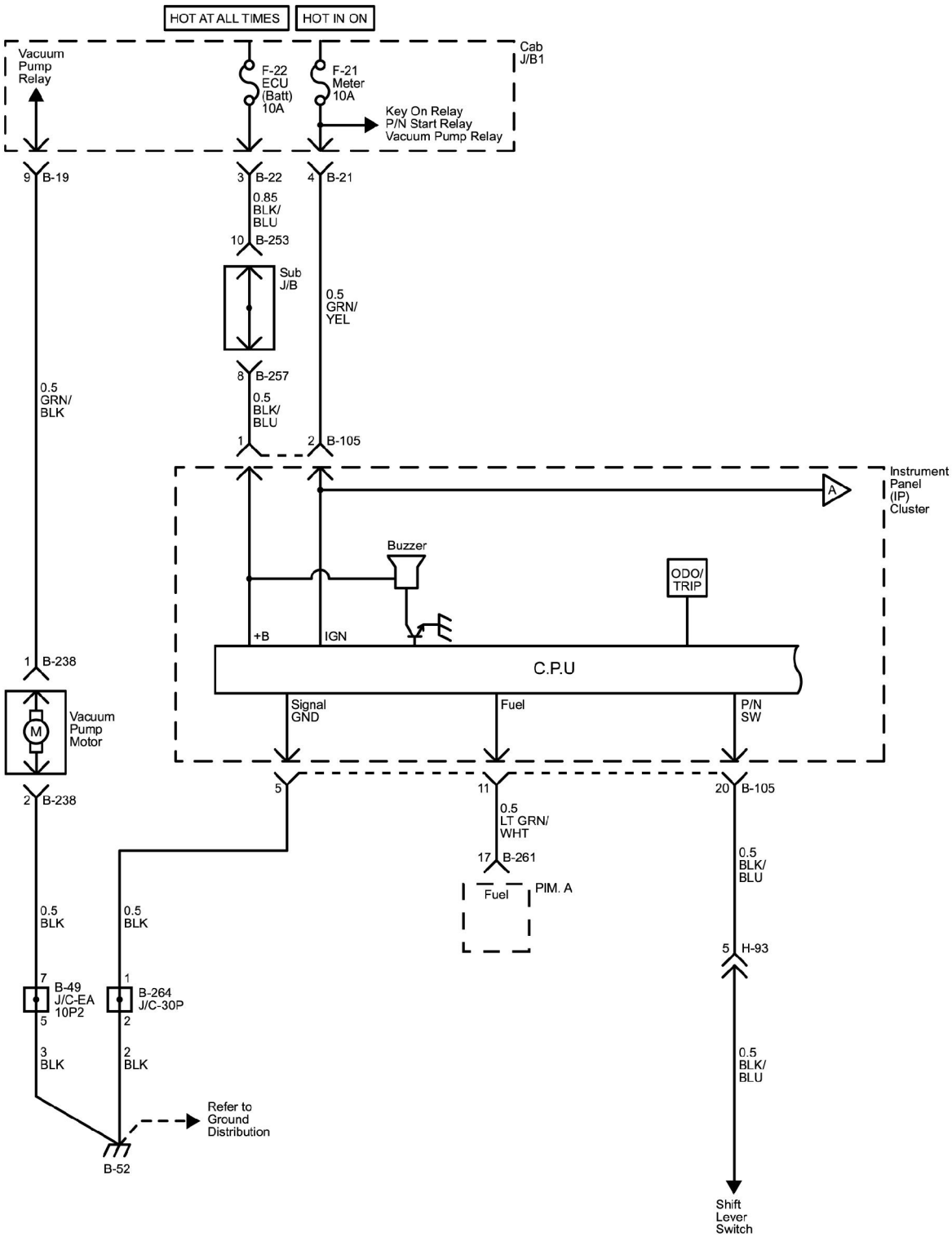
The circuit consists of the ignition switch, instrument panel (IP) cluster, vacuum tank switch, oil pressure switch, brake fluid level switch, parking brake switch, vehicle speed sensor, fuel tank unit, A/T shift indicator and thermo unit.

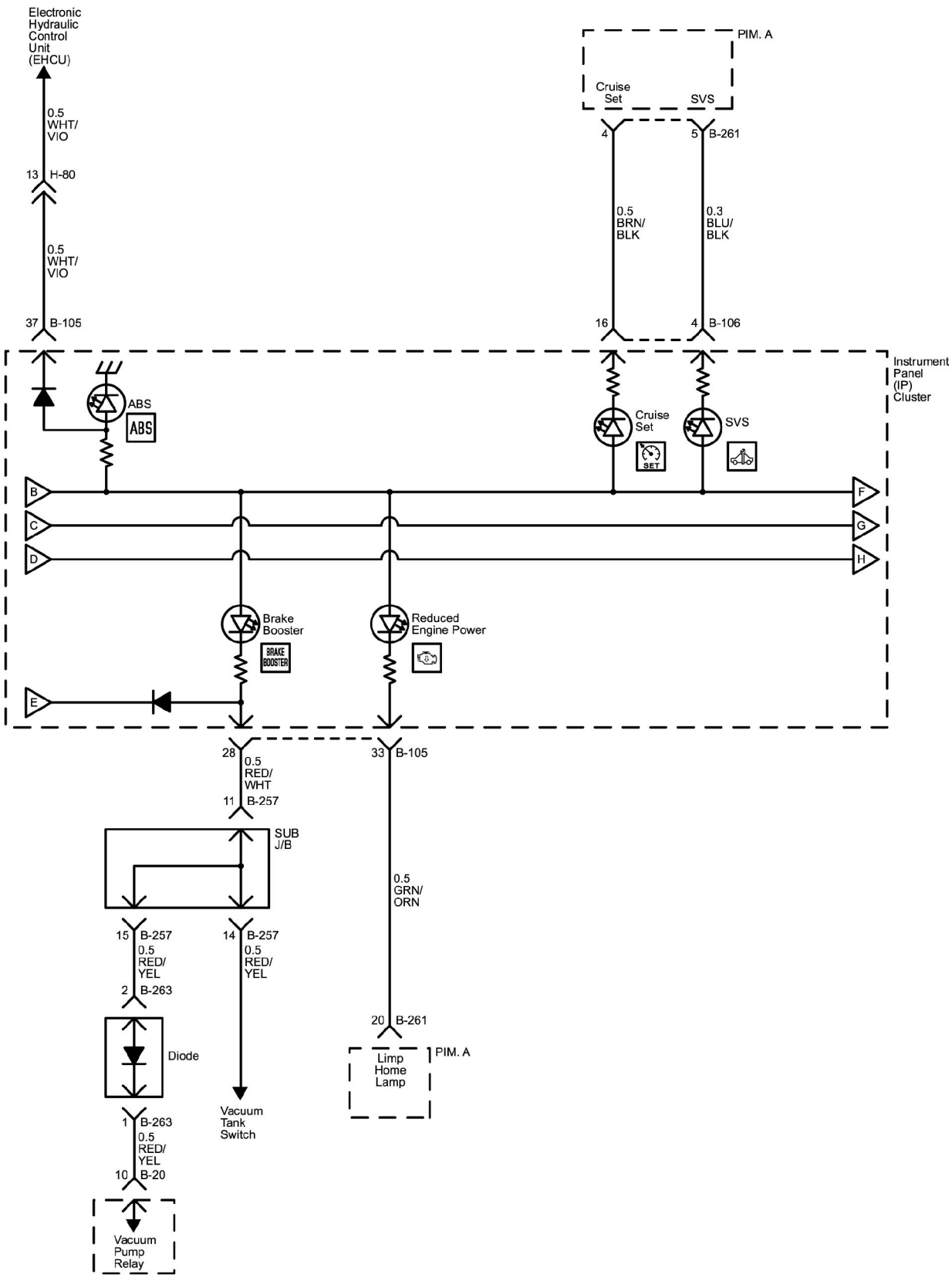
The instrument panel (IP) cluster contains the speedometer, tachometer, fuel gauge, engine coolant temperature gauge and the warning/indicator light.

