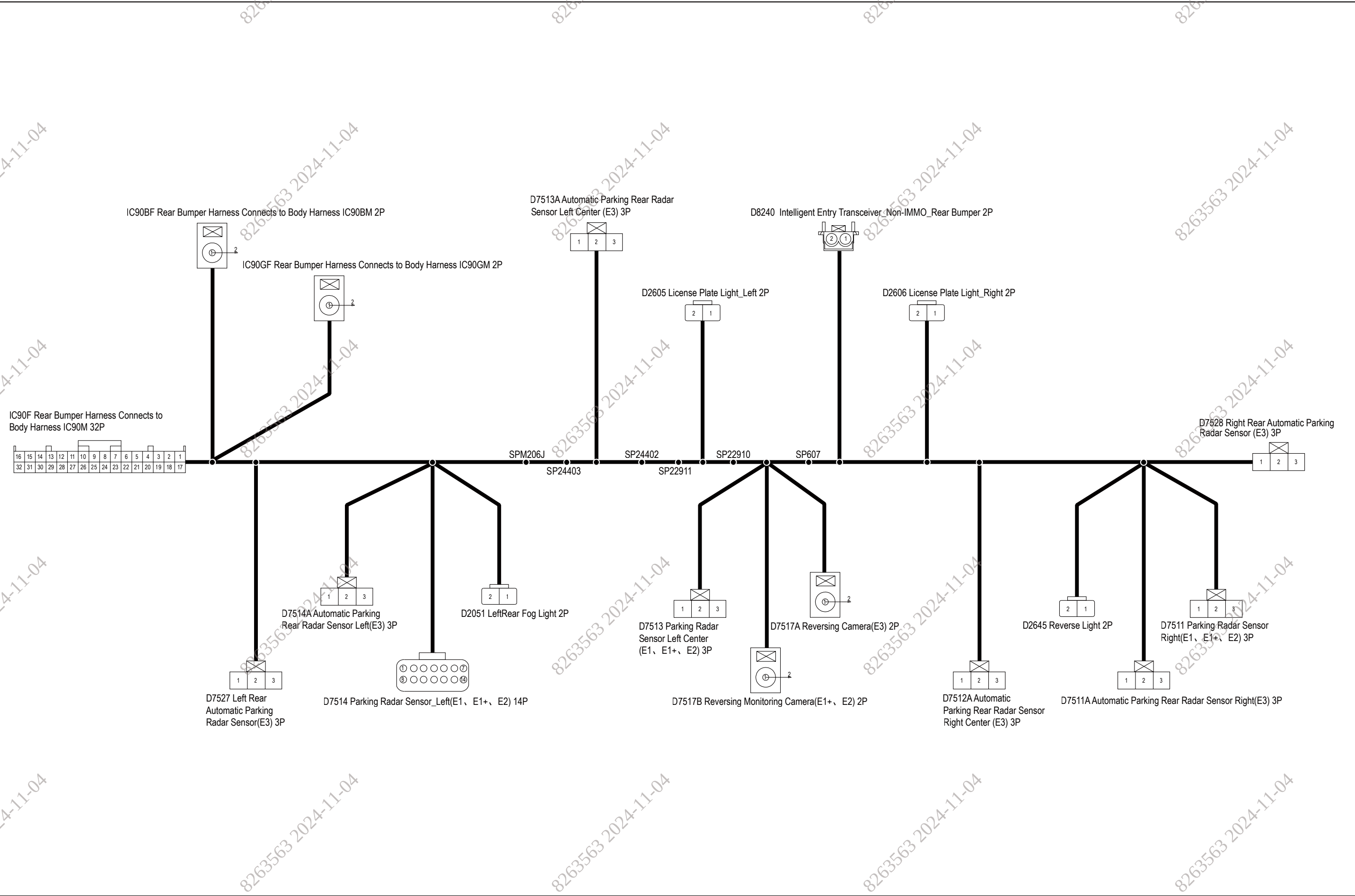


Rear Bumper Harness Structure Diagram



Rear Bumper Harness Electrical Component List

Appliances			
Component Number	Component Name	Number of Pins	Remarks
D2051	Left Rear Fog Light	2P	-
D2605	License Plate Light - Left	2P	-
D2606	License Plate Light - Right	2P	-
D2645	Reversing Light	2P	-
D7517A	Reversing Camera	2P	E3 Configuration
D7517B	Reversing Monitoring Camera	2P	E1+, E2 Configuration
D8240	Intelligent Entry Transceiver_Non-IMMO_Rear Bumper	2P	-

Sensor			
Component Number	Component Name	Number of Pins	Remarks
D7511	Parking Radar Sensor - Right	3P	E1, E1+, E2 Configuration
D7511A	Automatic Parking Rear Radar Sensor Right	3P	E3 Configuration
D7512A	Automatic Parking Rear Radar Sensor Right Center	3P	E3 Configuration
D7513	Parking Radar Sensor - Left Center	3P	E1, E1+, E2 Configuration
D7513A	Automatic Parking Rear Radar Sensor Left Center	3P	E3 Configuration
D7514	Parking Radar Sensor - Left	14P	E1, E1+, E2 Configuration
D7514A	Automatic Parking Rear Radar Sensor Left	3P	E3 Configuration
D7527	Left Rear Automatic Parking Radar Sensor	3P	E3 Configuration
D7528	Right Rear Automatic Parking Radar Sensor	3P	E3 Configuration

Docking Connector			
Component Number	Component Name	Number of Pins	Remarks
IC90BF	Rear Bumper Harness Connects to Body Harness IC90BM	2P	-
IC90F	Rear Bumper Harness Connects to Body Harness IC90M	32P	-
IC90GF	Rear Bumper Harness Connects to Body Harness IC90GM	2P	-

Rear Bumper Harness Terminal Definition

D2051 Left Rear Fog Light

						
Hole Position	Wire Diameter	Wire Color	Connected Pin		Function	Configuration
			Connector Number	Pin Number		
1	0.5	Red	IC90F	13	Power Supply	ALL
2	0.5	Black	SP22911	L	Ground	ALL

D2605 License Plate Light - Left

						
Hole Position	Wire Diameter	Wire Color	Connected Pin		Function	Configuration
			Connector Number	Pin Number		
1	0.35	Black	SP22911	R	Power Supply	ALL
2	0.35	Pink/Black	SP22910	R	Ground	ALL

D2606 License Plate Light - Right

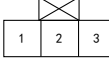
						
Hole Position	Wire Diameter	Wire Color	Connected Pin		Function	Configuration
			Connector Number	Pin Number		
1	0.35	Black	SP22911	R	Power Supply	ALL
2	0.35	Pink/Black	SP22910	L	Ground	ALL

D2645 Reversing Light

Hole Position	Wire Diameter	Wire Color	Connected Pin		Function	Configuration
			Connector Number	Pin Number		
1	0.5	White	IC90F	19	Power Supply	ALL
2	0.5	Black	SP22911	R	Ground	ALL

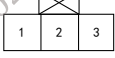
D7511 Parking Radar Sensor - Right

8263563 2024

						
Hole Position	Wire Diameter	Wire Color	Connected Pin		Function	Configuration
			Connector Number	Pin Number		
1	0.35	Red	SP607	L	Power Supply	IPDC01
2	0.35	Pink	D7514	6	Signal	IPDC01
3	0.35	Blue	SPM206J	R	Ground	IPDC01

D7511A Automatic Parking Rear Radar Sensor Right

8263563 2024-11-08

						
Hole Position	Wire Diameter	Wire Color	Connected Pin		Function	Configuration
			Connector Number	Pin Number		
1	0.35	Red	SP24403	R	Power Supply	IPAA01
2	0.35	Pink	IC90F	7	Signal	IPAA01
3	0.35	Blue	SP24402	R	Ground	IPAA01

D7512A Automatic Parking Rear Radar Sensor Right Center

						
Hole Position	Wire Diameter	Wire Color	Connected Pin		Function	Configuration
			Connector Number	Pin Number		
1	0.35	Red	SP24403	R	Power Supply	IAPA01
2	0.35	Yellow	IC90F	8	Signal	IAPA01
3	0.35	Blue	SP24402	R	Ground	IAPA01

D7513 Parking Radar Sensor - Left Center

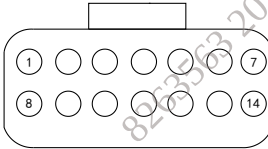
The diagram shows a three-pin terminal block. Pin 1 is on the left, Pin 2 is in the middle, and Pin 3 is on the right. A large 'X' is drawn over the top of the terminal block, indicating that the pins are not to be connected to each other.

Hole Position	Wire Diameter	Wire Color	Connected Pin		Function	Configuration
			Connector Number	Pin Number		
1	0.35	Red	SP607	R	Power Supply	IPDC01
2	0.35	Brown	D7514	13	Signal	IPDC01
3	0.35	Blue	SPM206J	R	Ground	IPDC01

D7513A Automatic Parking Rear Radar Sensor Left Center

Hole Position	Wire Diameter	Wire Color	Connected Pin		Function	Configuration
			Connector Number	Pin Number		
1	0.35	Red	SP24403	L	Power Supply	IAPA01
2	0.35	Brown	IC90F	10	Signal	IAPA01
3	0.35	Blue	SP24402	L	Ground	IAPA01

D7514 Parking Radar Sensor - Left

						
Hole Position	Wire Diameter	Wire Color	Connected Pin		Function	Configuration
			Connector Number	Pin Number		
1	0.5	Red	SP607	L	SEN-POWER	IPDC01
2	-	-	-	-	-	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-
5	-	-	-	-	-	-
6	0.35	Pink	D7511	2	RR Rear Right Channel	IPDC01
7	0.35	Blue	IC90F	1	CAN_H	IPDC01
8	0.35	Red/White	IC90F	5	Power Supply	IPDC01
9	0.35	Black	SPM206J	L	Ground	IPDC01
10	-	-	-	-	-	-
11	-	-	-	-	-	-
12	-	-	-	-	-	-
13	0.35	Brown	D7513	2	RM Rear Center Channel	IPDC01
14	0.35	Pink	IC90F	11	CAN_L	IPDC01

D7514A Automatic Parking Rear Radar Sensor Left

Hole Position	Wire Diameter	Wire Color	Connected Pin		Function	Configuration
			Connector Number	Pin Number		
1	0.35	Red	SP24403	R	Power Supply	IAPA01
2	0.35	Pink	IC90F	9	Signal	IAPA01
3	0.35	Blue	SP24402	L	Ground	IAPA01

D7517A Reversing Camera

82635

Hole Position	Wire Diameter	Wire Color	Connected Pin		Function	Configuration
			Connector Number	Pin Number		
1	0.5	Red/Black	IC90BF	1	Signal	IAVW01
2	0.5	Gray	IC90BF	2	Ground	IAVW01

D7517B Reversing Camera

Hole Position	Wire Diameter	Wire Color	Connected Pin		Function	Configuration
			Connector Number	Pin Number		
1	0.5	Black/White	IC90GF	1	Signal	IRVC01
2	0.5	Black/Blue	IC90GF	2	Ground	IRVC01

D7527 Left Rear Automatic Parking Radar Sensor

Hole Position	Wire Diameter	Wire Color	Connected Pin		Function	Configuration
			Connector Number	Pin Number		
1	0.35	Red	SP24403	L	Power Supply	IAPA01
2	0.35	Brown	IC90F	3	Signal	IAPA01
3	0.35	Blue	SP24402	L	Ground	IAPA01

D7528 Right Rear Automatic Parking Radar Sensor

Hole Position	Wire Diameter	Wire Color	Connected Pin		Function	Configuration
			Connector Number	Pin Number		
1	0.35	Red	SP24403	R	Power Supply	IAPA01
2	0.35	Brown	IC90F	2	Signal	IAPA01
3	0.35	Blue	SP24402	R	Ground	IAPA01

D8240 Intelligent Entry Transceiver_Non-IMMO_Rear Bumper

						
Hole Position	Wire Diameter	Wire Color	Connected Pin		Function	Configuration
			Connector Number	Pin Number		
1	0.35	Green/White	IC90F	24	Power Supply	NKLE01
2	0.35	Brown/Blue	IC90F	23	Ground	NKLE01

IC90BF Rear Bumper Harness Connects to Body Harness IC90BM

Hole Position	Wire Diameter	Wire Color	Connected Pin		Configuration
			Connector Number	Pin Number	
1	0.5	Red/Black	D7517A	1	IAVW01
2	0.5	Gray	D7517A	2	IAVW01

IC90GF Rear Bumper Harness Connects to Body Harness IC90GM

2024-11-15

					
Hole Position	Wire Diameter	Wire Color	Connected Pin		Configuration
			Connector Number	Pin Number	
1	0.5	Black/White	D7517B	1	IRVC01
2	0.5	Black/Blue	D7517B	2	IRVC01

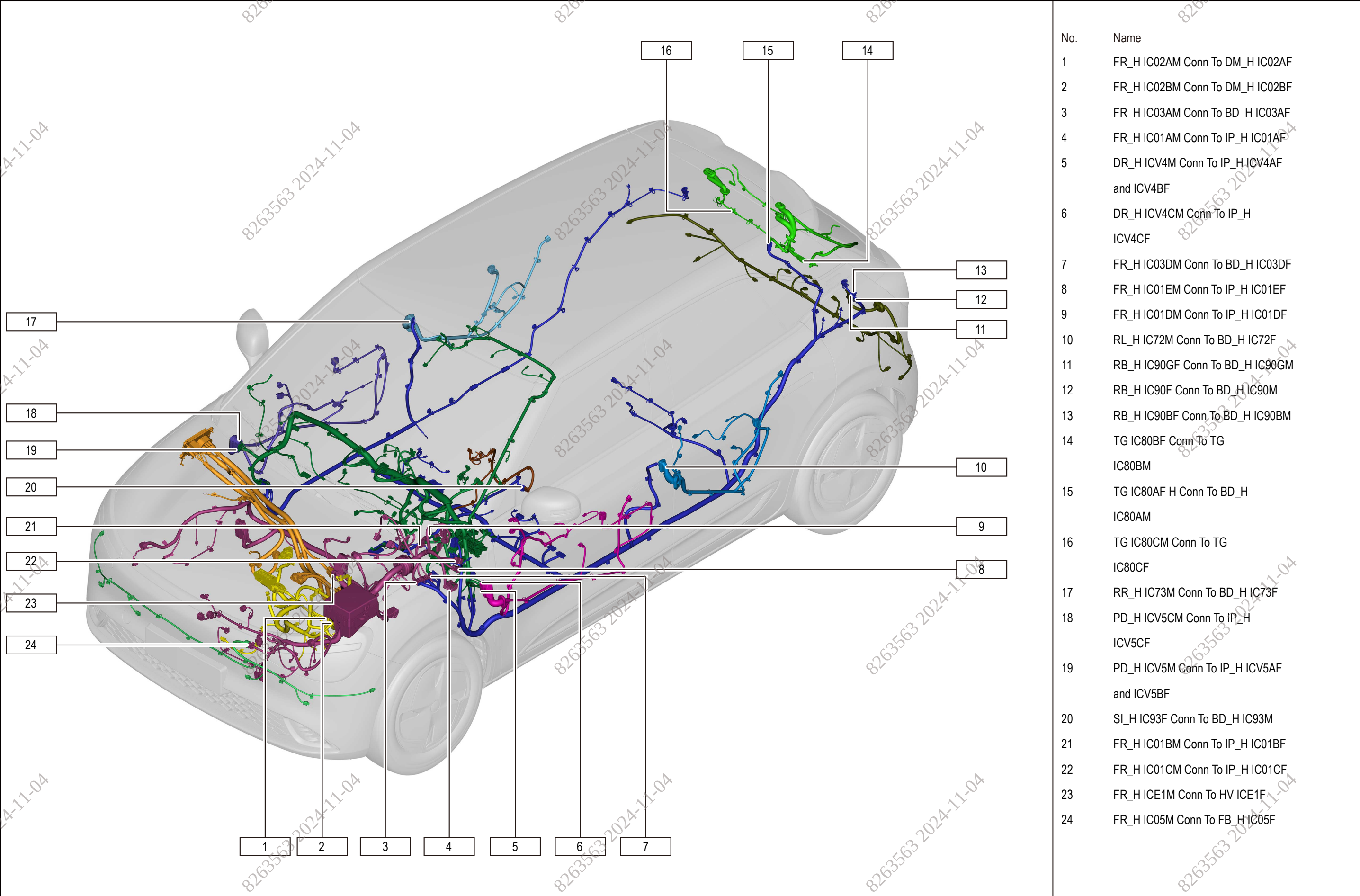
IC90F Rear Bumper Harness Connects to Body Harness IC90M