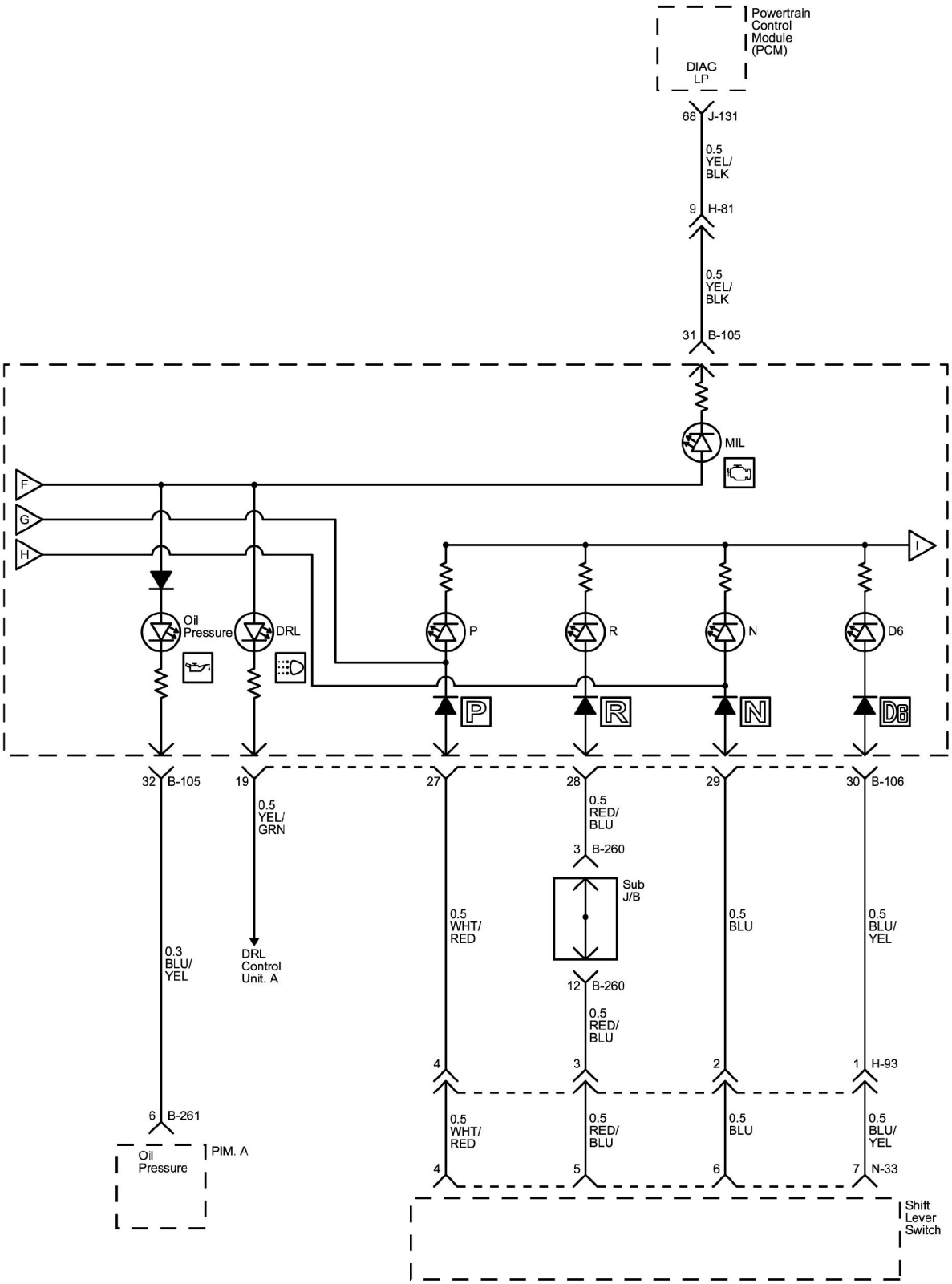
Schematic and Routing Diagrams

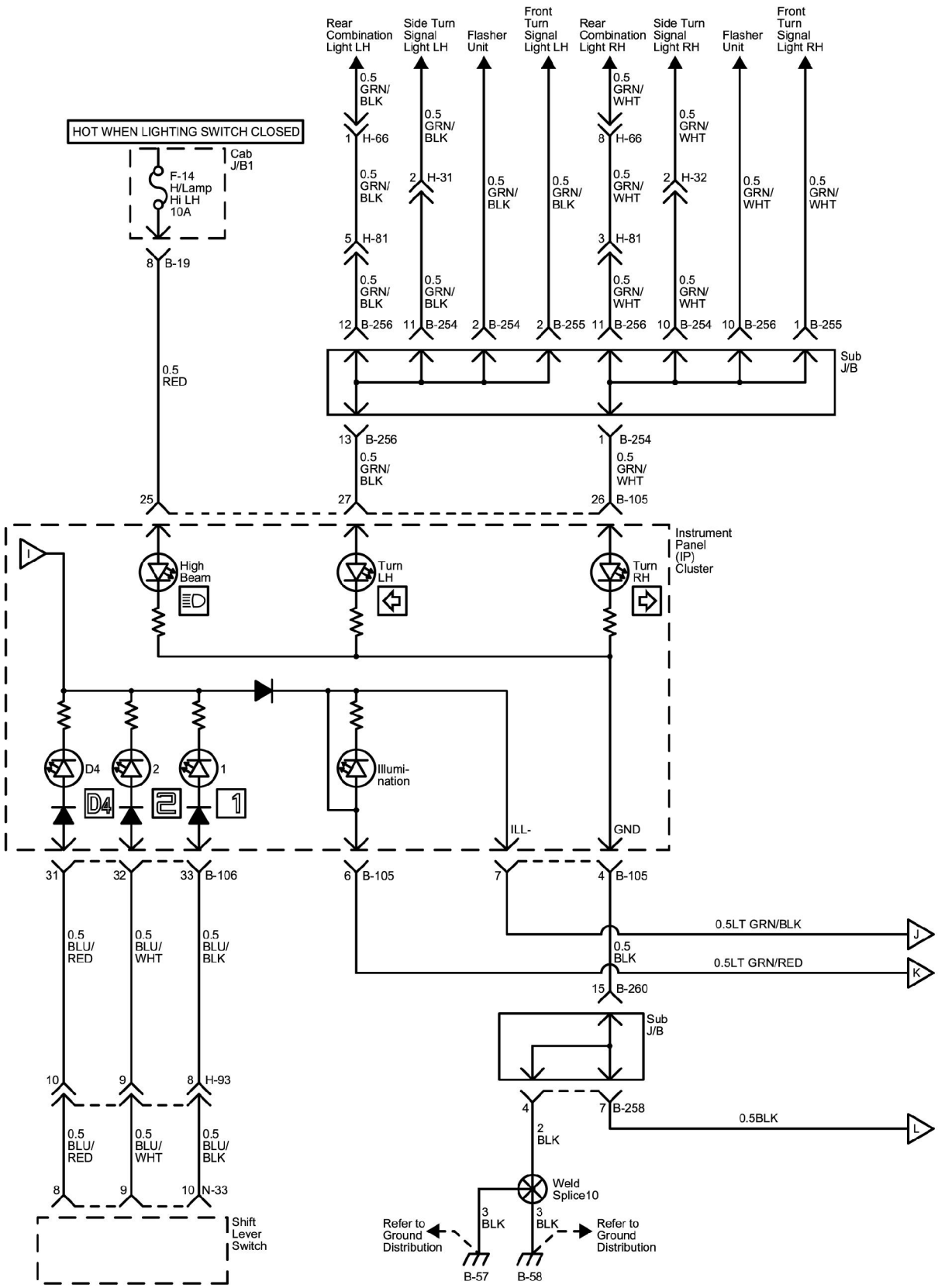
Instrument Cluster Schematics

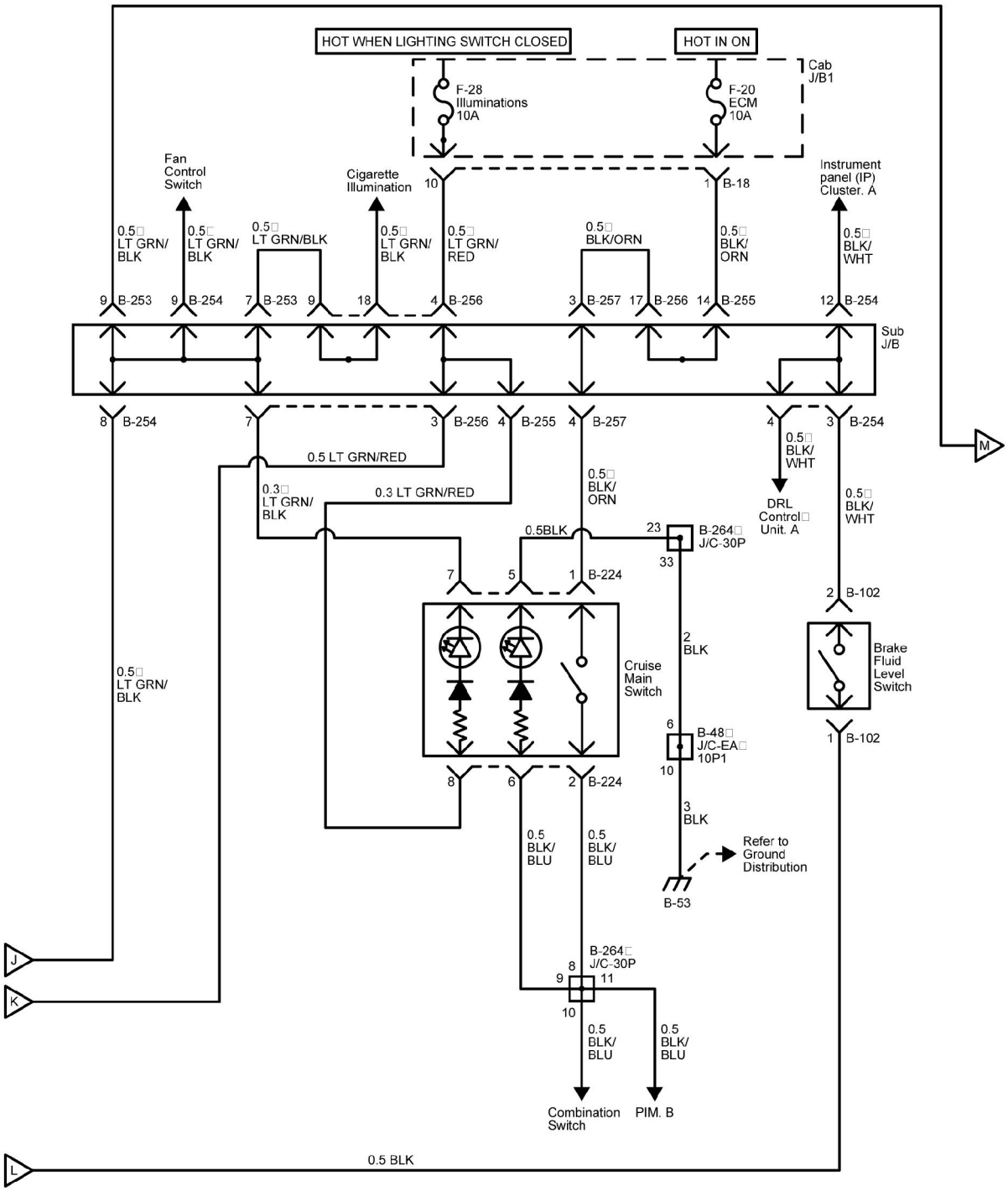


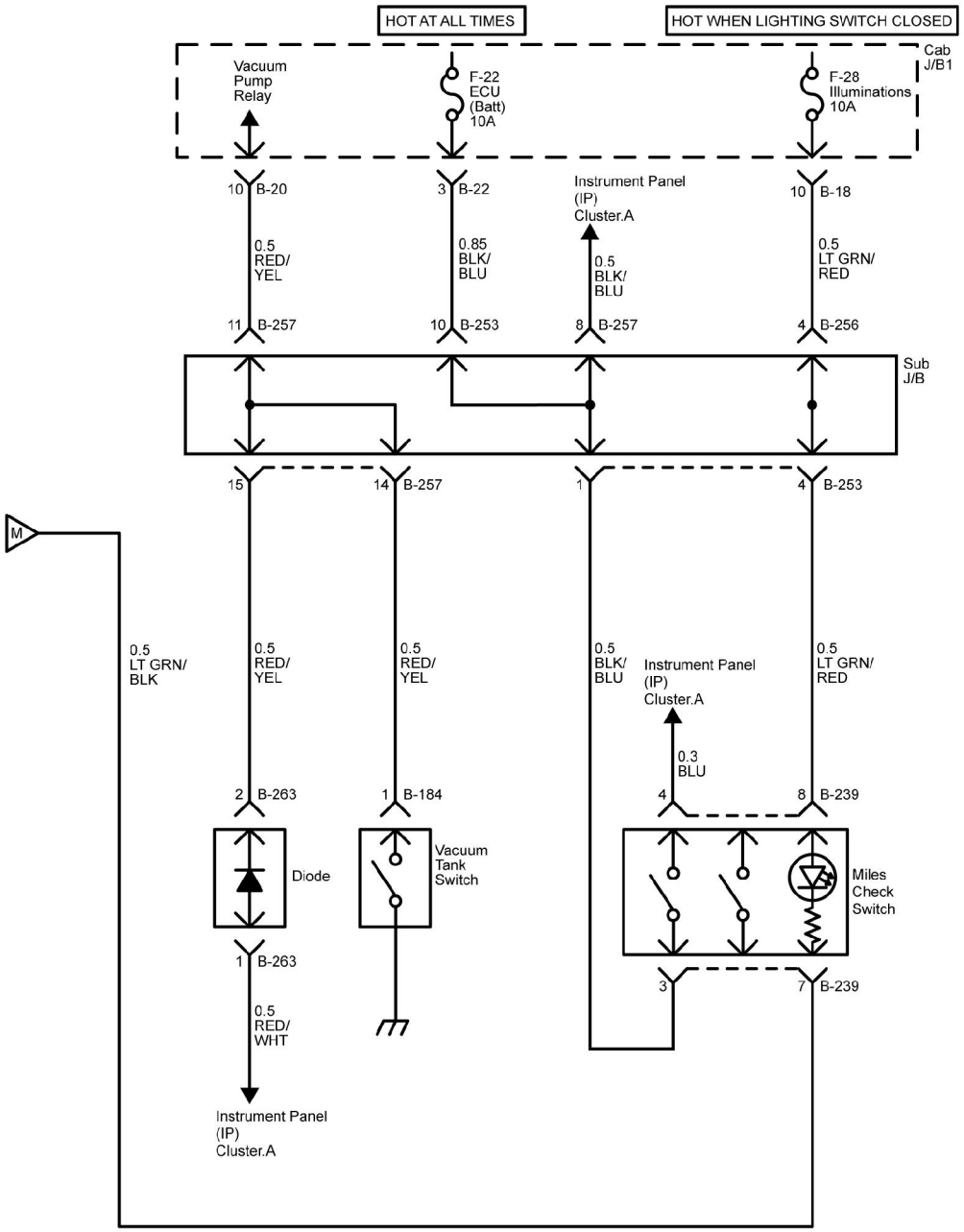

HOT AT ALL TIMES
HOT IN ON
Cab J/B1
Vacuum Pump Relay
F-22 ECU (Batt) 10A
F-21 Meter 10A
Key On Relay
P/N Start Relay
Vacuum Pump Relay
9 B-19
3 B-22
4 B-21
0.85 BLK/ BLU
10 B-253
Sub J/B
0.5 GRN/ YEL
8 B-257
0.5 BLK/ BLU
1
2 B-105
0.5 GRN/ BLK
Instrument Panel (IP) Cluster
A
Buzzer
ODO/ TRIP
+B
IGN
C.P.U
Signal GND
Fuel
P/N SW
1 B-238
Vacuum Pump Motor
M
2 B-238
5
11
20 B-105
0.5 LT GRN/ WHT
17 B-261
Fuel
PIM. A
0.5 BLK/ BLU
5 H-93