Hole Position	Wire Diameter	Wire Color	Connected Pin		Configuration											
			Connector Number	Pin Number												
1	0.35	Blue	D7514	7	IPDC01											
2	0.35	Brown	D7528	2	IAPA01											
3	0.35	Brown	D7527	2	IAPA01											
4	-	-	-	-	-											
5	0.35	Red/White	D7514	8	IPDC01											
5	0.5	Red	SP24403	L	IAPA01											
6	-	-	-	-	-											
7	0.35	Pink	D7511A	2	IAPA01											
8	0.35	Yellow	D7512A	2	IAPA01											
9	0.35	Pink	D7514A	2	IAPA01											
10	0.35	Brown	D7513A	2	IAPA01											
11	0.35	Blue	SP24402	L	IAPA01											
12	0.35	Pink/Black	SP22910	L	ALL											
13	0.5	Red	D2051	1	ALL											
14	0.5	Black	SPM206J	L	IPDC01											
15	-	-	-	-	-											
16	0.5	Black	SP22911	L	ALL											
17	0.35	Pink	D7514	14	IPDC01											
18	-	-	-	-	-											
19	0.5	White	D2645	1	ALL											
20	-	-	-	-	-											
21	-	-	-	-	-											
22	-	-	-	-	-											
23	0.35	Brown/Blue	D8240	2	NKLE01											
24	0.35	Green/White	D8240	1	NKLE01											
25	-	-	-	-	-											
26	-	-	-	-	-											
27	-	-	-	-	-											
28	-	-	-	-	-											
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31	-	-	-	-	-											
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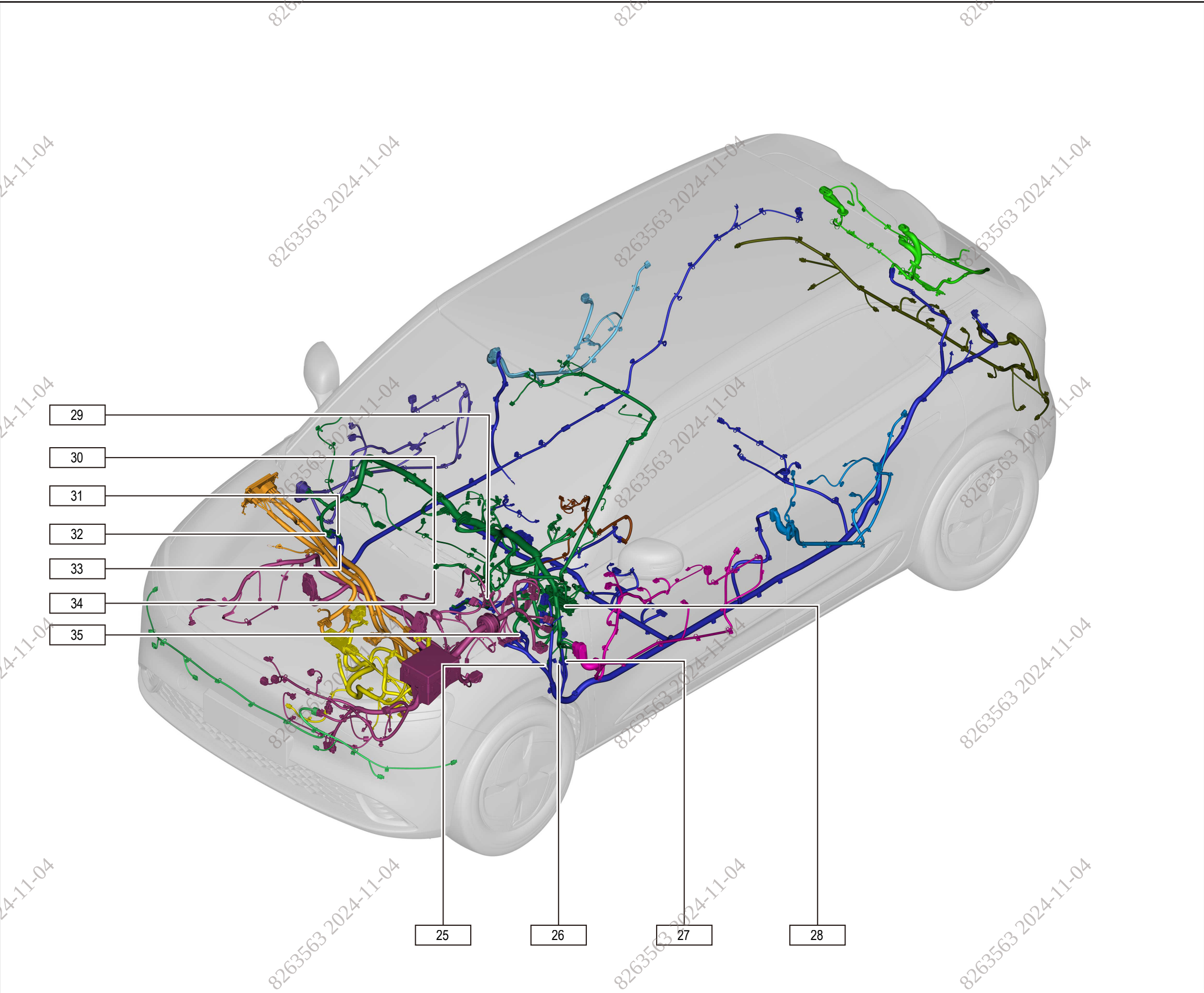
Rear Bumper Harness Splice Point List

Splice Point	Hole Position	Wire Diameter	Wire Color	Connected Pin	Configuration
SPM206J	L	0.35	Black	D7514	9
	L	0.5	Black	IC90F	14
	R	0.35	Blue	D7513	3
	R	0.35	Blue	D7511	3
SP24403	L	0.35	Red	D7513A	1
	L	0.35	Red	D7527	1
	L	0.5	Red	IC90F	5
	R	0.35	Red	D7514A	1
	R	0.35	Red	D7512A	1
	R	0.35	Red	D7511A	1
	R	0.35	Red	D7528	1
	R	0.35	Blue	D7514A	3
SP24402	L	0.35	Blue	D7513A	3
	L	0.35	Blue	D7527	3
	L	0.35	Blue	IC90F	11
	R	0.35	Blue	D7512A	3
	R	0.35	Blue	D7511A	3
SP22911	R	0.35	Blue	D7528	3
	L	0.5	Black	D2051	2
	L	0.5	Black	IC90F	16
	R	0.5	Black	D2645	2
	R	0.35	Black	D2605	1
	R	0.35	Black	D2606	1
SP22910	L	0.35	Pink/Black	IC90F	12
	L	0.35	Pink/Black	D2605	2
	R	0.35	Pink/Black	D2605	2
SP607	L	0.35	Red	D7511	1
	L	0.5	Red	D7514	1

Layout Diagram

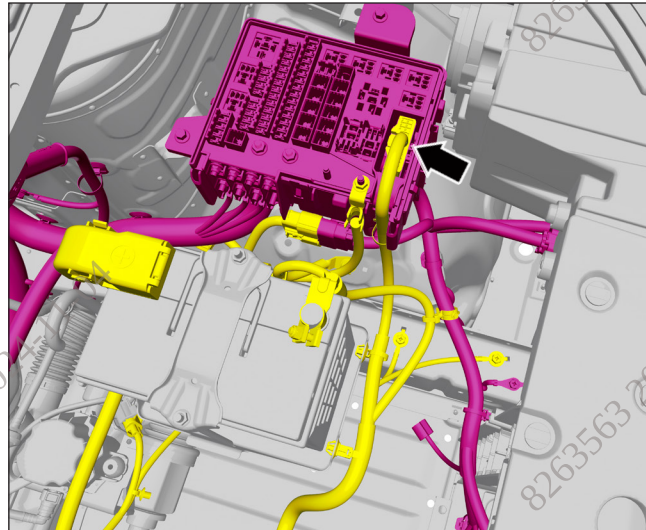


Layout Diagram

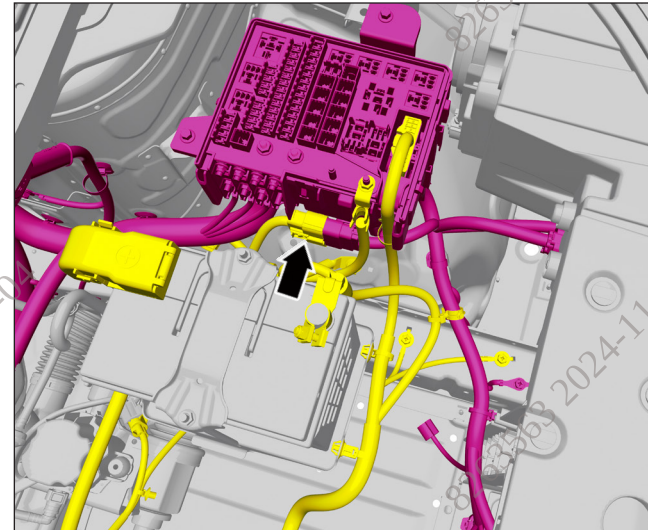


No.	Name
25	IP_H IC92DF Conn To BD_H IC92DM
26	IP_H IC92EF Conn To BD_H IC92EM
27	IP_H IC92HF Conn To BD_H IC92HM
28	IP_H IC92BM Conn To BD_H IC92BF
29	IP_H IC60B Conn To AC_H
30	IP_H IC60C Conn To AC_H
31	IP_H IC92GF Conn To BD_H IC92GM
32	IP_H IC91F Conn To BD_H IC91M
33	IP_H IC91BF Conn To BD_H IC91BM
34	IP_H IC60A Conn To AC_H
35	IP_H IC92AF Conn To BD_H IC92AM

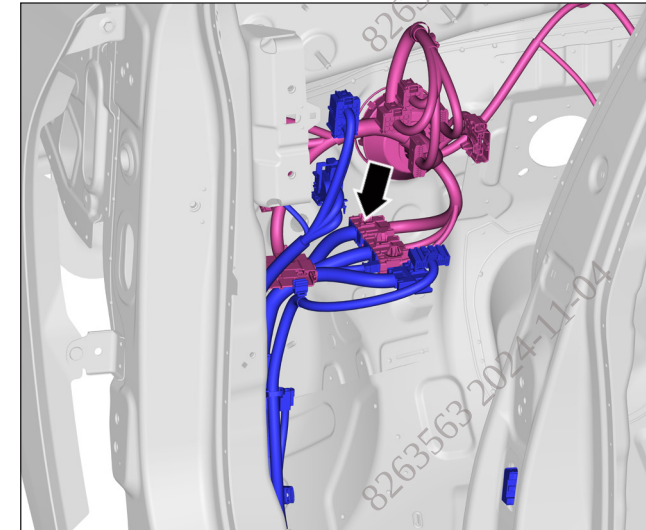
Position Diagrams



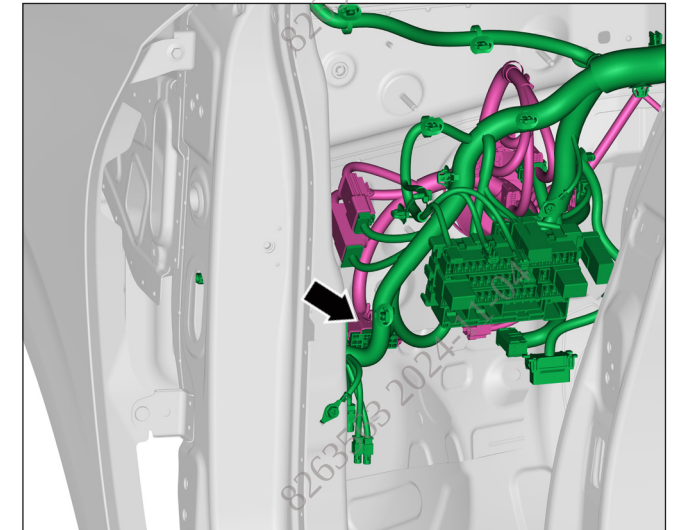
Front Harness IC02AM Connects to Drive Motor Harness IC02AF



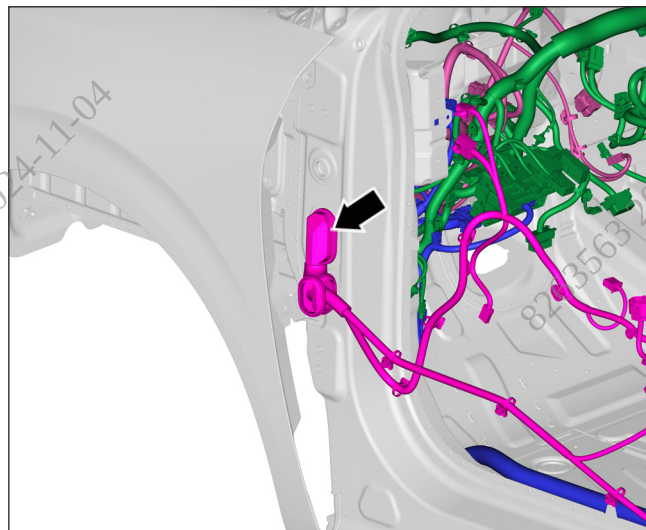
Front Harness IC02BM Connects to Drive Motor Harness IC02BF



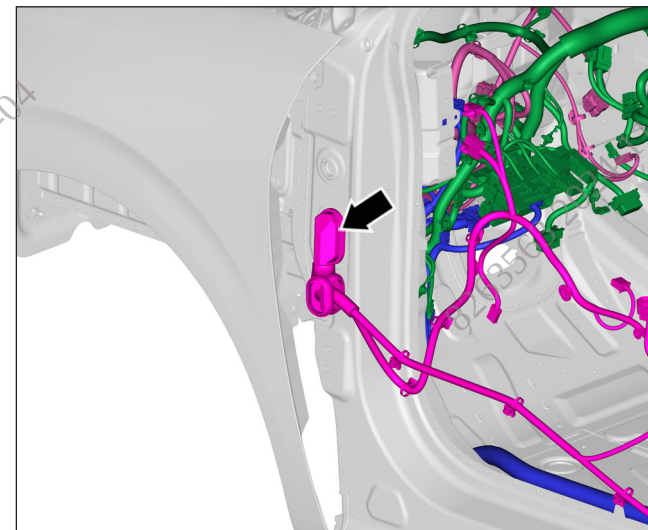
Front Harness IC03AM Connects to Body Harness IC03AF



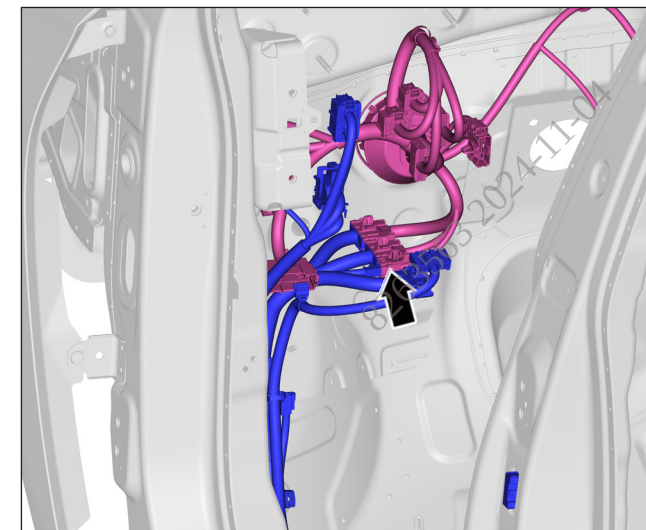
Front Harness IC01AM Connects to Instrument Panel Harness IC01AF



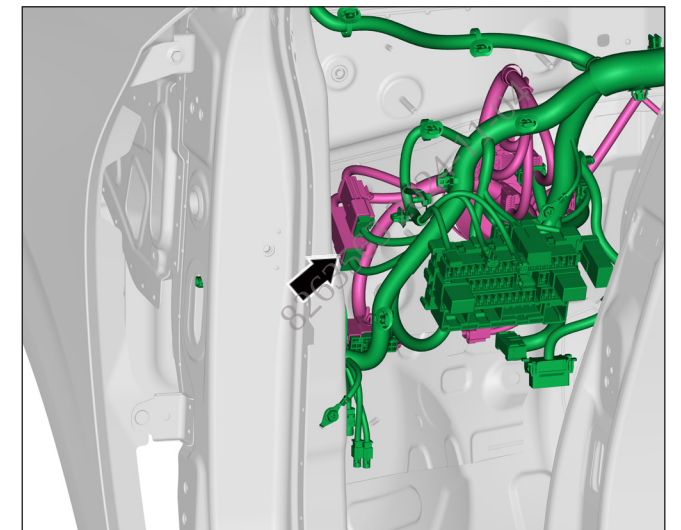
Left Front Door Harness ICV4M Connects to Instrument Panel Harness ICV4AF and ICV4BF



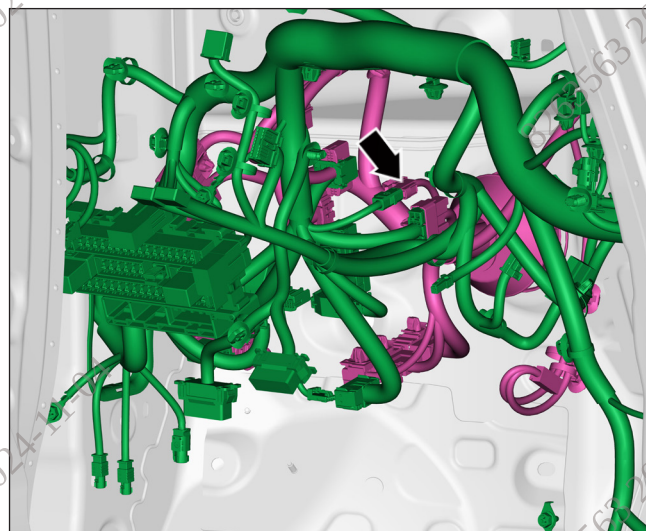
Left Front Door Harness ICV4CM Connects to Instrument Panel Harness ICV4CF



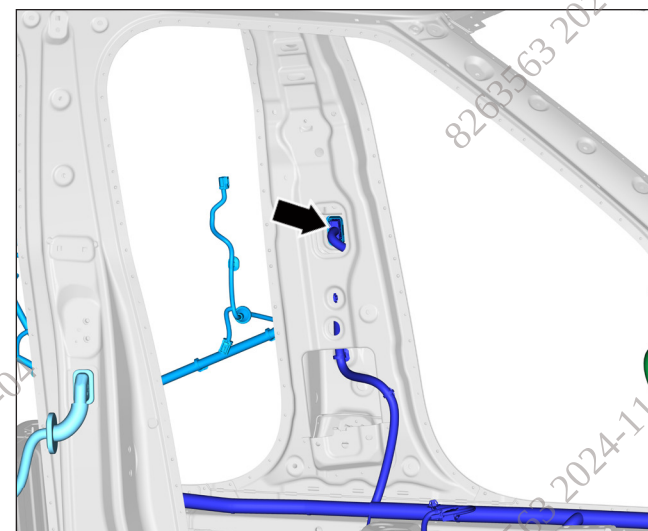
Front Harness IC03DM Connects to Body Harness IC03DF



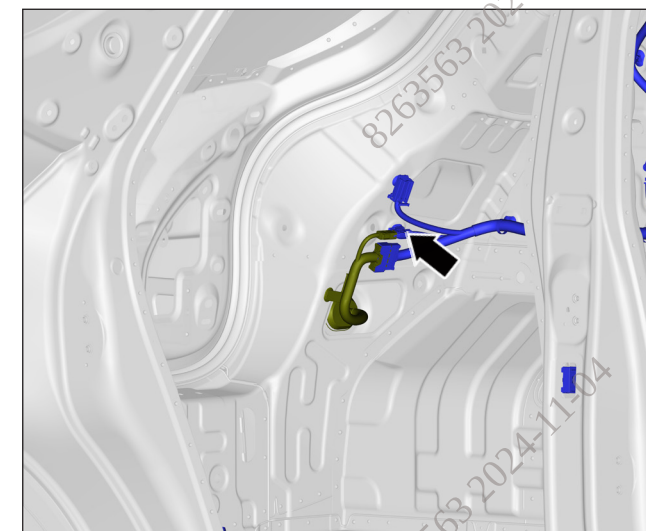
Front Harness IC01EM Connects to Instrument Panel Harness IC01EF



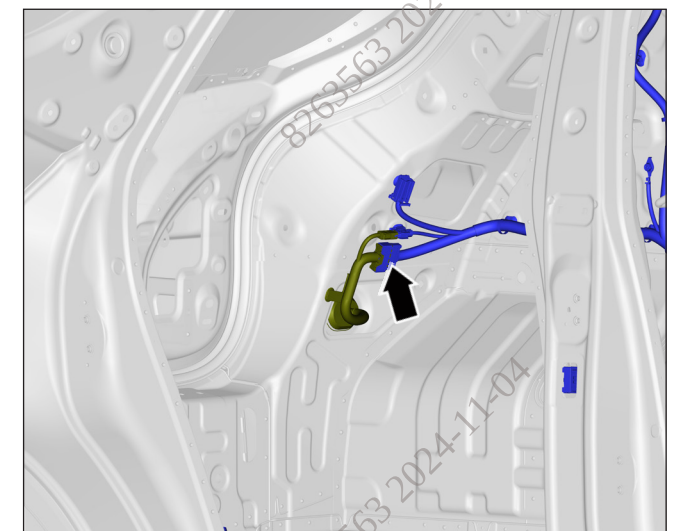
Front Harness IC01DM Connects to Instrument Panel Harness IC01DF



Left Rear Door Harness IC72M Connects to Body Harness IC72F



Rear Bumper Harness IC90GF Connects to Body Harness IC90GM

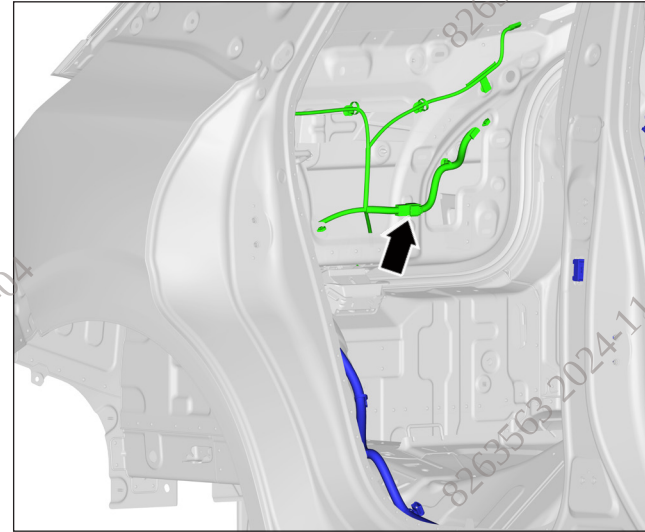


Rear Bumper Harness IC90F Connects to Body Harness IC90M

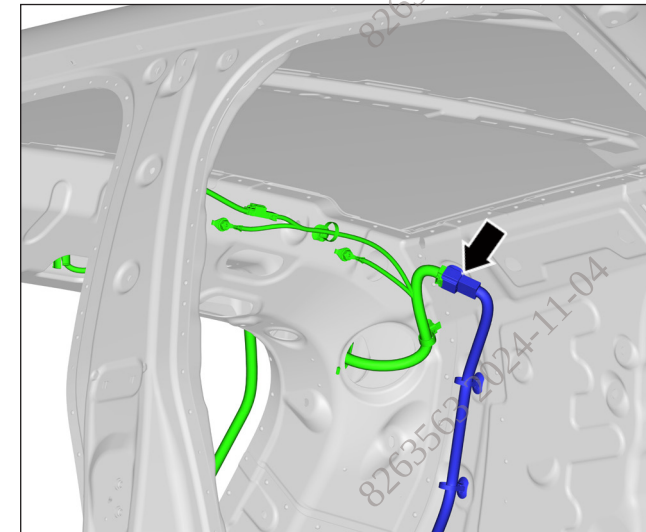
Position Diagrams



Rear Bumper Harness IC90BF Connects to Body Harness IC90BM



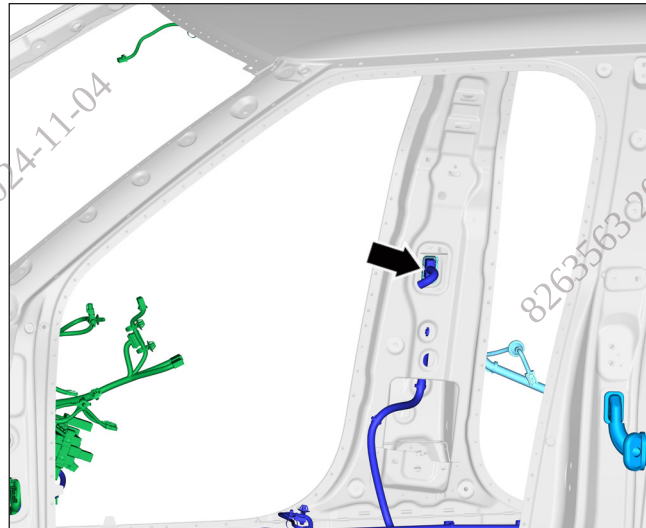
Tailgate Auxiliary Harness IC80BF Connects to Tailgate Harness IC80BM



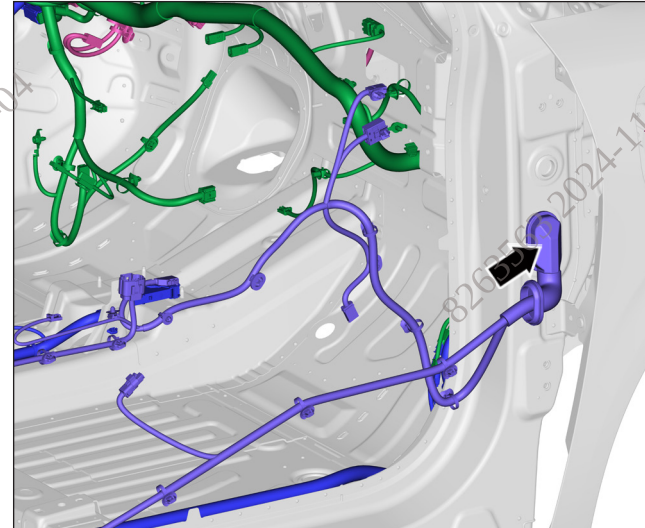
Tailgate Auxiliary Harness IC80AF Connects to Body Harness IC80AM



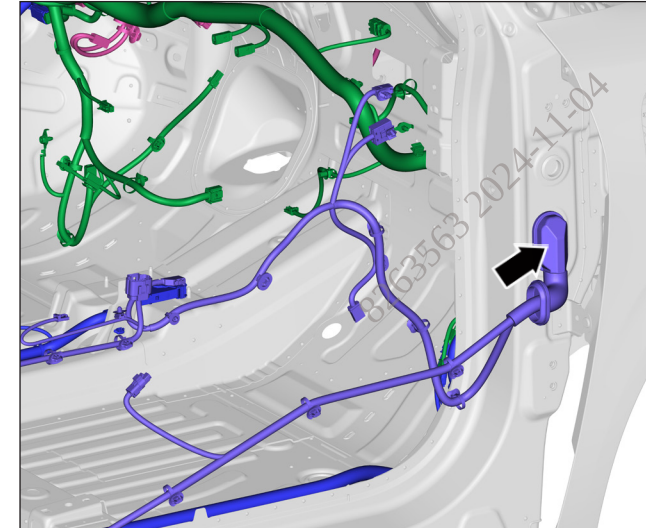
Tailgate Auxiliary Harness IC80CM Connects to High-Mounted Stop Light Harness IC80CF



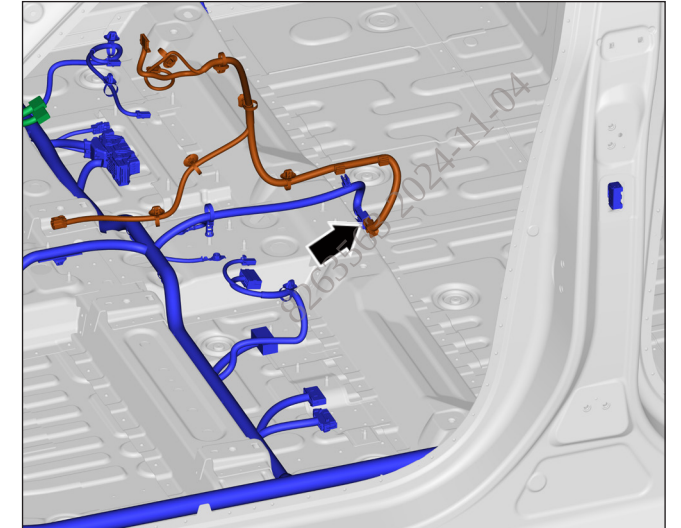
Right Rear Door Harness IC73M Connects to Body Harness IC73F



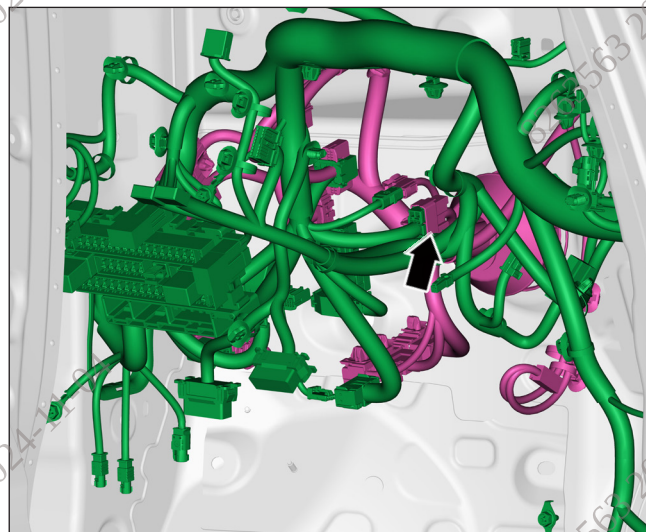
Right Front Door Harness ICV5CM Connects to Instrument Panel Harness ICV5CF