0.5 BLK/ BLU
Shift Lever Switch
0.5 BLK
0.5 BLK
7
B-49 J/C-EA 10P2
5
1
B-264 J/C-30P
2
3 BLK
2 BLK
Refer to Ground Distribution
B-52

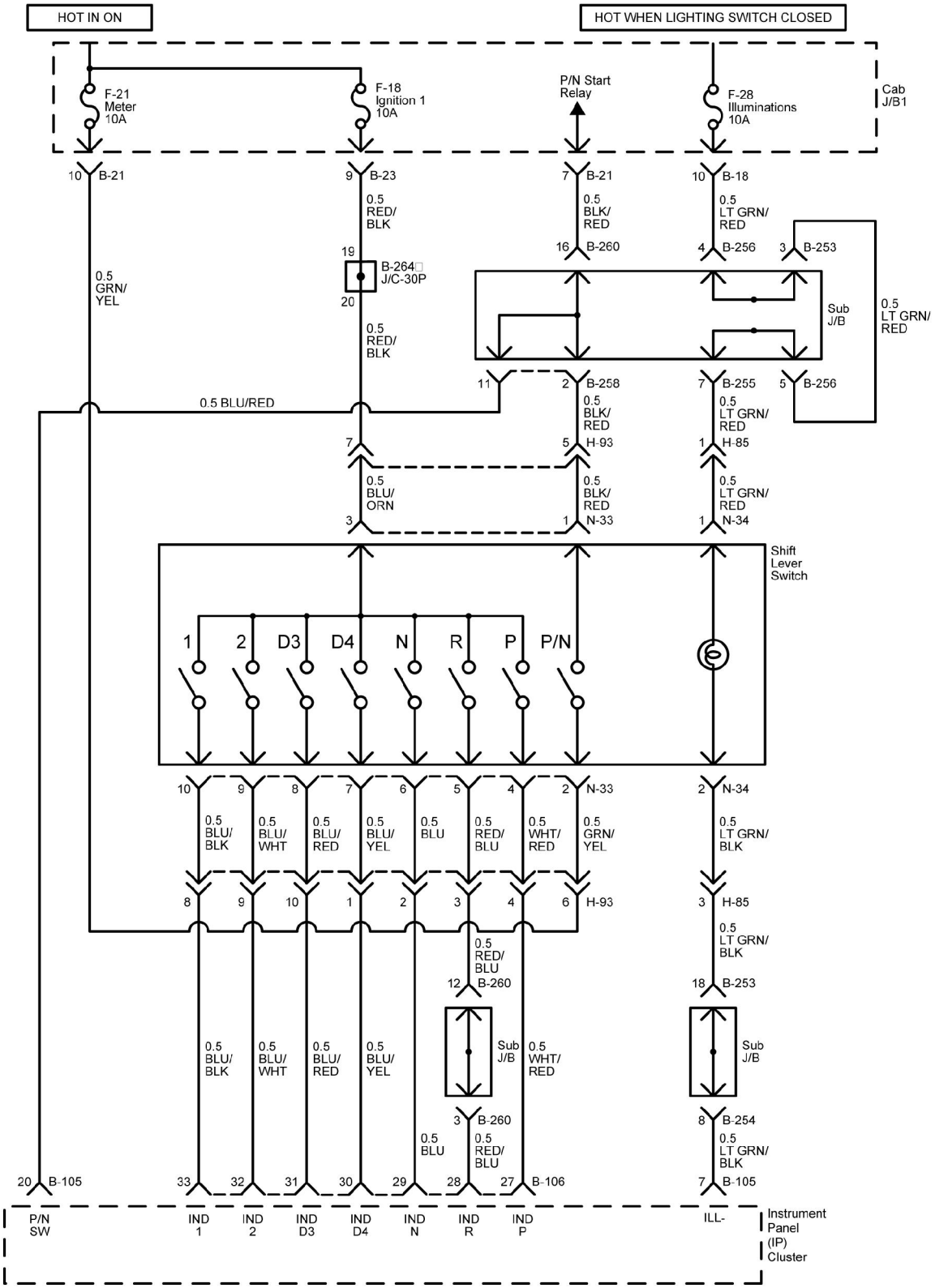

Electronic Hydraulic Control Unit (EHCU)
0.5 WHT/ VIO
13 H-80
0.5 WHT/ VIO
37 B-105
PIM. A
Cruise Set
SVS
4
5 B-261
0.5 BRN/ BLK
0.3 BLU/ BLK
16
4 B-106
Instrument Panel (IP) Cluster
ABS
ABS
Cruise Set
SET
SVS
B
C
D
F
G
H
Brake Booster
BRAKE BOOSTER
Reduced Engine Power
E
28
0.5 RED/ WHT
11 B-257
SUB J/B
15 B-257
0.5 RED/ YEL
2 B-263
Diode
1 B-263
0.5 RED/ YEL
10 B-20
Vacuum Pump Relay
14 B-257
0.5 RED/ YEL
Vacuum Tank Switch
33 B-105
0.5 GRN/ ORN
20 B-261
Limp Home Lamp
PIM. A