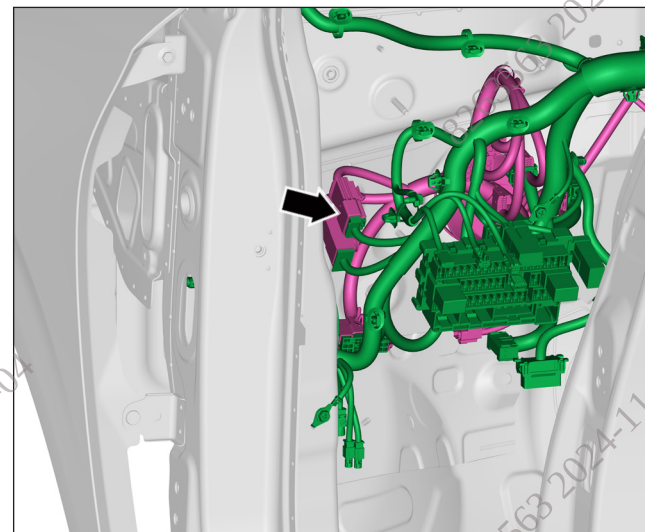
Right Front Door Harness ICV5M Connects to Instrument Panel Harness ICV5AF and ICV5BF



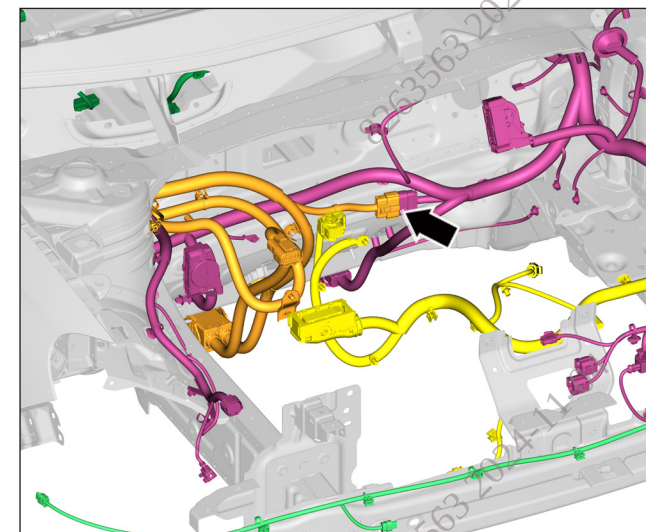
Sub-Instrument Panel Harness IC93F Connects to Body Harness IC93M



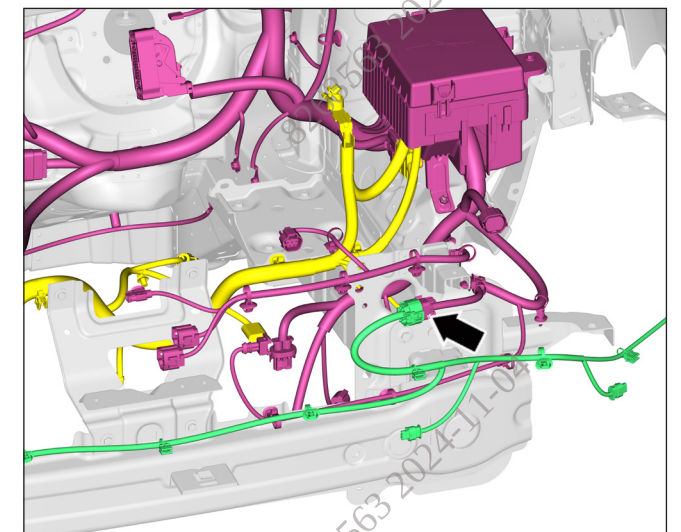
Front Harness IC01BM Connects to Instrument Panel Harness IC01BF



Front Harness IC01CM Connects to Instrument Panel Harness IC01CF

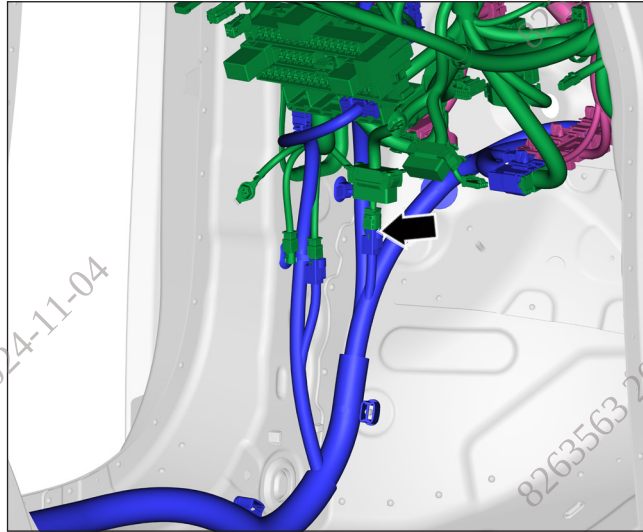


Front Harness ICE1M Connects to AC/DC Charging Cable ICE1F

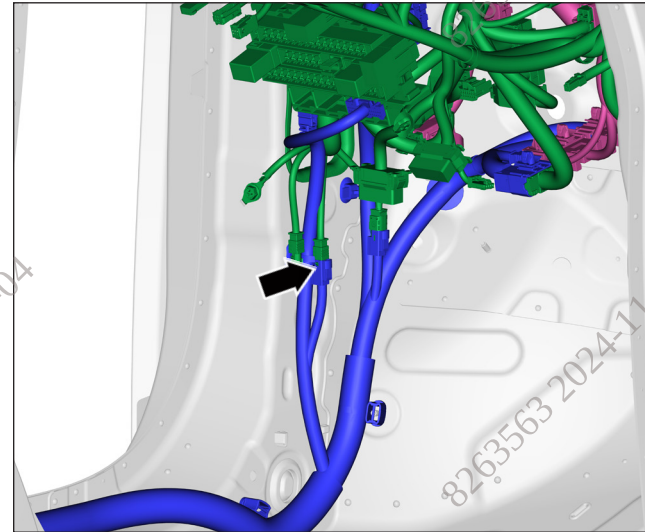


Front Harness IC05M Connects to Front Bumper Harness IC05F

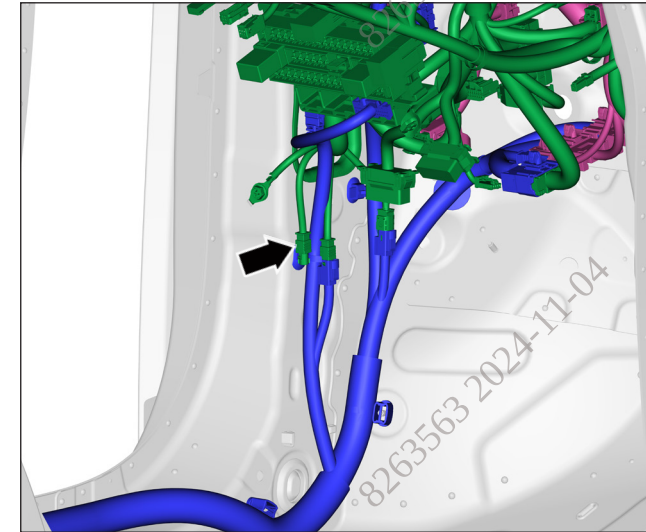
Position Diagrams



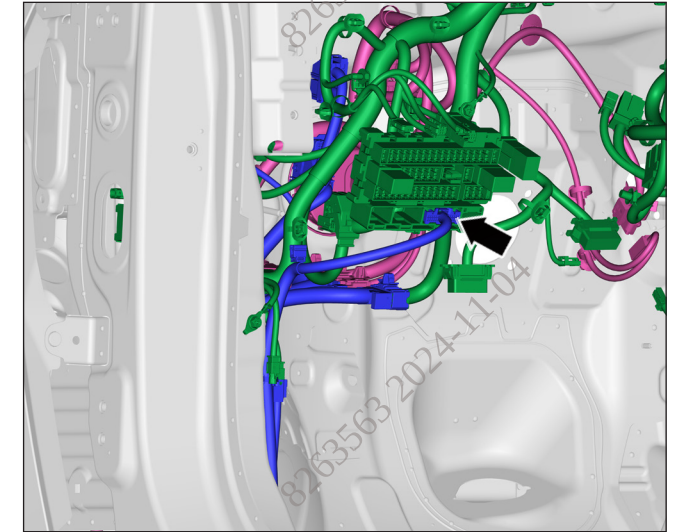
Instrument Panel Harness IC92DF Connects to Body Harness IC92DM



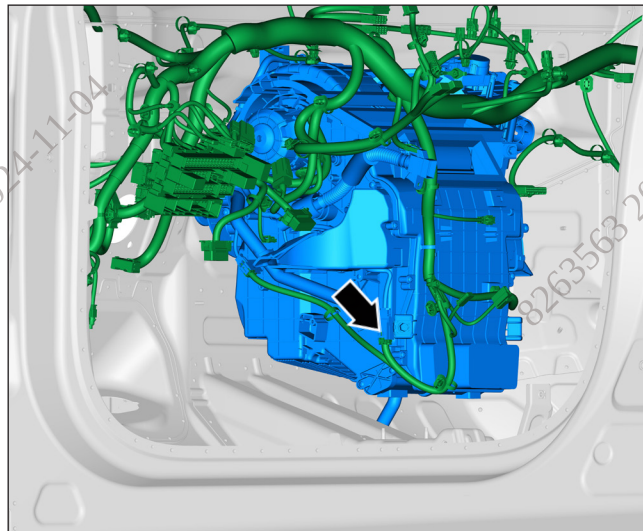
Instrument Panel Harness IC92EF Connects to Body Harness IC92EM



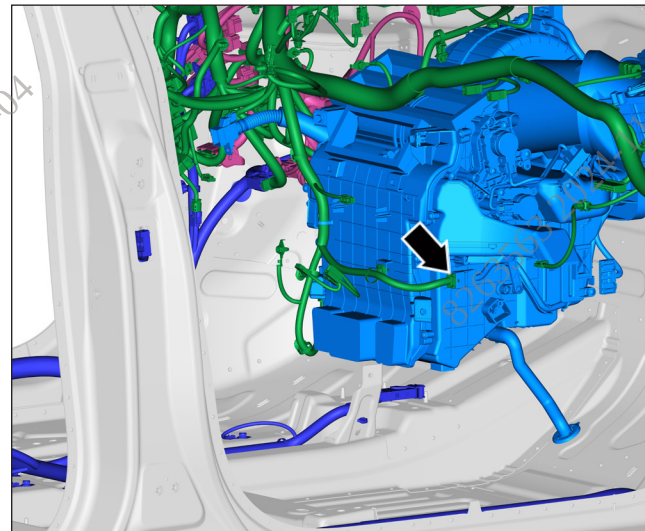
Instrument Panel Harness IC92HF Connects to Body Harness IC92HM



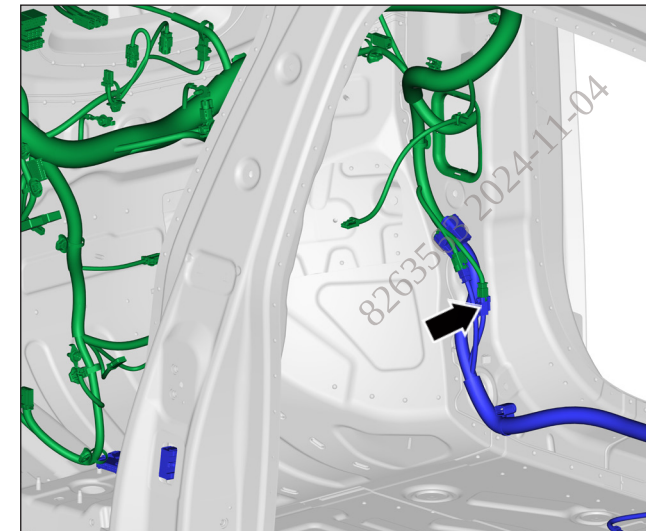
Instrument Panel Harness IC92BM Connects to Body Harness IC92BF



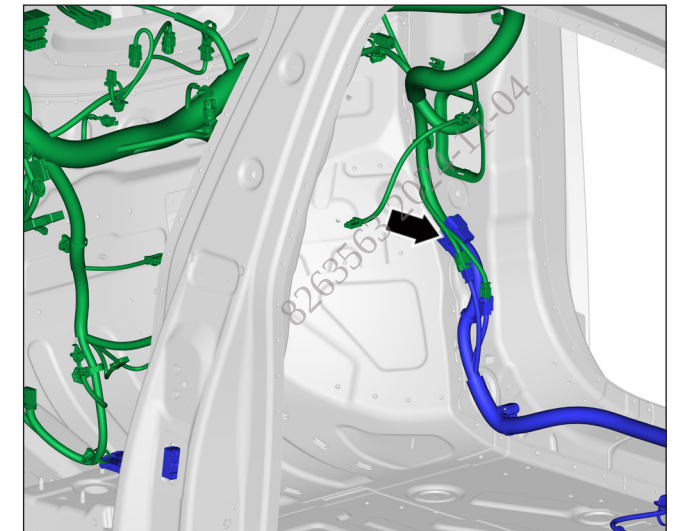
Instrument Panel Harness IC60B Connects to Air Conditioning Harness



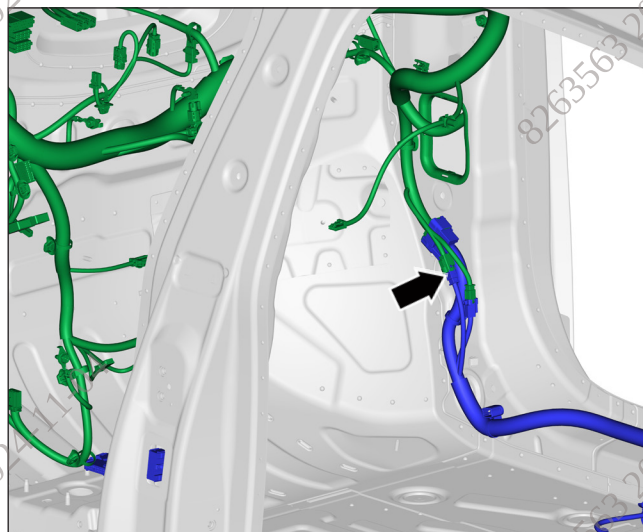
Instrument Panel Harness IC60C Connects to Air Conditioning Harness



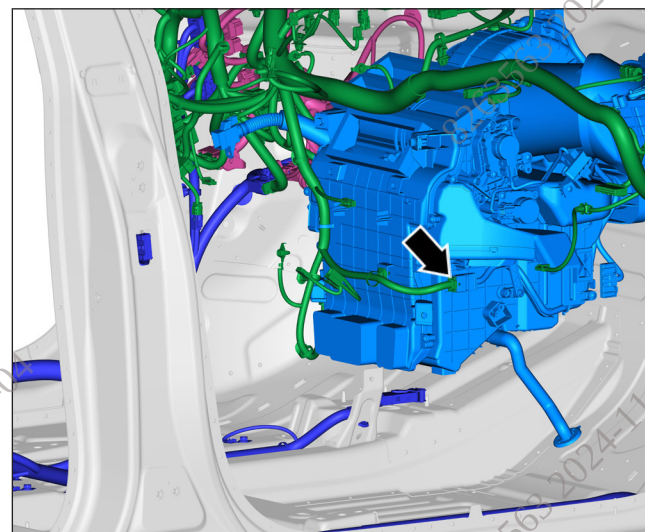
Instrument Panel Harness IC92GF Connects to Body Harness IC92GM



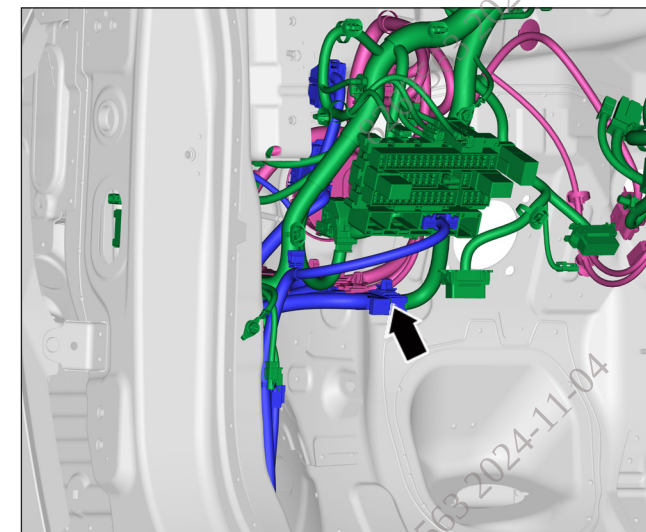
Instrument Panel Harness IC91F Connects to Body Harness IC91M



Instrument Panel Harness IC91BF Connects to Body Harness IC91BM



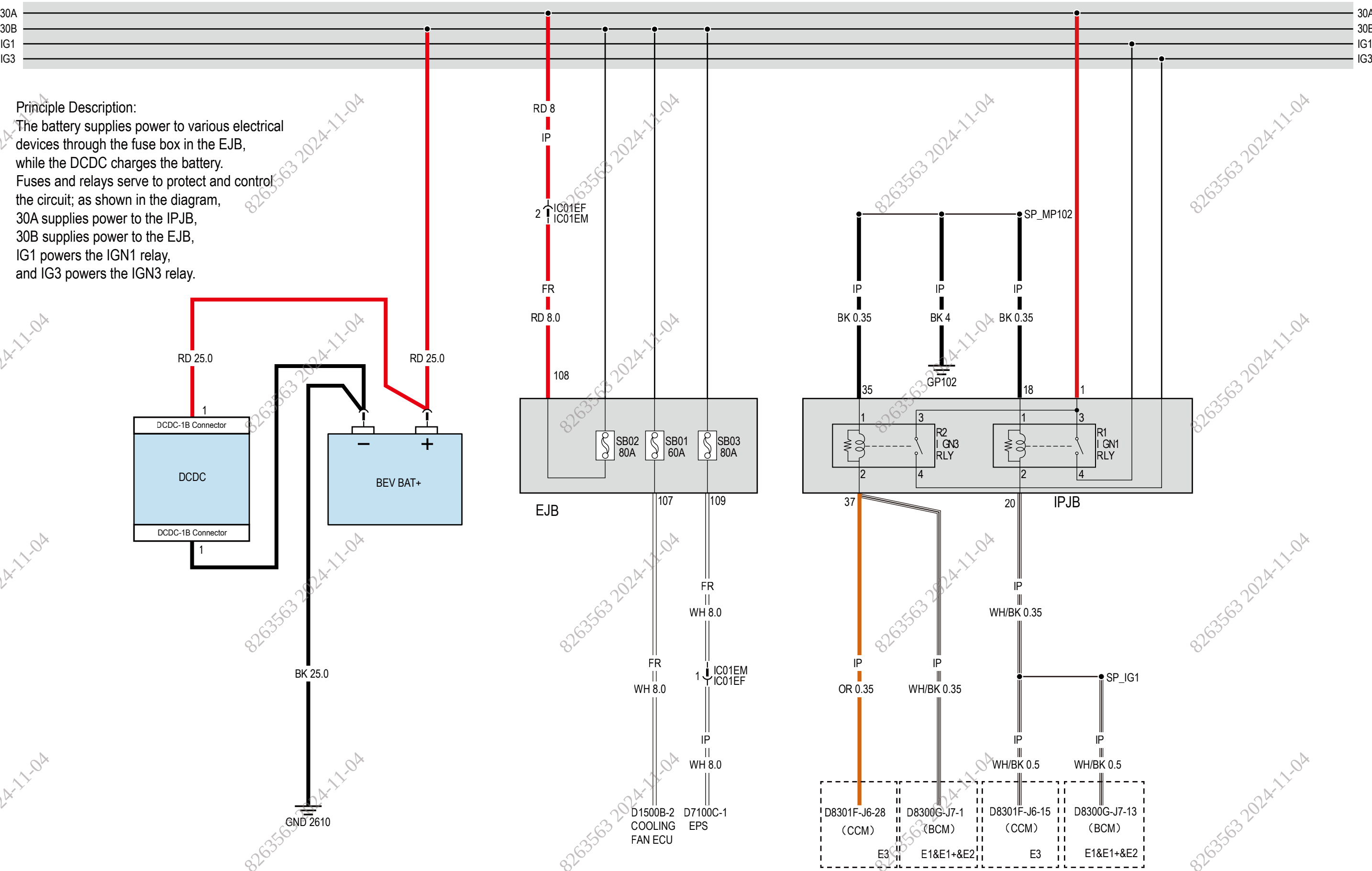
Instrument Panel Harness IC60A Connects to Air Conditioning Harness



Instrument Panel Harness IC92AF Connects to Body Harness IC92AM

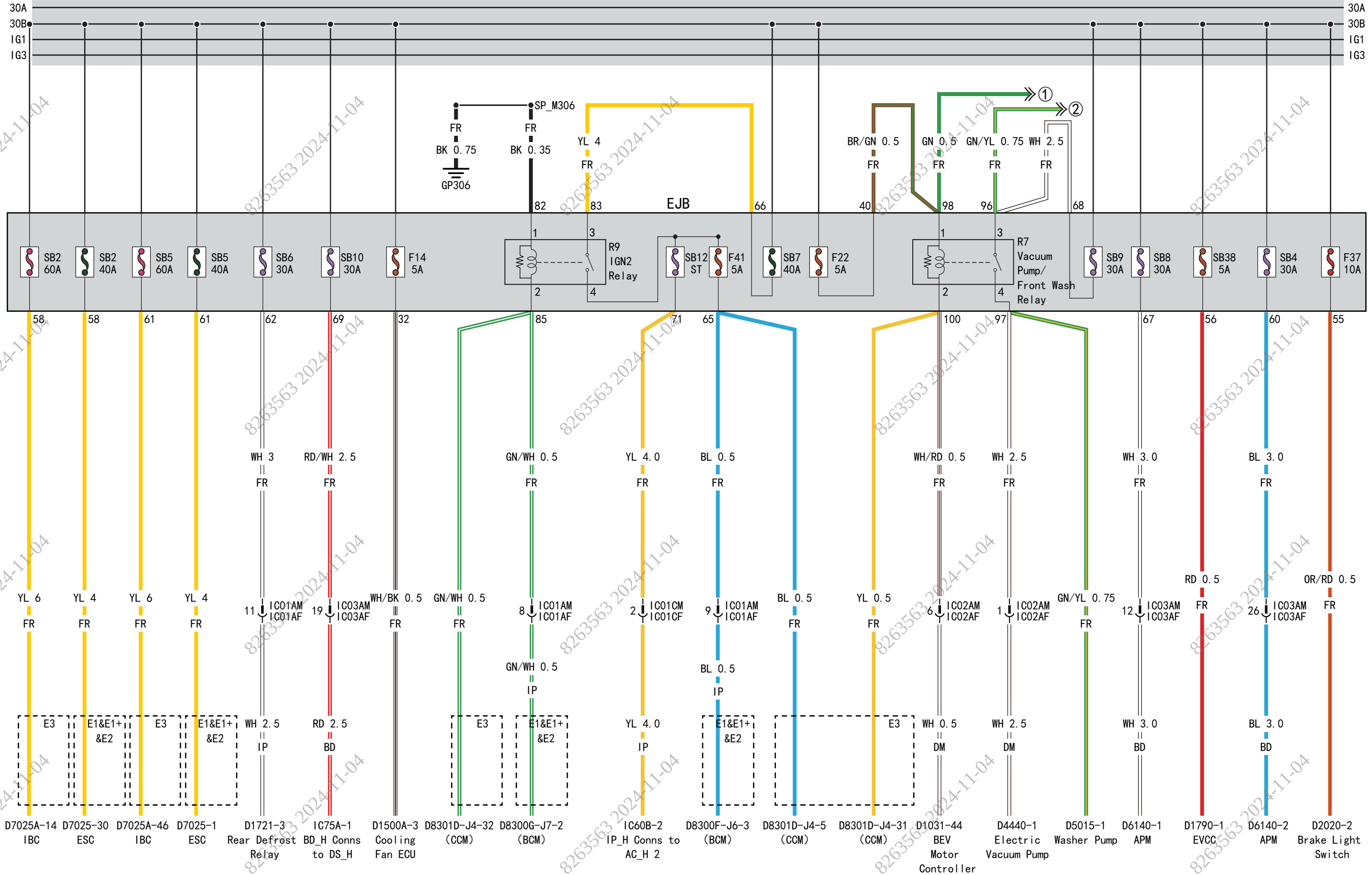
Schematic Diagram

Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



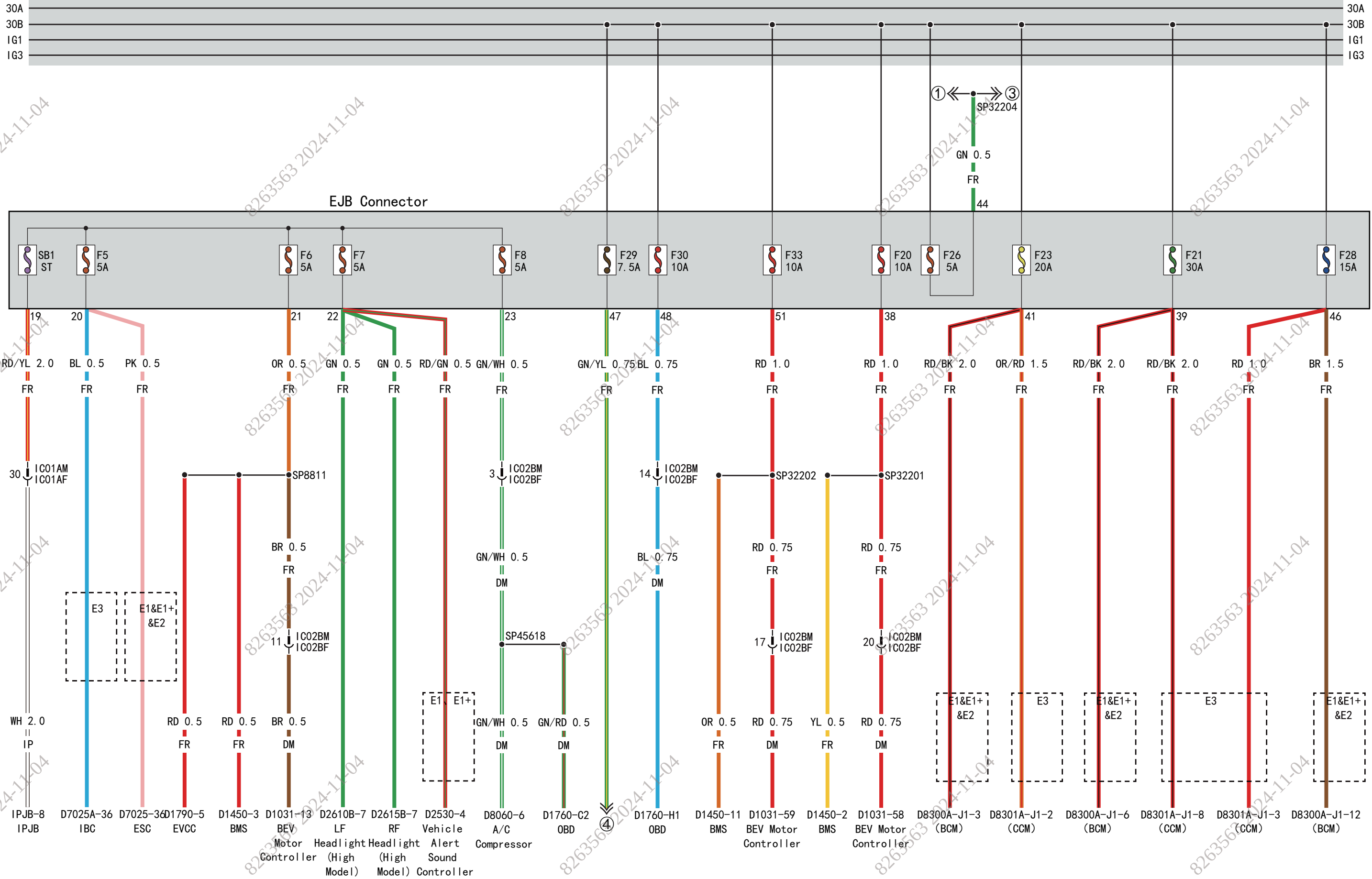
Schematic Diagram 1

Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



Schematic Diagram2

Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



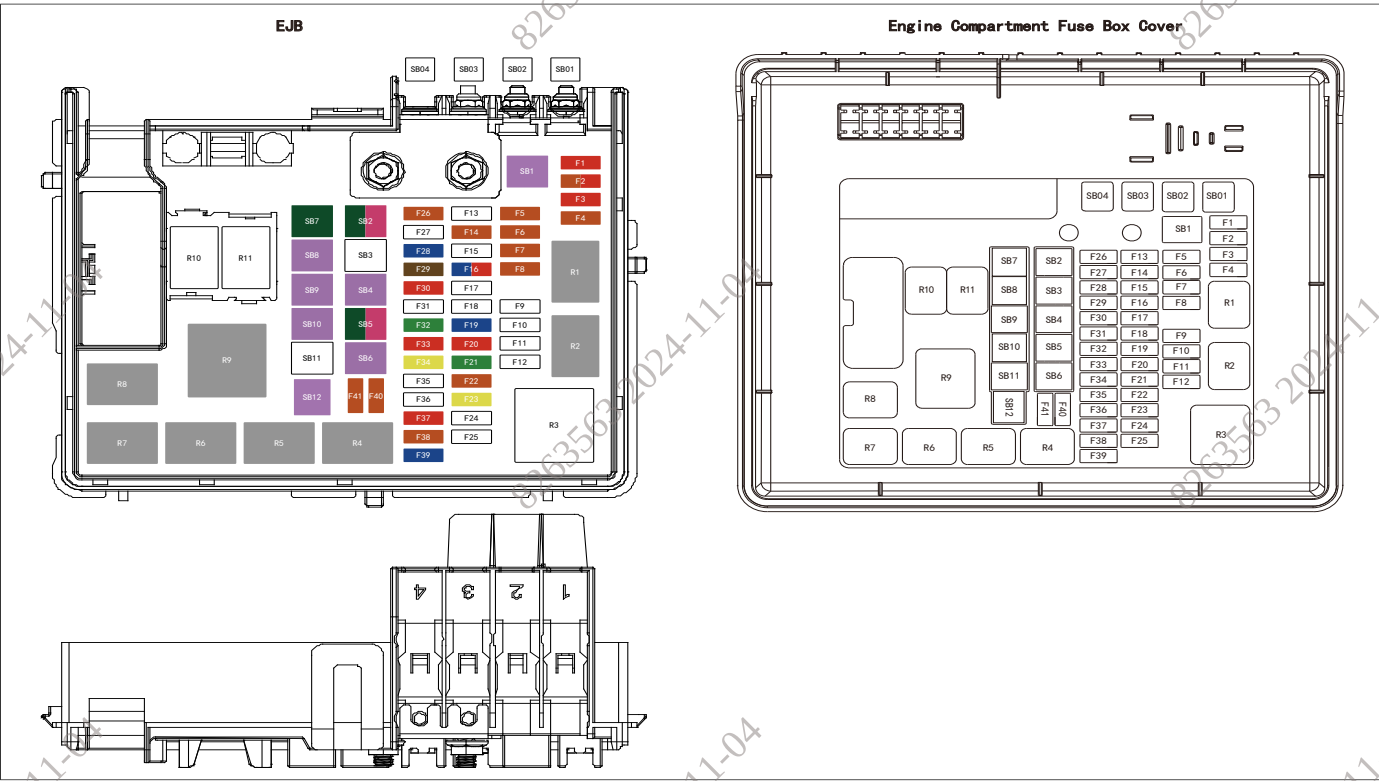
Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