Powertrain Control Module (PCM)
DIAG LP
68
J-131
0.5 YEL/ BLK
9
H-81
0.5 YEL/ BLK
31
B-105
Instrument Panel (IP) Cluster
MIL
F
G
H
I
Oil Pressure
DRL
P
R
N
D6
32
B-105
19
0.5 YEL/ GRN
27
28
0.5 RED/ BLU
29
30
B-106
3
B-260
Sub J/B
0.5 WHT/ RED
0.5 BLU
0.5 BLU/ YEL
0.3 BLU/ YEL
DRL Control Unit. A
12
B-260
0.5 RED/ BLU
4
3
2
1
H-93
6
B-261
0.5 WHT/ RED
0.5 RED/ BLU
0.5 BLU
0.5 BLU/ YEL
Oil Pressure
PIM. A
4
5
6
7
N-33
Shift Lever Switch


HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-14 H/Lamp Hi LH 10A
8 B-19
0.5 RED
25
Rear Combination Light LH
Side Turn Signal Light LH
Flasher Unit
Front Turn Signal Light LH
Rear Combination Light RH
Side Turn Signal Light RH
Flasher Unit
Front Turn Signal Light RH
0.5 GRN/BLK
1 H-66
2 H-31
5 H-81
12 B-256
11 B-254
2 B-254
2 B-255
0.5 GRN/WHT
8 H-66
2 H-32
3 H-81
11 B-256
10 B-254
10 B-256
1 B-255
Sub J/B
13 B-256
1 B-254
27
26 B-105
Instrument Panel (IP) Cluster
High Beam
Turn LH
Turn RH
D4
2
1
Illumi-nation
ILL-
GND
31
32
33 B-106
6 B-105
7
4 B-105
0.5LT GRN/BLK
0.5LT GRN/RED
J
K
0.5 BLK
15 B-260
Sub J/B
4
7 B-258
0.5BLK
L
2 BLK
Weld Splice10
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
B-57
B-58
0.5 BLU/RED
0.5 BLU/WHT
0.5 BLU/BLK
10
9
8 H-93
8
9
10 N-33
Shift Lever Switch


HOT WHEN LIGHTING SWITCH CLOSED
HOT IN ON
Cab J/B1
F-28 Illuminations 10A
F-20 ECM 10A
Fan Control Switch
Cigarette Illumination
Instrument panel (IP) Cluster. A
10
1 B-18
0.5 LT GRN/ BLK
0.5 LT GRN/ BLK
0.5 LT GRN/BLK
0.5 LT GRN/ BLK
0.5 LT GRN/ RED
0.5 BLK/ORN
0.5 BLK/ ORN
0.5 BLK/ WHT
9 B-253
9 B-254
7 B-253
9
18
4 B-256
3 B-257
17 B-256
14 B-255
12 B-254
Sub J/B
8 B-254
7
3 B-256
4 B-255
4 B-257
4
3 B-254
0.5 LT GRN/RED
0.3 LT GRN/RED
0.3 LT GRN/ BLK
0.5 BLK/ ORN
0.5 BLK/ WHT
DRL Control Unit. A
0.5BLK
23
B-264 J/C-30P
33
7
5
1 B-224
2 B-102
0.5 LT GRN/ BLK
Cruise Main Switch
2 BLK
Brake Fluid Level Switch
6
B-48 J/C-EA 10P1
10
1 B-102
8
6
2 B-224
3 BLK
Refer to Ground Distribution
B-53
0.5 BLK/ BLU
0.5 BLK/ BLU
B-264 J/C-30P
8
9
11
10
0.5 BLK/ BLU
0.5 BLK/ BLU
Combination Switch
PIM. B
J
K
L
0.5 BLK
M


HOT AT ALL TIMES
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
Vacuum Pump Relay
F-22 ECU (Batt) 10A
F-28 Illuminations 10A
10 B-20
3 B-22
Instrument Panel (IP) Cluster.A
10 B-18
0.5 RED/ YEL
0.85 BLK/ BLU
0.5 BLK/ BLU
0.5 LT GRN/ RED
11 B-257
10 B-253
8 B-257
4 B-256
Sub J/B
15
14 B-257
1
4 B-253
M
0.5 LT GRN/ BLK
0.5 RED/ YEL
0.5 RED/ YEL
0.5 BLK/ BLU
Instrument Panel (IP) Cluster.A
0.5 LT GRN/ RED
0.3 BLU
2 B-263
1 B-184
4
8 B-239
Diode
Vacuum Tank Switch
Miles Check Switch
1 B-263
3
7 B-239
0.5 RED/ WHT
Instrument Panel (IP) Cluster.A


HOT IN ON
HOT WHEN LIGHTING SWITCH CLOSED
F-21 Meter 10A
F-18 Ignition 1 10A
P/N Start Relay
F-28 Illuminations 10A
Cab J/B1
10 B-21
9 B-23
0.5 RED/ BLK
7 B-21
0.5 BLK/ RED
10 B-18
0.5 LT GRN/ RED
16 B-260
4 B-256
3 B-253
19
B-264 J/C-30P
20
0.5 GRN/ YEL
0.5 RED/ BLK
Sub J/B
0.5 LT GRN/ RED
11
2 B-258
0.5 BLK/ RED
7 B-255
0.5 LT GRN/ RED
5 B-256
0.5 BLU/RED
7
5 H-93
1 H-85
0.5 BLU/ ORN
0.5 BLK/ RED
0.5 LT GRN/ RED
3
1 N-33
1 N-34
Shift Lever Switch
1
2
D3
D4
N
R
P
P/N
10
9
8
7
6
5
4
2 N-33
2 N-34
0.5 BLU/ BLK
0.5 BLU/ WHT
0.5 BLU/ RED
0.5 BLU/ YEL
0.5 BLU
0.5 RED/ BLU
0.5 WHT/ RED
0.5 GRN/ YEL
0.5 LT GRN/ BLK
8
9
10
1
2
3
4
6 H-93
3 H-85
0.5 LT GRN/ BLK
0.5 RED/ BLU
12 B-260
18 B-253
Sub J/B
0.5 WHT/ RED
3 B-260
8 B-254
0.5 BLU
0.5 RED/ BLU
0.5 LT GRN/ BLK
20 B-105
33
32
31
30
29
28
27 B-106
7 B-105
P/N SW
IND 1
IND 2
IND D3
IND D4
IND N
IND R
IND P
ILL-
Instrument Panel (IP) Cluster