Engine Compartment Fuse Box Fuse and Relay Layout Diagram



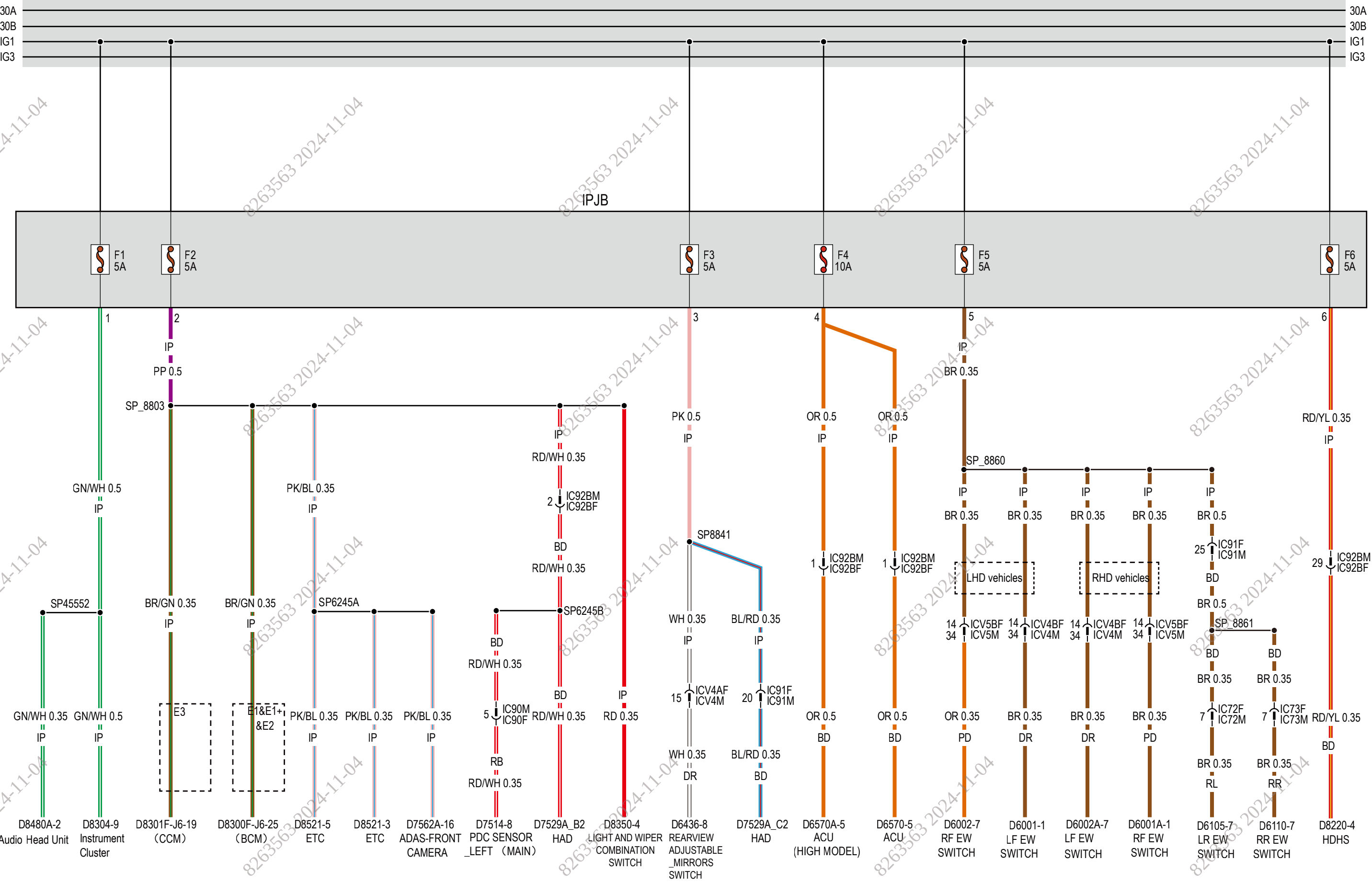
Relay and Fuse List

Name	Type	Specification	Function	Configuration
SB01	MIDI	60A	Cooling Fan Electronic Control Box B+ Supply	ALL
SB02	MIDI	80A	IPJB B+ Supply	ALL
SB03	MIDI	80A	EPS B+ Supply	ALL
SB04	MIDI	Reserved	-	-
SB1	JCASE	ST	EJB IG1 Supply	ALL
SB2	JCASE	40A	ESC ECU and Coil B+ Supply	YESC01
SB2	JCASE	60A	IBC KL30_V B+ Supply	YIBC01
SB3	JCASE	Reserved	-	-
SB4	JCASE	30A	Anti-pinch Window Control B+ Supply 2	ALL
SB5	JCASE	40A	ESC Motor B+ Supply	YESC01
SB5	JCASE	60A	IBC KL30_M B+ Supply	YIBC01
SB6	JCASE	30A	Rear Defroster Relay Contact B+ Supply	RHOT01&C
SB7	JCASE	40A	R9 IG2 Relay Contact B+ Supply	ALL
SB8	JCASE	30A	Anti-pinch Window Control B+ Supply 1	ALL
SB9	JCASE	30A	R7 Electric Vacuum Pump Relay Contact B+ Supply	YESC01
SB10	JCASE	30A	Driver's Seat B+ Supply	TDPS02 TDPS06 TDPS07
SB11	JCASE	Reserved	-	-
SB12	JCASE	ST	Air Conditioning Blower IG2 Supply	ALL
F1	MINI	10A	Left Front Combination Light Supply; Left Front Low Beam Supply	ALL
F2	MINI	5A	Right Rear Combination Light Supply	LEHD03
F2	MINI	10A	Right Front Low Beam Supply	LEHD01
F3	MINI	10A	Right Front Combination Light Supply	LEHD03
F4	MINI	5A	Left Rear Combination Light Supply	LEHD03
F5	MINI	5A	ESC/IBC Controller IG1 Supply	ALL
F6	MINI	5A	PDCU, BMS IG1 ,EVCC Supply	ALL
F7	MINI	5A	Vehicle Warning Sound Controller IG1 Supply; Headlight Leveling IG1 Supply	ALL
F8	MINI	5A	OBC&DCDC/Compressor Controller IG1 Supply	ALL
F9	MINI	Reserved	-	-
F10	MINI	Reserved	-	-

Name	Type	Specification	Function	Configuration
F11	MINI	Reserved	-	-
F12	MINI	Reserved	-	-
F13	MINI	Reserved	-	-
F14	MINI	5A	Cooling Fan Control Box B+ Supply	ALL
F15	MINI	Reserved	-	-
F16	MINI	15A	Rear Wiper B+ Supply	YBCM01&&C
F16	MINI	10A	R7 Front Washer Relay Contact B+ Supply	YBDC01
F17	MINI	Reserved	-	-
F18	MINI	Reserved	-	-
F19	MINI	15A	Motor Water Pump Relay Contact and Coil B+ Supply	ALL
F20	MINI	10A	BMS, PDCU B+ Supply 1	ALL
F21	MINI	30A	BCM/CCM External Light Power 3	ALL
F22	MINI	5A	R7 Electric Vacuum Pump Relay Coil B+ Supply	YESC01
F23	MINI	20A	BCM/CCM External Light Power 1	ALL
F24	MINI	Reserved	-	-
F25	MINI	Reserved	-	-
F26	MINI	5A	R1 Wiper Main/R2 Wiper High Speed/R7 Front Washer/R6 Horn Relay Coil B+ Supply	ALL
F27	MINI	Reserved	-	-
F28	MINI	15A	BCM/CCM External Light Power 2	ALL
F29	MINI	7.5A	Horn Relay Contact B+ Supply	ALL
F30	MINI	10A	OBC&DCDC B+ Supply	ALL
F31	MINI	Reserved	-	-
F32	MINI	30A	Wiper Main Relay Contact 4 B+ Supply	ALL
F33	MINI	10A	BMS, PDCU B+ Supply 2	ALL
F34	MINI	20A	R5 Low Beam Relay Contact and Coil B+ Supply	ALL
F35	MINI	Reserved	-	-
F36	MINI	Reserved	-	-
F37	MINI	10A	Brake Light Switch B+ Supply	ALL
F38	MINI	5A	EVCC Supply	ALL
F39	MINI	15A	R8 High Beam Relay Contact and Coil B+ Supply	LEHD03
F40	MINI	5A	Headlight Leveling Supply; Front Through Light Supply	ALL
F41	MINI	5A	BCM/CCM IG2 Feedback Input	ALL
R1	Micro	35A	Wiper Main Relay	ALL
R2	Micro	35A	Wiper High Speed Relay	ALL
R3	Micro	Reserved	-	-
R4	Micro	35A	Cooling Water Pump Relay	ALL
R5	Micro	35A	Low Beam Relay	ALL
R6	Micro	35A	Horn Relay	ALL
R7	Micro	35A	Electric Vacuum Pump Relay	YESC01
R7	Micro	35A	Front Washer Motor Relay	YBDC01
R8	Micro	35A	High Beam Relay	LEHD03
R9	MINI	40A	IG2 Blower Relay	ALL
R10	Micro	Reserved	-	-
R11	Micro	Reserved	-	-

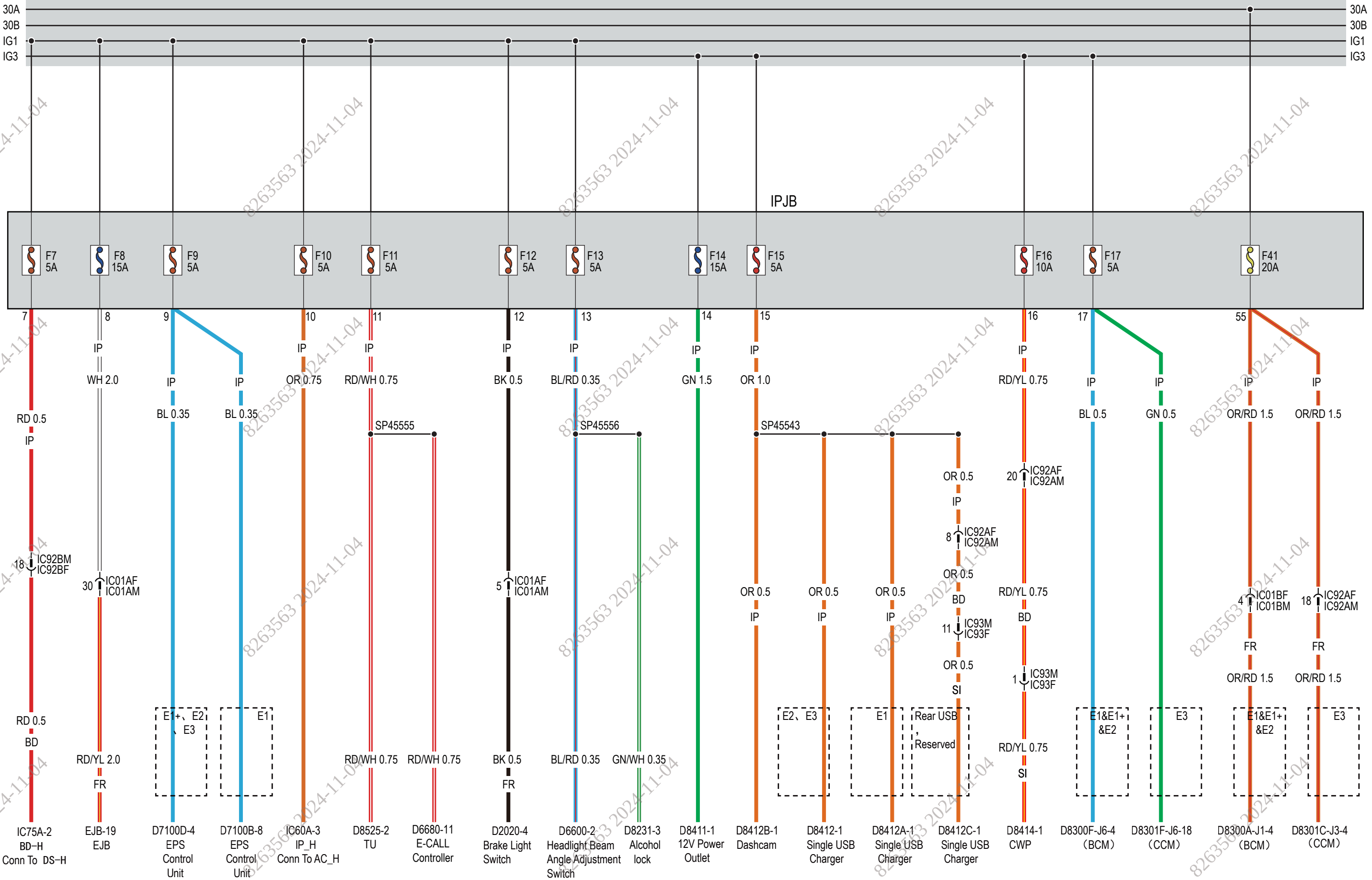
Schematic Diagram 1

Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



Schematic Diagram 2

Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



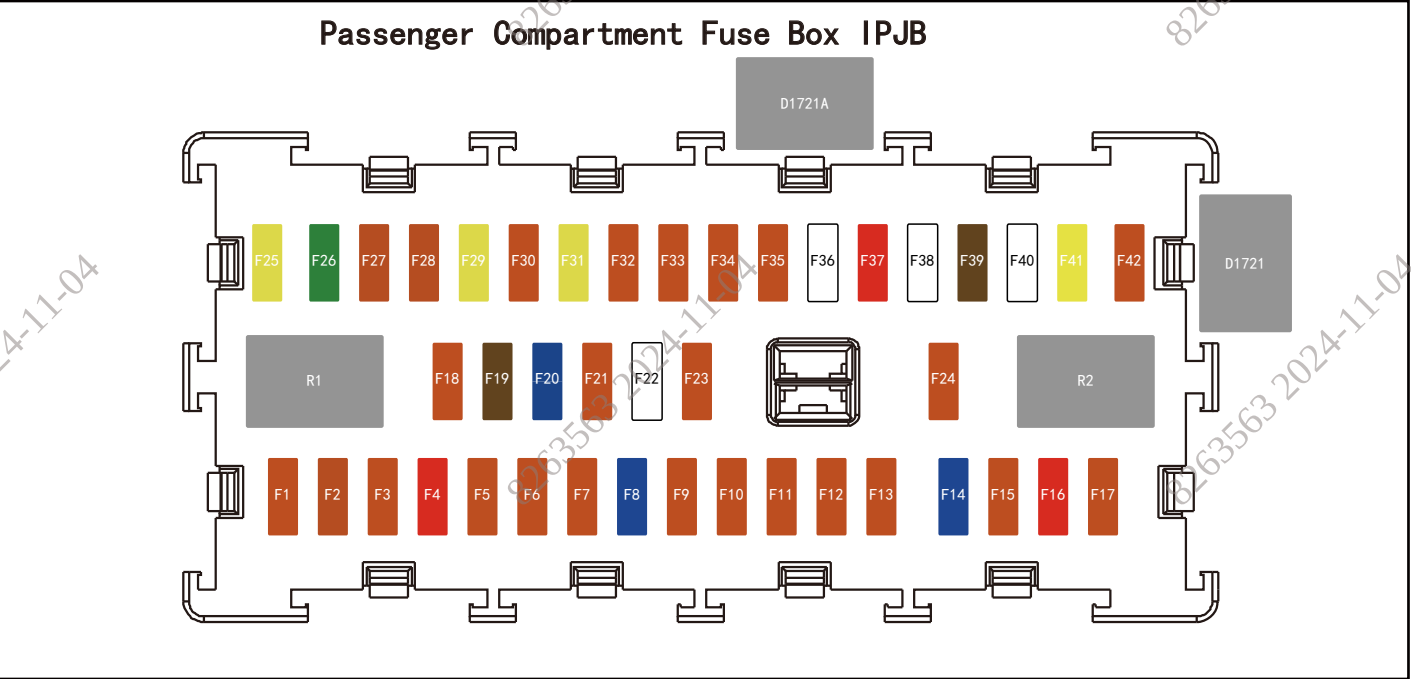
Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