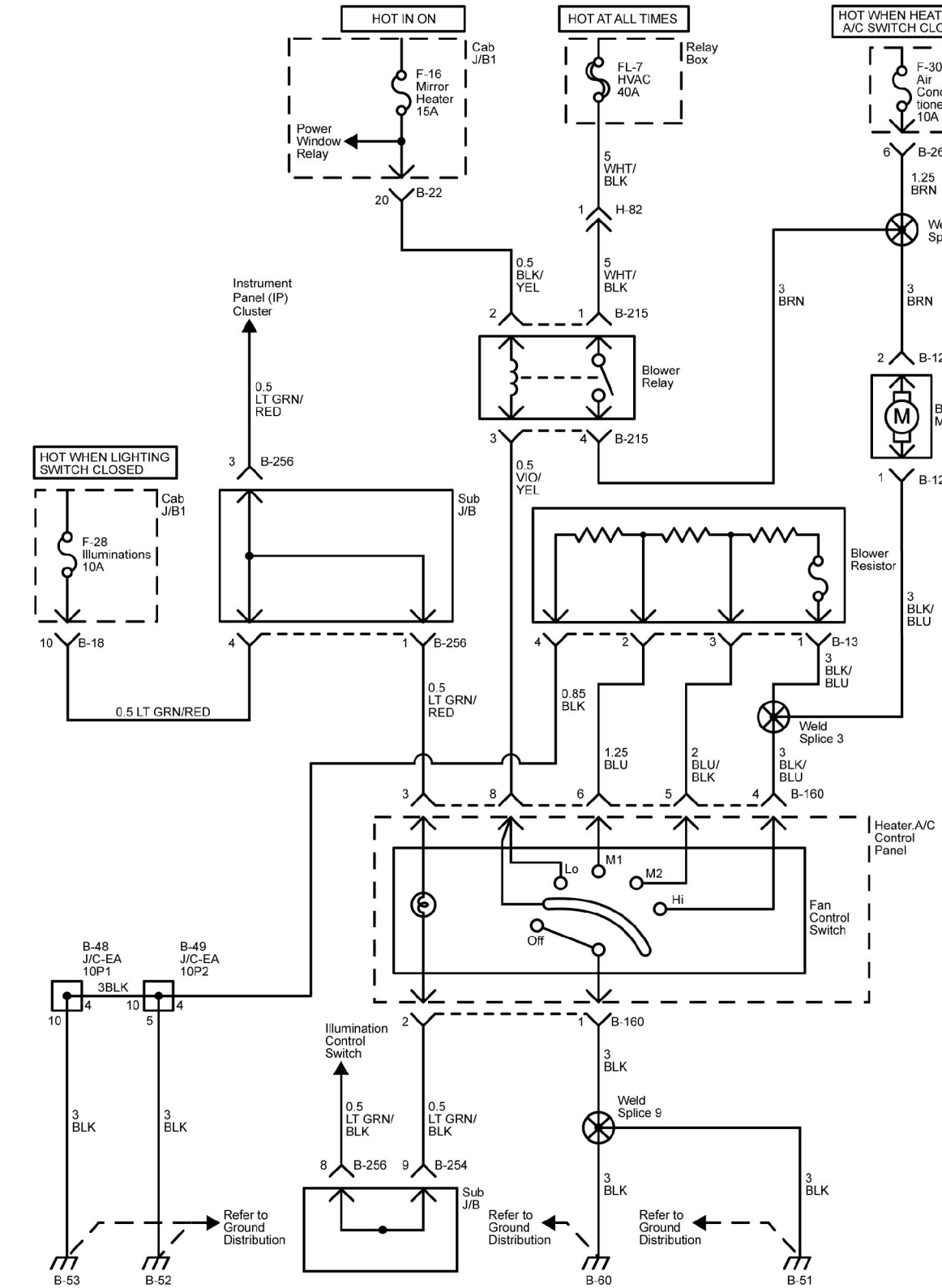
Description and Operation

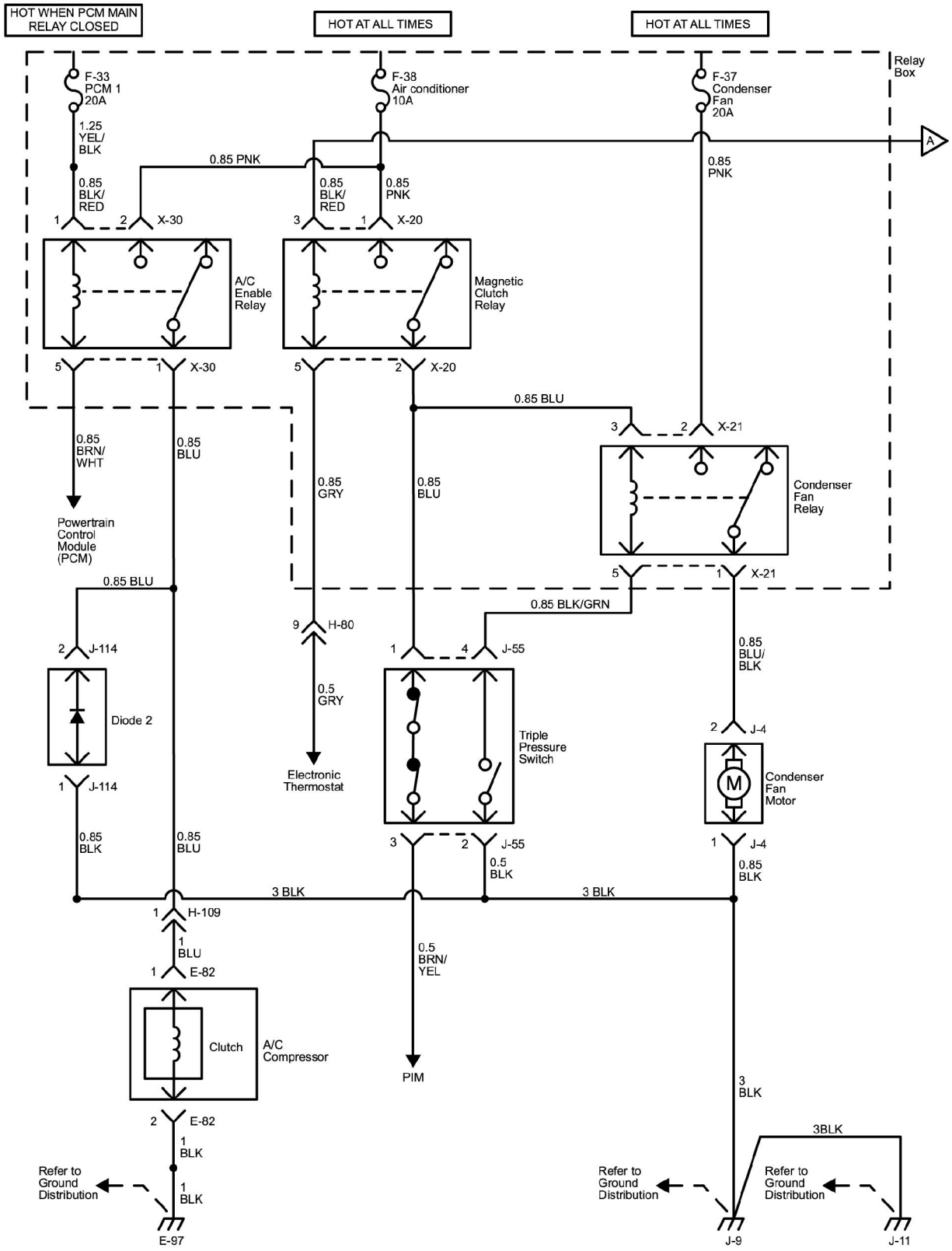
HVAC Circuit Description

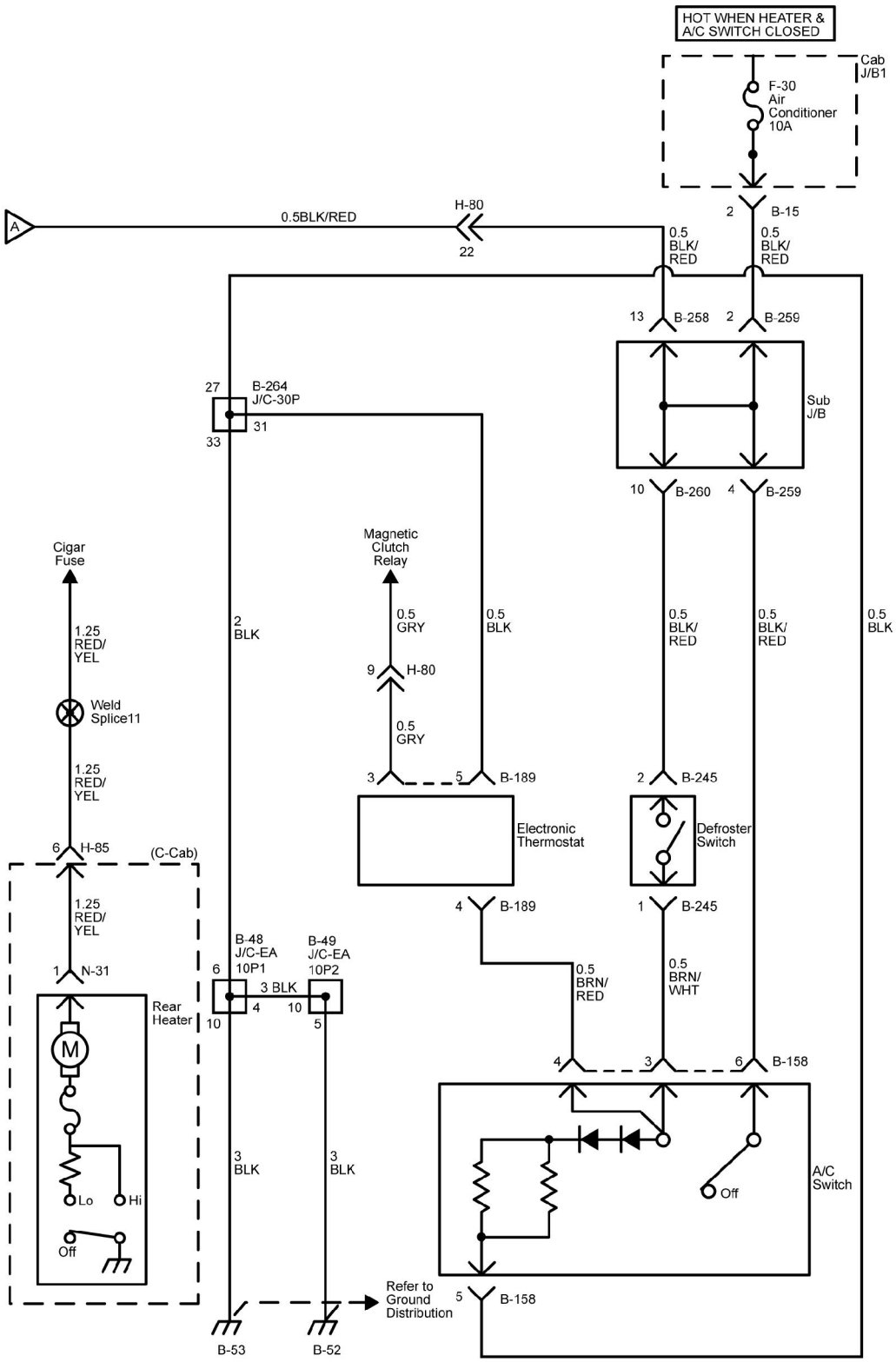
The air conditioning circuit consists of compressor, A/C switch, fan control switch, etc. When the engine is rotating, the A/C starts to work with both the A/C and fan switches 'ON', followed by the engagement of the magnetic clutch. It stops to work when either the fan switch or the A/C switch turns 'OFF'. In addition, the A/C has the function of temporary stop of its operation by function of the pressure switch when sensing abnormal rise of the refrigerant pressure.