Passenger Compartment Fuse Box Fuse and Relay Layout Diagram

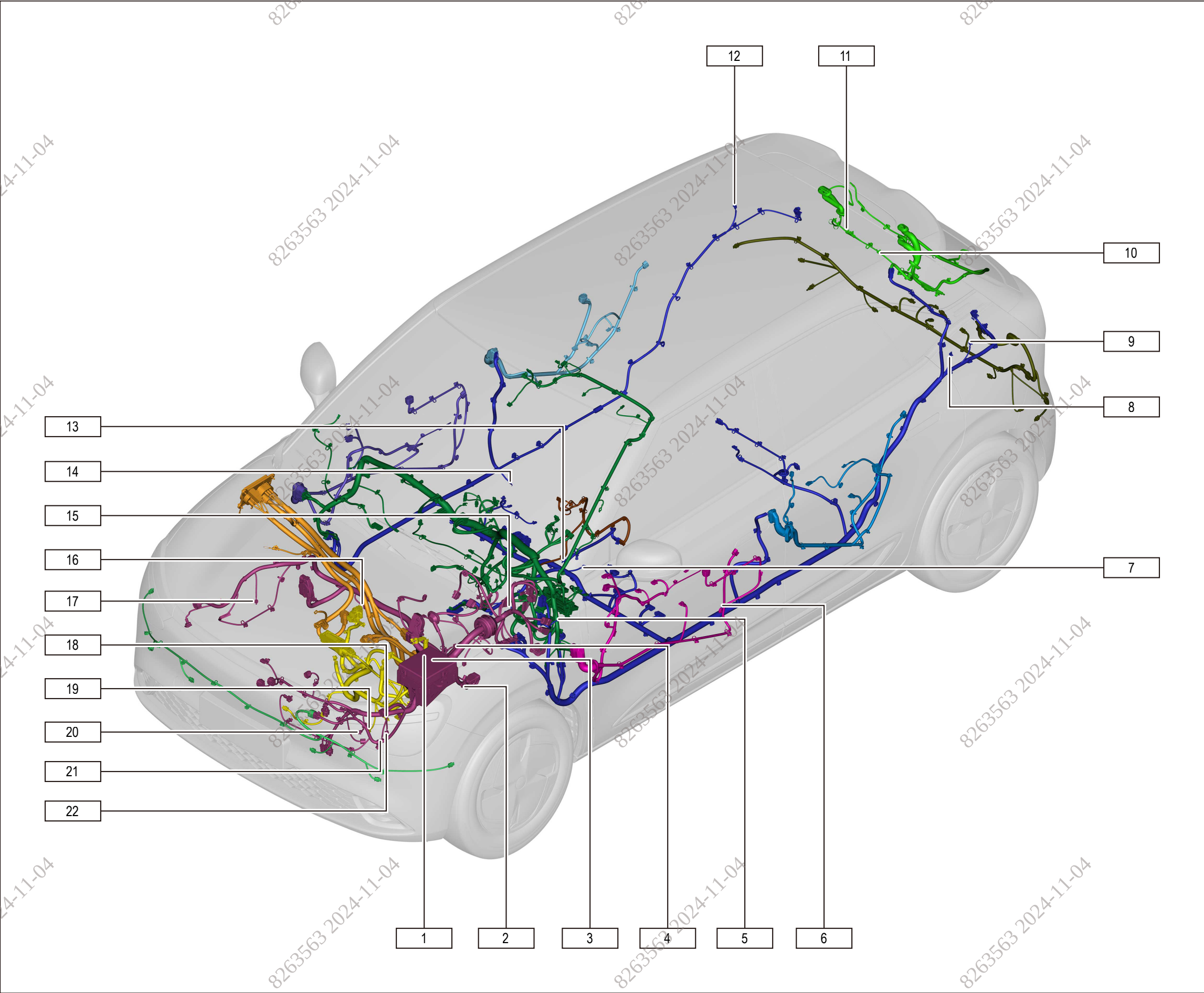


Name	Type	Specification	Function	Configuration
F29	MINI	20A	BCM/CCM Interior Light B+ Supply	ALL
F30	MINI	5A	Alcohol lock Supply	YALC01
F31	MINI	20A	Controlled Power Supply Relay Contact B+ Supply	ALL
F32	MINI	5A	E-CALL Controller Supply	YECA01
F33	MINI	5A	Rear Defroster Relay Coil, Controlled Power Supply Relay Coil B+ Supply	ALL
F34	MINI	5A	Anti-pinch Window Control B+ Supply	ALL
F35	MINI	5A	TU Remote Monitoring Module B+ Supply	ALL
F36	MINI	Reserved	-	-
F37	MINI	10A	DMS Supply	IBAW01
F38	MINI	Reserved	-	-
F39	MINI	7.5A	CCM Air Conditioning, CCM Rearview Mirror Folding B+ Supply	YBDC01
F40	MINI	Reserved	-	-
F41	MINI	20A	BCM/CCM Door Lock B+ Supply	ALL
F42	MINI	5A	Rearview Mirror Heater Supply	RHOT01
R1	Micro	35A	IGN1 Relay	ALL
R2	Micro	35A	IGN3 Relay	ALL
D1721	Micro	35A	Rear Defrost Relay	RHOT01
D1721A	Micro	35A	Controlled Power Supply Relay	ALL

Relay and Fuse List

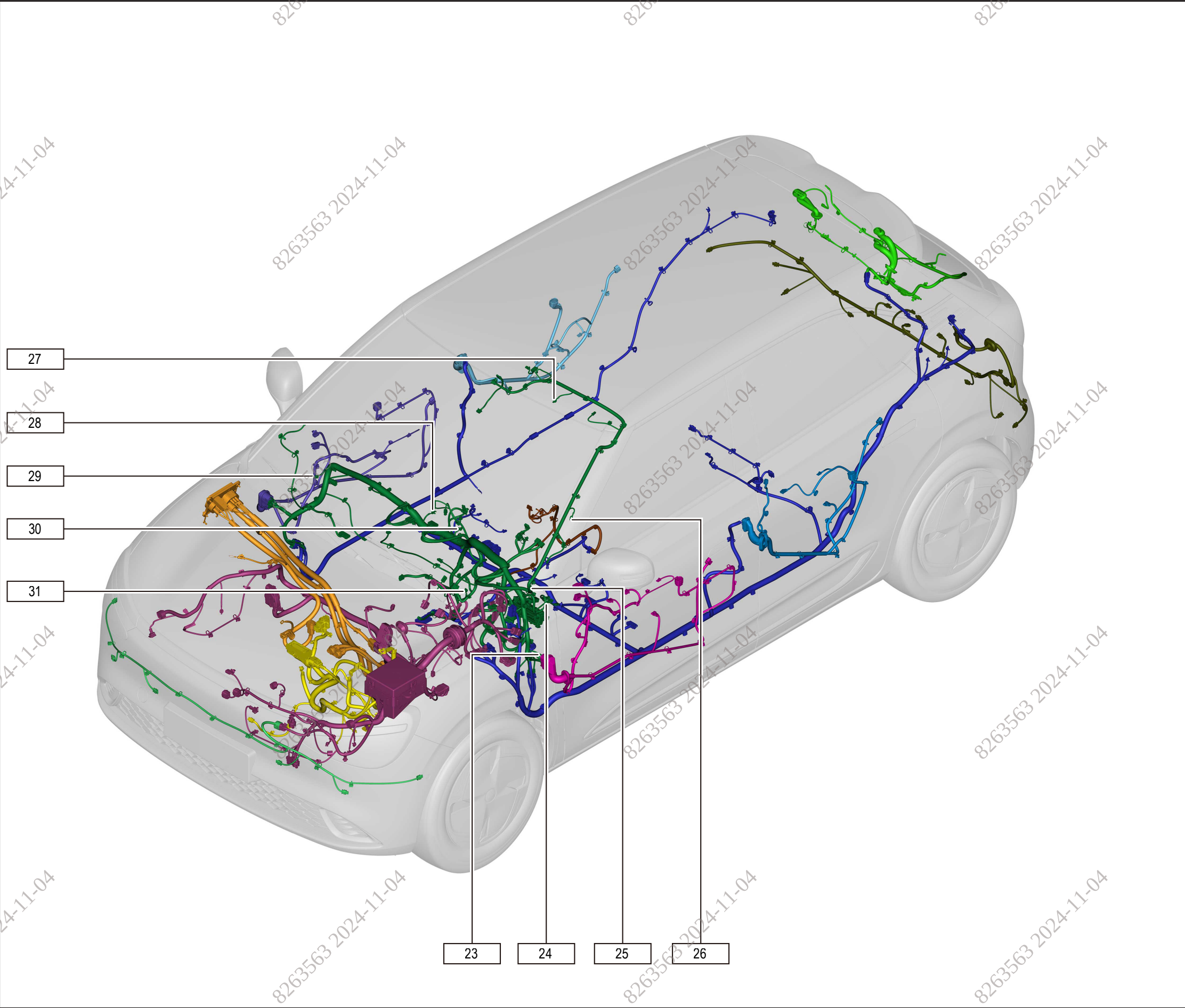
Name	Type	Specification	Function	Configuration
F1	MINI	5A	MP5, Combination Instrument IG1 Supply	ALL
F2	MINI	5A	ETC, Combination Switch, ADAS Camera, CCM/BCM Feedback Input, Parking Radar Controller, FAPA IG1 Supply	ALL
F3	MINI	5A	FAPA, Rearview Mirror Adjustment Switch IG1 Supply	ALL
F4	MINI	10A	Airbag Controller IG1 Supply	ALL
F5	MINI	5A	Four-Door Electric Window Switch Backlight IG1 Supply	ALL
F6	MINI	5A	Hidden Door Handle Controller IG1 Supply	NKLE01
F7	MINI	5A	Seat IG1 Supply	TDPS02 TDPS06 TDPS07
F8	MINI	15A	EJB IG1 Supply	ALL
F9	MINI	5A	EPS IG1 Supply	ALL
F10	MINI	5A	Electric Air Conditioning Controller IG1 Supply	VEAC01
F11	MINI	5A	TU Remote Monitoring Module IG1 Supply,E-CALL Supply	YECA01&&HMP00YECA01
F12	MINI	5A	Brake Light Switch IG1 Supply	ALL
F13	MINI	5A	Headlight Adjustment Switch IG1 Supply,Alcohol lock Supply	YALC01
F14	MINI	15A	12V Power Outlet IG3 Supply	ALL
F15	MINI	5A	Dashcam, Driver's USB, Passenger's USB IG3 Supply	ALL
F16	MINI	10A	Mobile Phone Wireless Charger IG3 Supply	TWLC01
F17	MINI	5A	BCM/CCM IG3 Feedback Input	ALL
F18	MINI	5A	Instrument Cluster, Air Conditioning Stepper Motor, Combination Switch B+ Supply	ALL
F19	MINI	7.5A	FAPA B+ Supply 1, ADAS Camera B+ Supply	IADA02 IAPA01
F20	MINI	15A	MP5 B+ Supply	ALL
F21	MINI	5A	OBD B+ Supply	ALL
F22	MINI	Reserved	-	-
F23	MINI	5A	Vehicle Warning Sound Controller Supply	NKLE01
F24	MINI	5A	Electric Air Conditioning Controller Supply	VEAC01
F25	MINI	20A	Hidden Door Handle Controller Supply	NKLE01
F26	MINI	30A	Main Fuse for Busbar Terminals	ALL
F27	MINI	5A	FAPA B+ Supply 2	IAPA01
F28	MINI	5A	Left Front Door Window Switch, Left Front Door Handle Switch B+ Supply	ALL

Layout Diagram



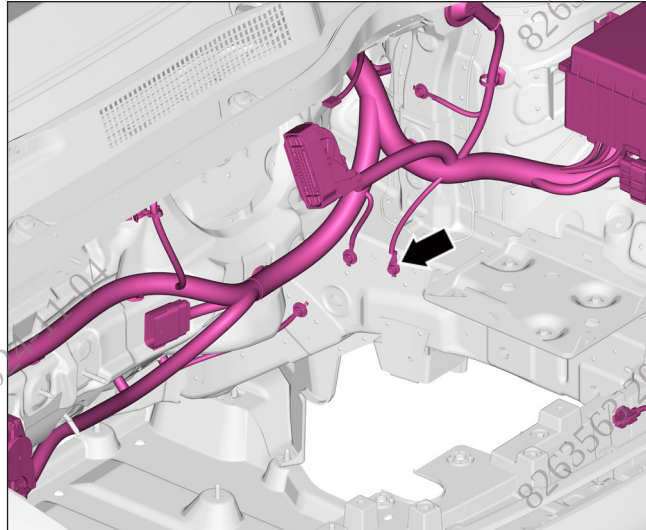
No.	Name	Note
1	G103AGND	FR_H GND
2	GP205GND	FR_H GND
3	GP306GND	FR_H GND
4	GP305GND	FR_H GND
5	GP108GND	BD_H GND
6	GP203GND	BD_H GND
7	GP201GND	BD_H GND
8	GP207GND	BD_H GND
9	GP206GND	BD_H GND
10	GP401GND	TG GND
11	GP402GND	TG GND
12	GP209GND	BD_H GND
13	GP202GND	BD_H GND
14	GP204GND	BD_H GND
15	G107GND	BD_H GND
16	G103GND	FR_HGND
17	GP301GND	FR_HGND
18	G102GND	DM_H GND
19	G104GND	DM_H GND
20	GP302GND	FR_H GND
21	GP307GND	FR_H GND
22	GP303GND	FR_H GND

Layout Diagram



No.	Name	Note
23	GP107GND	IP_H GND
24	GP101GND	IP_H GND
25	GP102GND	IP_H GND
26	GP109GND	IP_H GND
27	GP502GND	IP_H GND
28	GP105GND	IP_H GND
29	GP106GND	IP_H GND
30	GP103GND	IP_H GND
31	GP104GND	IP_H GND

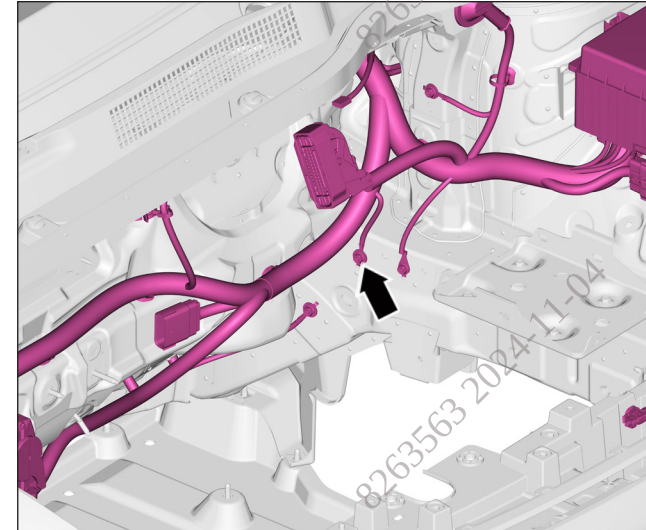
Position Diagrams



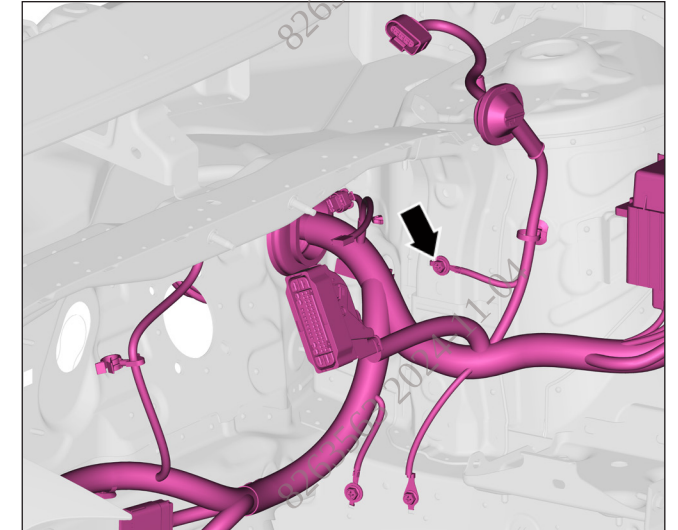
G103A Grounding Point: Installed on the left front longitudinal beam, indicated by an arrow.