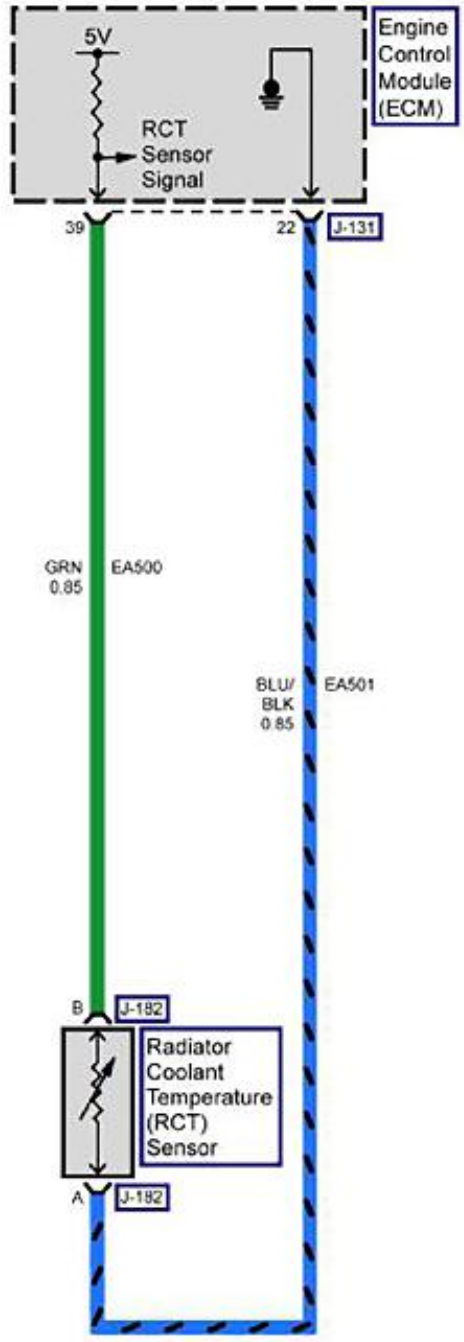
Schematic and Routing Diagrams

HVAC Schematics




HOT WHEN PCM MAIN RELAY CLOSED
HOT AT ALL TIMES
HOT AT ALL TIMES
Relay Box
F-33 PCM 1 20A
F-38 Air conditioner 10A
F-37 Condenser Fan 20A
A
1.25 YEL/ BLK
0.85 PNK
0.85 PNK
0.85 BLK/ RED
0.85 BLK/ RED
0.85 PNK
1
2
X-30
3
1
X-20
A/C Enable Relay
Magnetic Clutch Relay
5
1
X-30
5
2
X-20
0.85 BLU
3
2
X-21
0.85 BRN/ WHT
0.85 BLU
0.85 GRY
0.85 BLU
Condenser Fan Relay
Powertrain Control Module (PCM)
5
1
X-21
0.85 BLU
0.85 BLK/GRN
9
H-80
2
J-114
1
4
J-55
0.85 BLU/ BLK
0.5 GRY
Diode 2
Triple Pressure Switch
2
J-4
Electronic Thermostat
Condenser Fan Motor
1
J-114
3
2
J-55
1
J-4
0.85 BLK
0.85 BLU
0.5 BLK
0.85 BLK
3 BLK
3 BLK
1
H-109
1 BLU
0.5 BRN/ YEL
1
E-82
Clutch
A/C Compressor
PIM
3 BLK
3BLK
2
E-82
1 BLK
Refer to Ground Distribution
1 BLK
Refer to Ground Distribution
Refer to Ground Distribution
E-97
J-9
J-11


HOT WHEN HEATER & A/C SWITCH CLOSED
Cab J/B1
F-30 Air Conditioner 10A
2
B-15
A
0.5BLK/RED
H-80
22
0.5 BLK/ RED
0.5 BLK/ RED
13
B-258
2
B-259
27
B-264 J/C-30P
31
33
Sub J/B
10
B-260
4
B-259
Cigar Fuse
1.25 RED/ YEL
Weld Splice11
1.25 RED/ YEL
6
H-85
(C-Cab)
1.25 RED/ YEL
1
N-31
Rear Heater
M
Lo
Hi
Off
2 BLK
Magnetic Clutch Relay
0.5 GRY
9
H-80
0.5 GRY
0.5 BLK
3
5
B-189
Electronic Thermostat
4
B-189
B-48 J/C-EA 10P1
6
10
3 BLK
4
B-49 J/C-EA 10P2
10
5
3 BLK
3 BLK
B-53
B-52
Refer to Ground Distribution
0.5 BRN/ RED
0.5 BRN/ WHT
2
B-245
Defroster Switch
1
B-245
4
3
6
B-158
Off
A/C Switch
5
B-158
0.5 BLK/ RED
0.5 BLK/ RED
0.5 BLK

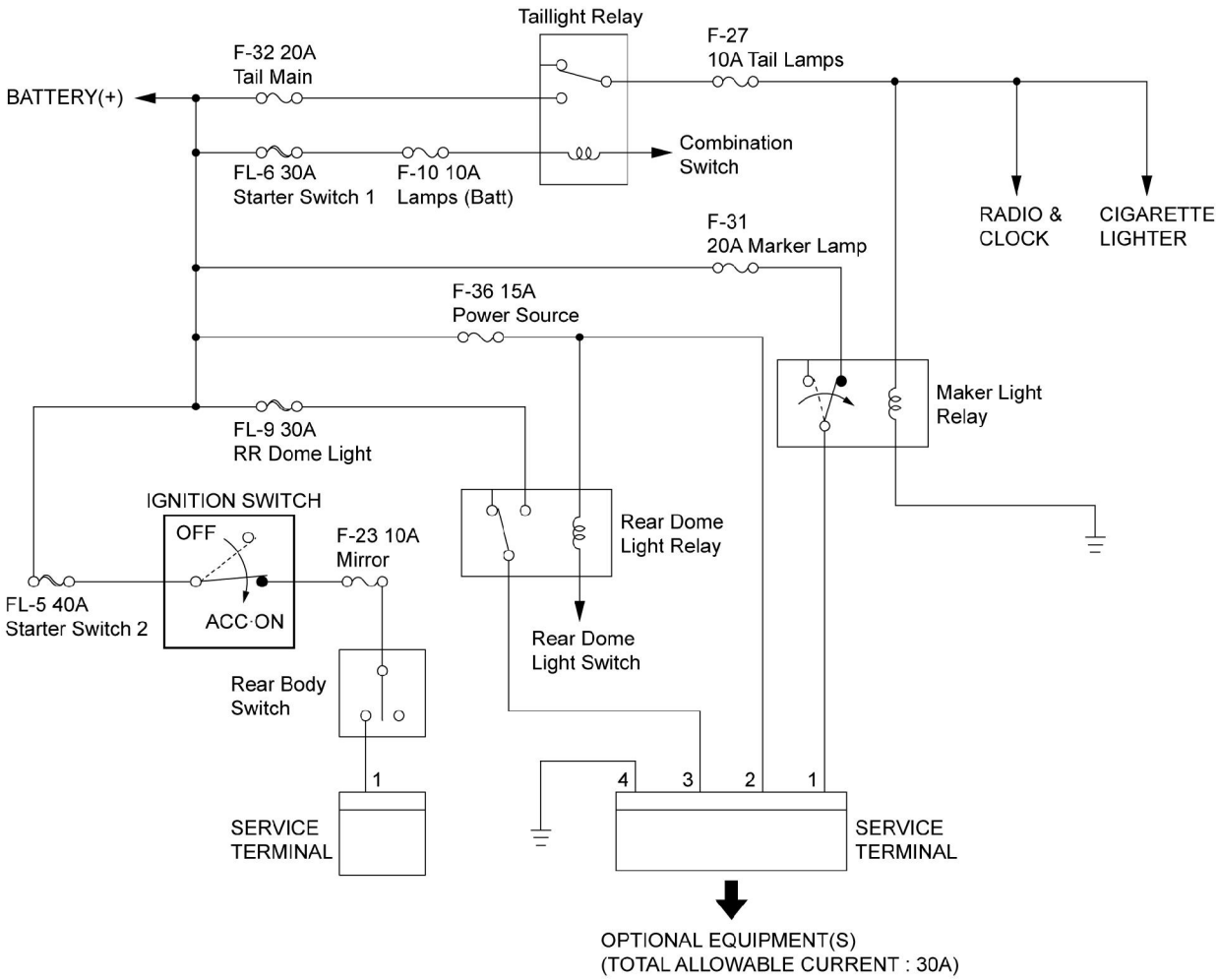

5V
RCT
Sensor
Signal
Engine
Control
Module
(ECM)
39
22
J-131
GRN
0.85
EA500
BLU/
BLK
0.85
EA501
B
J-182
Radiator
Coolant
Temperature
(RCT)
Sensor
A
J-182

Description and Operation

Service Terminal Circuit Description

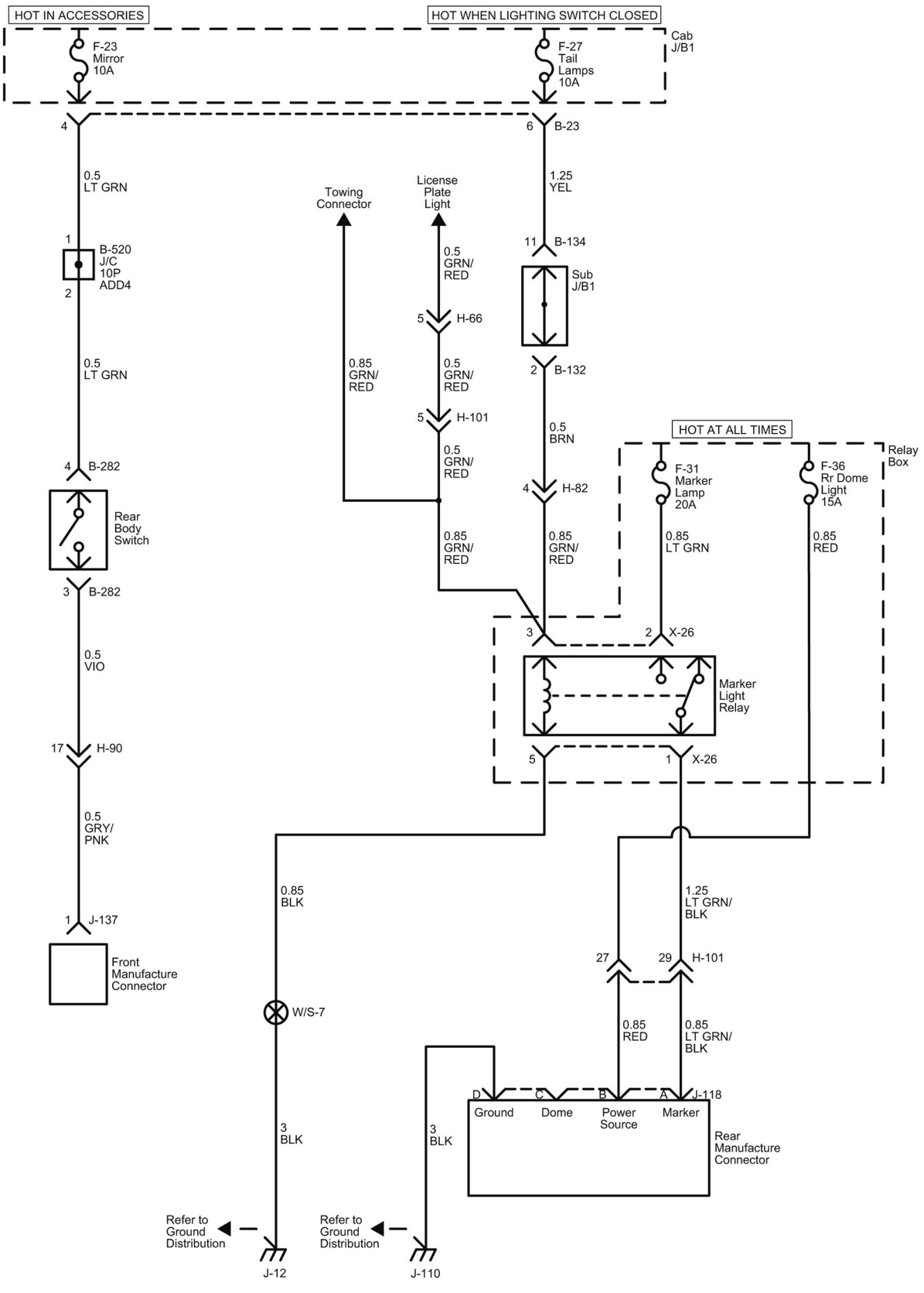
The circuit consists of the maker light relay, and the connector for the service terminal.

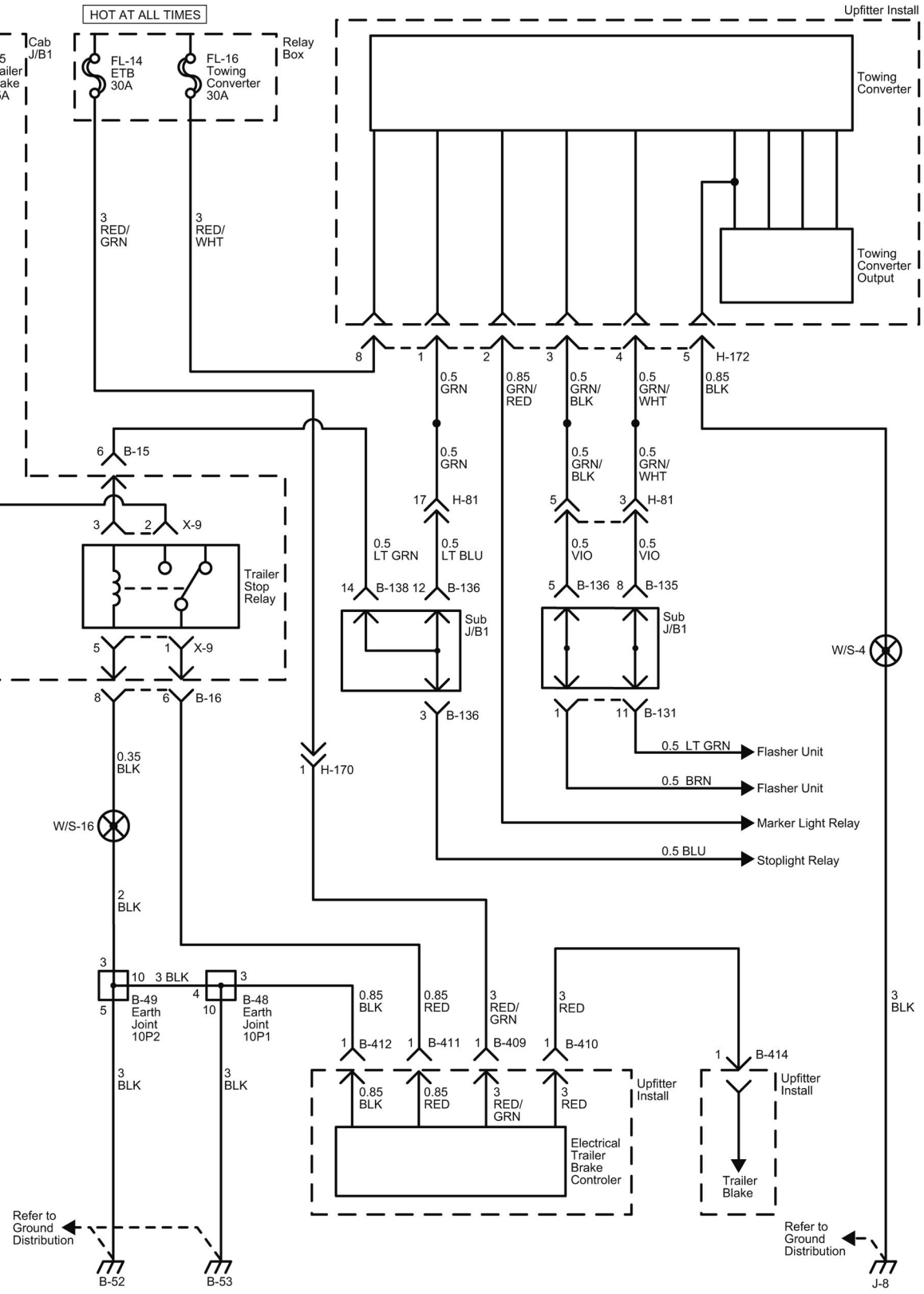
The service terminal connector is provided for Installation of optional equipment (S). This circuit incorporates a 20A fuse. Make sure that the total current of all installed parts does not exceed 20A.



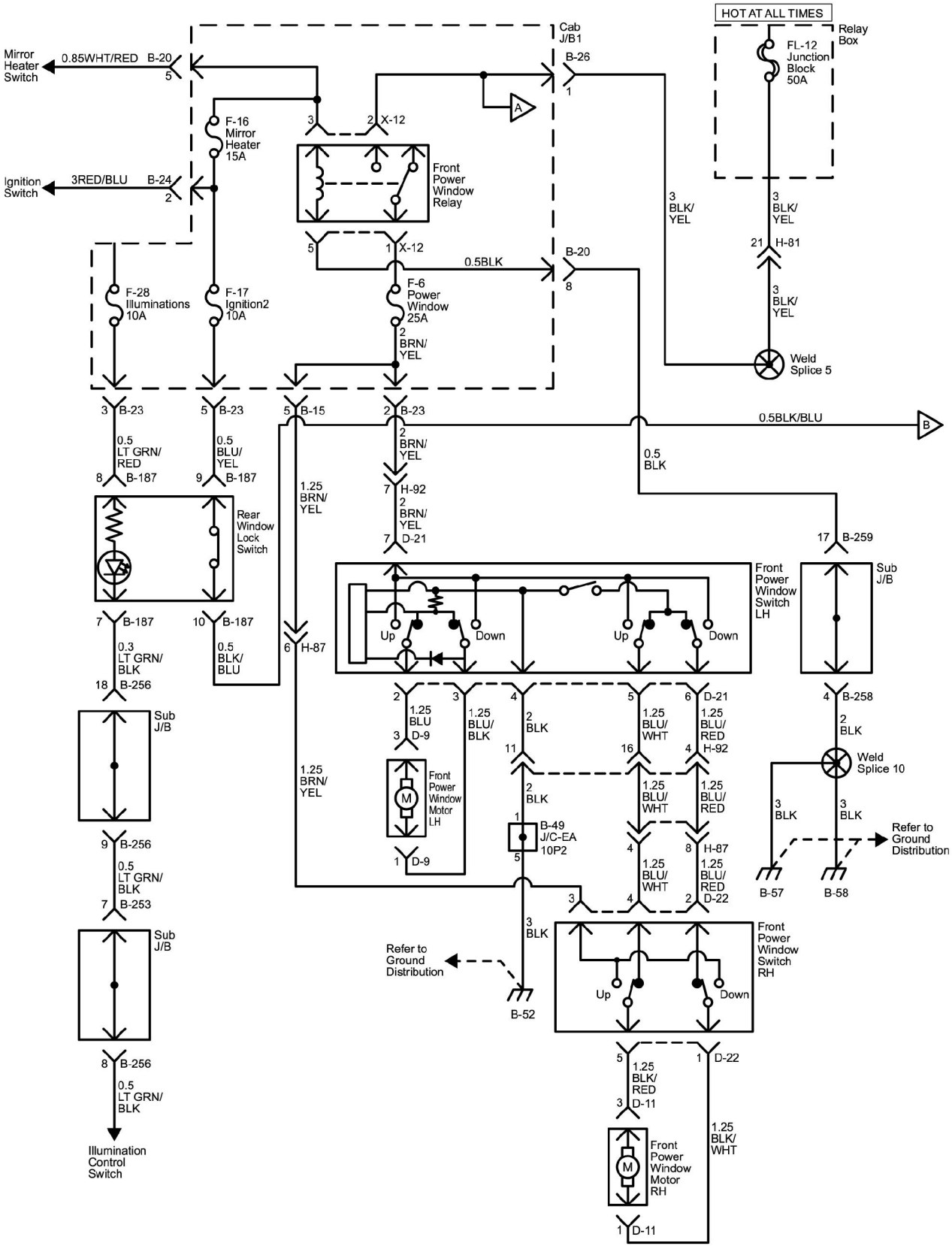
Schematic and Routing Diagrams

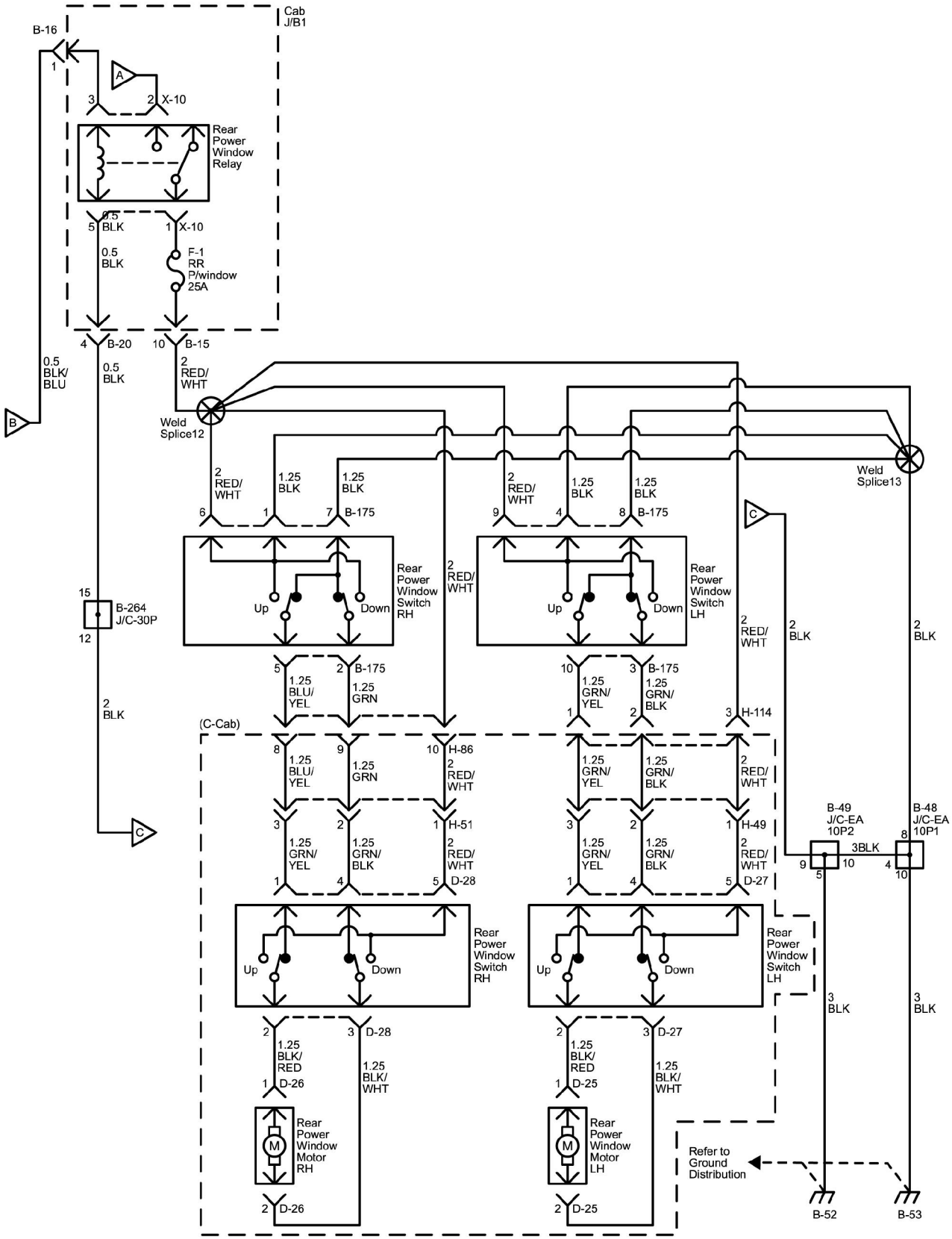
Service Terminal Schematics



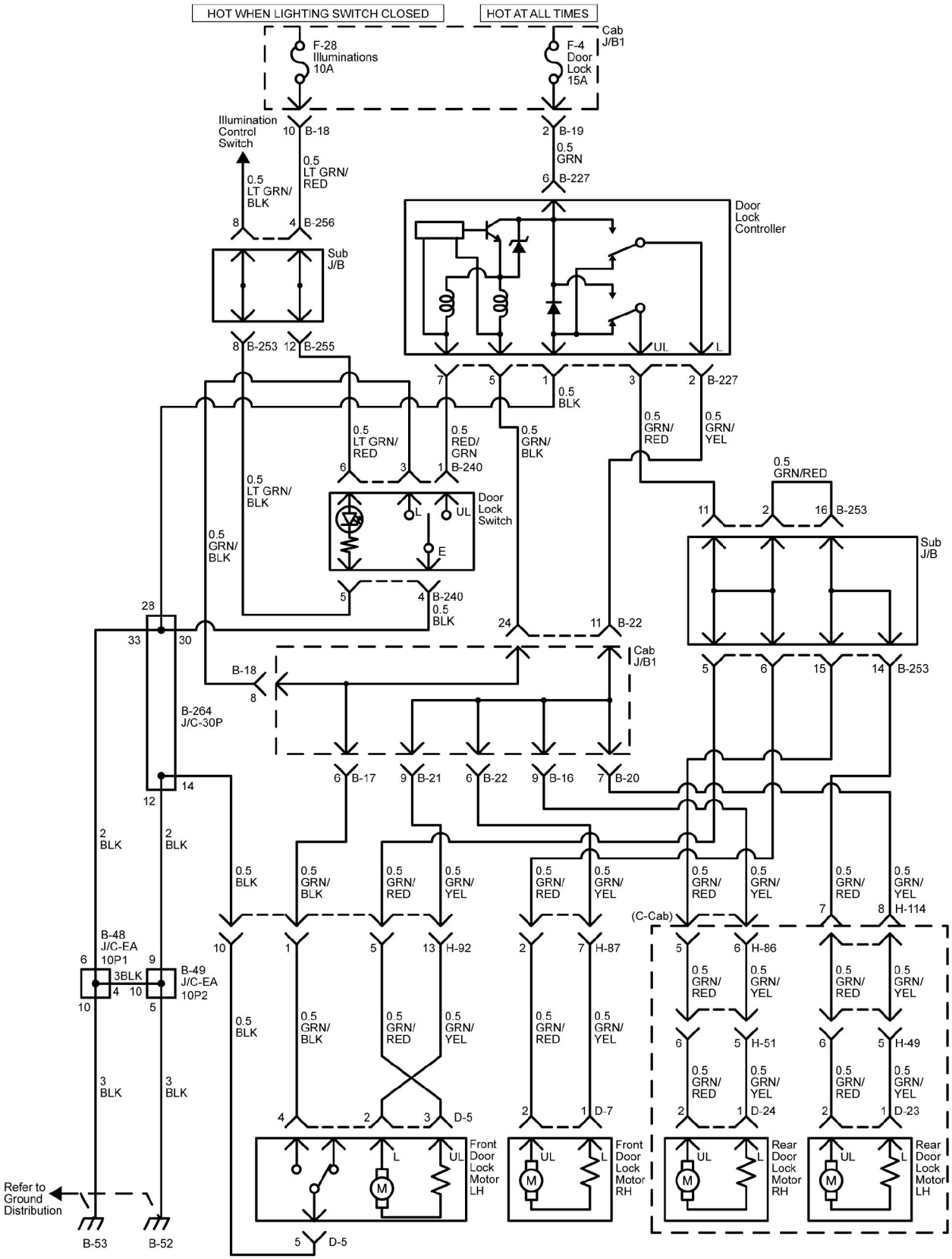

HOT AT ALL TIMES
Cab J/B1
F-5 Trailer Brake 15A
Relay Box
FL-14 ETB 30A
FL-16 Towing Converter 30A
Upfitter Install
Towing Converter
Towing Converter Output
3 RED/ GRN
3 RED/ WHT
8
1
2
3
4
5
H-172
0.5 GRN
0.85 GRN/ RED
0.5 GRN/ BLK
0.5 GRN/ WHT
0.85 BLK
6 B-15
17 H-81
5 H-81
3 H-81
3
2
X-9
0.5 LT GRN
0.5 LT BLU
0.5 VIO
0.5 VIO
14 B-138
12 B-136
5 B-136
8 B-135
Trailer Stop Relay
Sub J/B1
Sub J/B1
W/S-4
5
1
X-9
8
6
B-16
3 B-136
1
11
B-131
0.5 LT GRN
Flasher Unit
0.5 BRN
Flasher Unit
Marker Light Relay
0.5 BLU
Stoplight Relay
0.35 BLK
1 H-170
W/S-16
2 BLK
3
10
3 BLK
3
4
10
5
B-49 Earth Joint 10P2
B-48 Earth Joint 10P1
0.85 BLK
0.85 RED
3 RED/ GRN
3 RED
3 BLK
3 BLK
1 B-412
1 B-411
1 B-409
1 B-410
1 B-414
0.85 BLK
0.85 RED
3 RED/ GRN
3 RED
Upfitter Install
Electrical Trailer Brake Controler
Upfitter Install
Trailer Blake
Refer to Ground Distribution
Refer to Ground Distribution
B-52
B-53
J-8

Power Window Schematics




Cab J/B1
B-16
1
A
3
2 X-10
Rear Power Window Relay
0.5 BLK
5
1 X-10
0.5 BLK
F-1 RR P/window 25A
4 B-20
10 B-15
0.5 BLK/ BLU
0.5 BLK
2 RED/ WHT
B
Weld Splice12
Weld Splice13
2 RED/ WHT
1.25 BLK
1.25 BLK
6
1
7 B-175
9
4
8 B-175
C
Rear Power Window Switch RH
Rear Power Window Switch LH
Up
Down
2 RED/ WHT
2 BLK
15
B-264 J/C-30P
12
5
2 B-175
1.25 BLU/ YEL
1.25 GRN
10
3 B-175
1.25 GRN/ YEL
1.25 GRN/ BLK
1
2
3 H-114
2 BLK
(C-Cab)
8
9
10 H-86
1.25 BLU/ YEL
1.25 GRN
2 RED/ WHT
1.25 GRN/ YEL
1.25 GRN/ BLK
2 RED/ WHT
3
2
1 H-51
1.25 GRN/ YEL
1.25 GRN/ BLK
2 RED/ WHT
1 H-49
1.25 GRN/ YEL
1.25 GRN/ BLK
2 RED/ WHT
1
4
5 D-28
5 D-27
B-49 J/C-EA 10P2
B-48 J/C-EA 10P1
3BLK
9
10
5
8
4
10
Rear Power Window Switch RH
Rear Power Window Switch LH
Up
Down
3 BLK
3 BLK
2
3 D-28
3 D-27
1.25 BLK/ RED
1.25 BLK/ WHT
1 D-26
1 D-25
Rear Power Window Motor RH
Rear Power Window Motor LH
M
Refer to Ground Distribution
2 D-26
2 D-25
B-52
B-53

Power Door Lock Schematics



Backup Alarm System Schematics