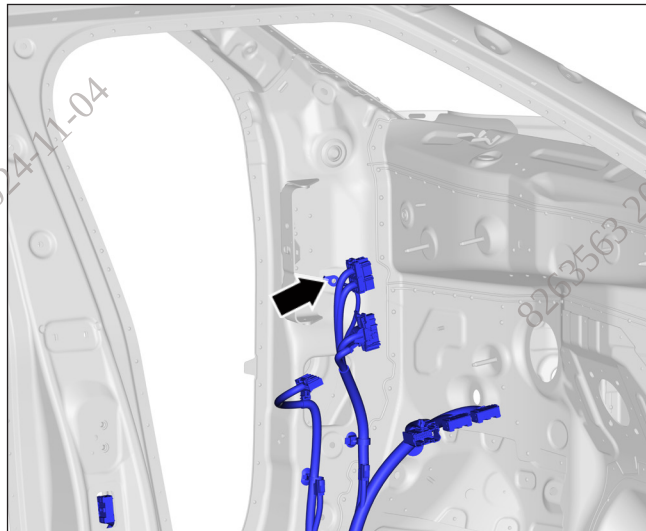
GP205 Grounding Point: Installed on the left front longitudinal beam, indicated by an arrow.



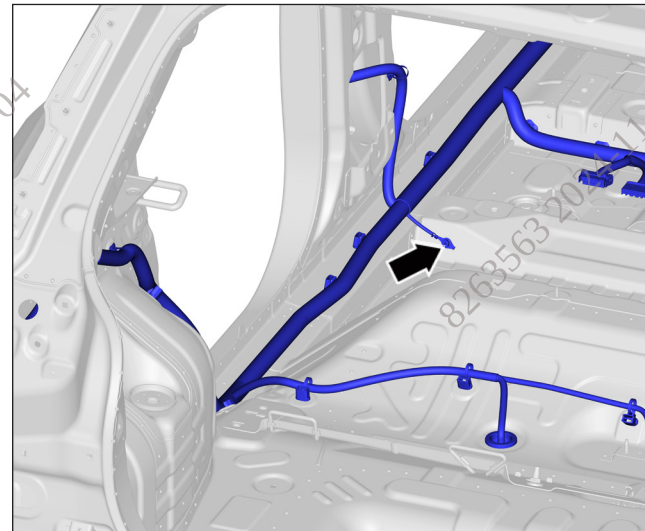
GP306 Grounding Point: Installed on the left front longitudinal beam, indicated by an arrow.



GP305 Grounding Point: Installed on the left front wheel arch, arrow indicates position.



GP108 Grounding Point: Installed on the left side inner panel reinforcement, arrow indicates position.



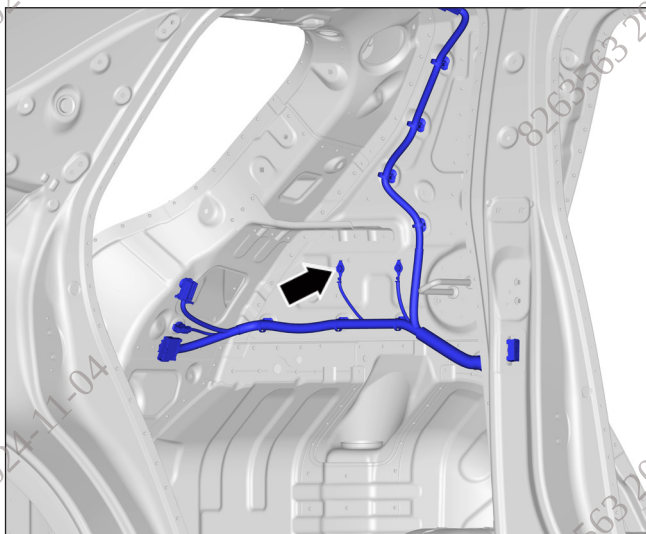
GP203 Grounding Point: Installed on the rear part of the left front cross member, arrow indicates position.



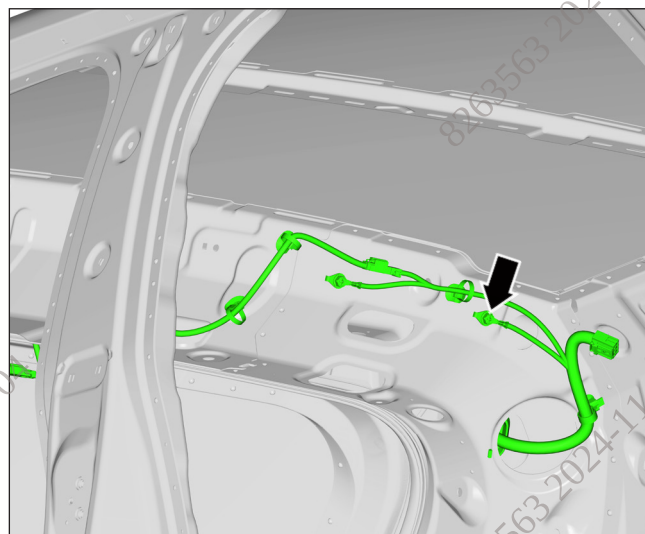
GP201 Grounding Point: Installed on the central tunnel of the body, arrow indicates position.



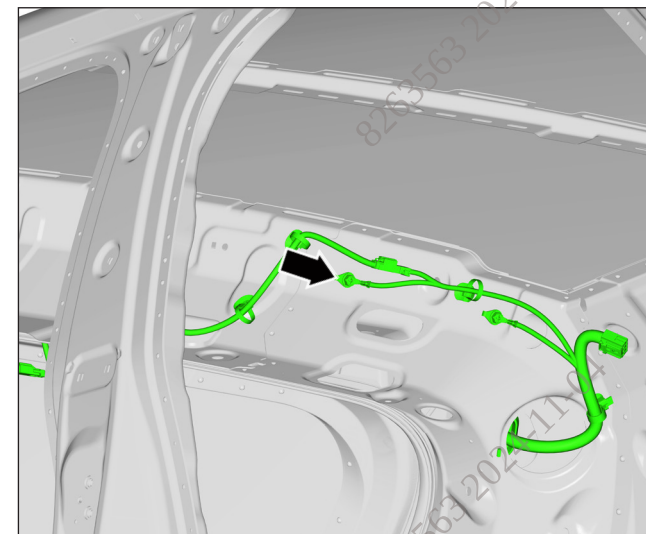
GP207 Grounding Point: Installed on the left rear wheel arch, arrow indicates position.



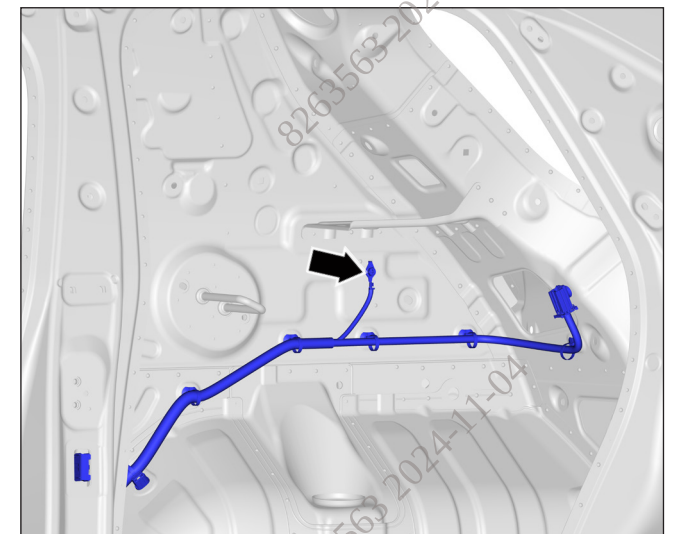
GP206 Grounding Point: Installed on the left rear wheel arch, arrow indicates position.



GP401 Grounding Point: Installed on the rear cross member of the roof, arrow indicates position.



GP402 Grounding Point: Installed on the rear cross member of the roof, arrow indicates position.

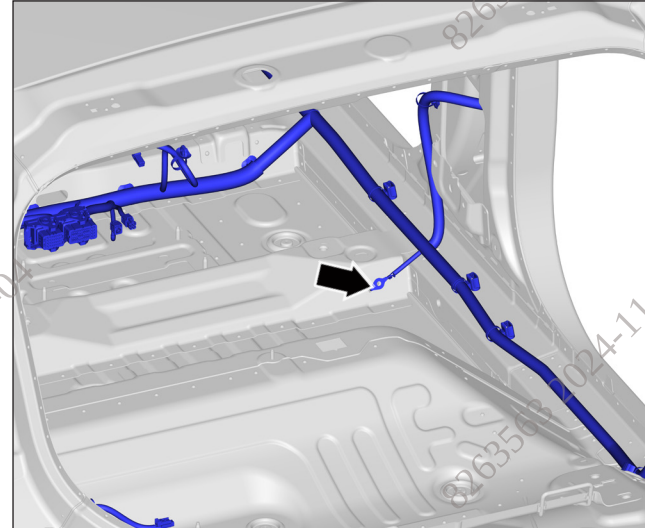


GP209 Grounding Point: Installed on the right rear wheel arch, arrow indicates position.

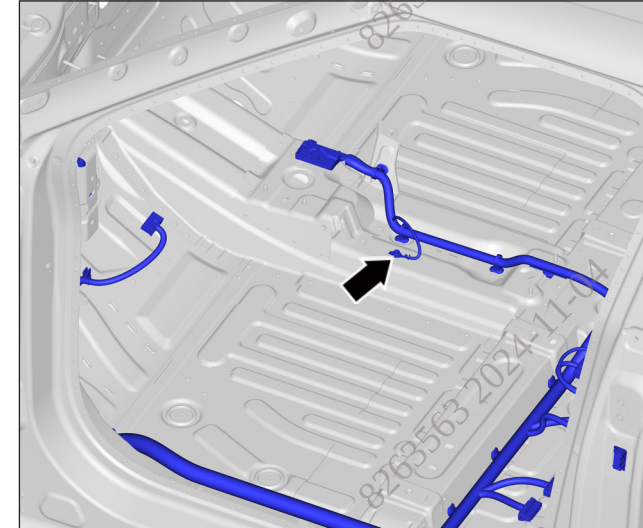
Position Diagrams



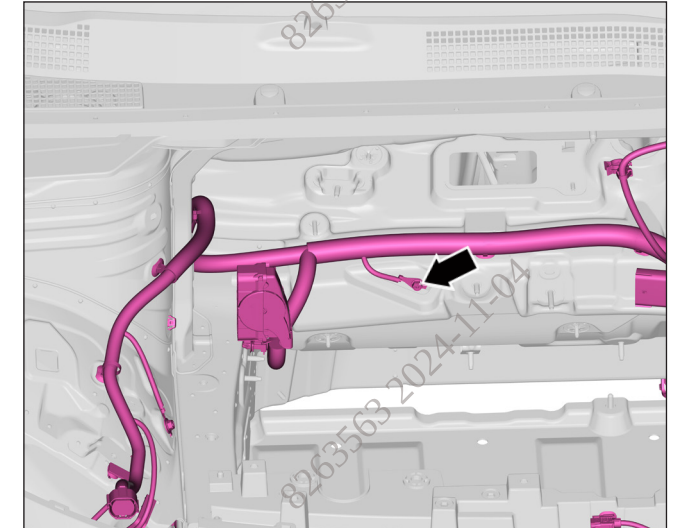
GP202 Grounding Point: Installed on the central tunnel of the body, arrow indicates position.



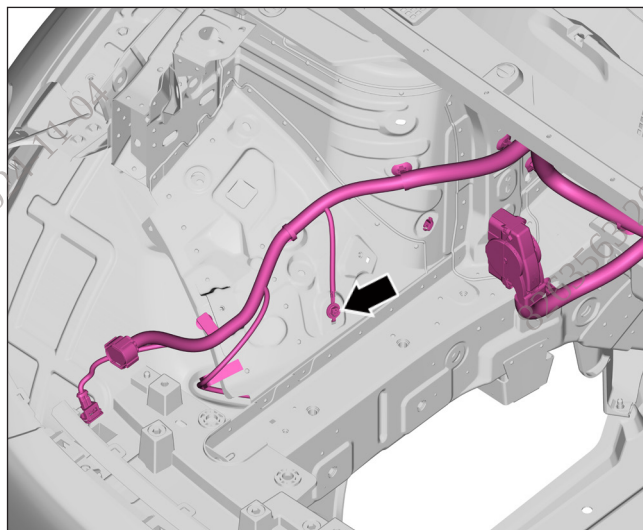
GP204 Grounding Point: Installed on the rear part of the right front cross member, arrow indicates position.



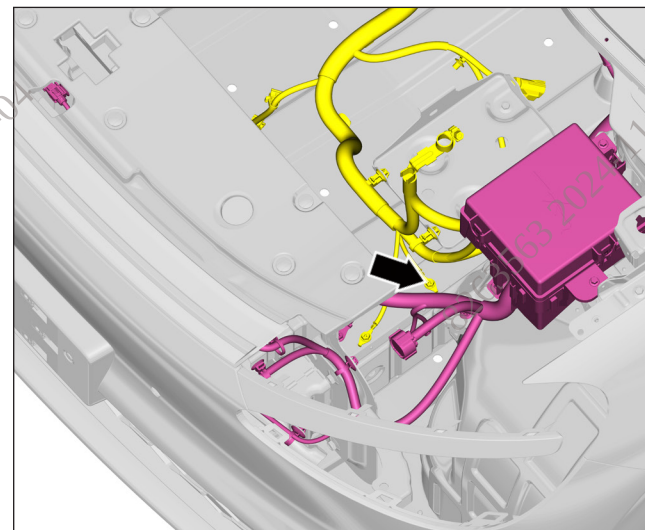
G107 Grounding Point: Installed on the central tunnel of the body, arrow indicates position.



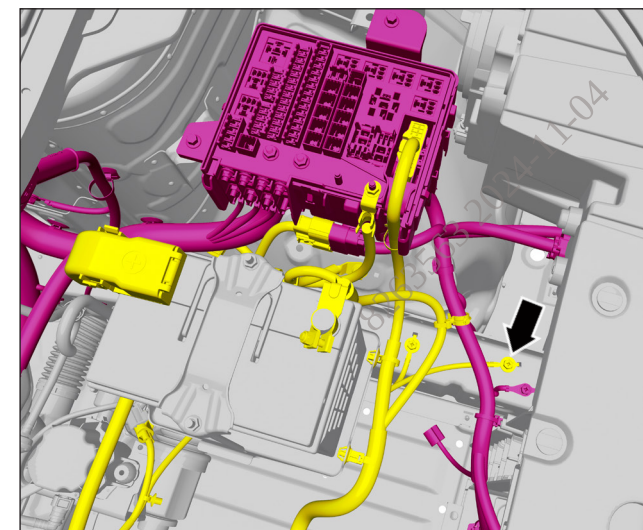
G103 Grounding Point: Installed on the front bulkhead assembly, arrow indicates position.



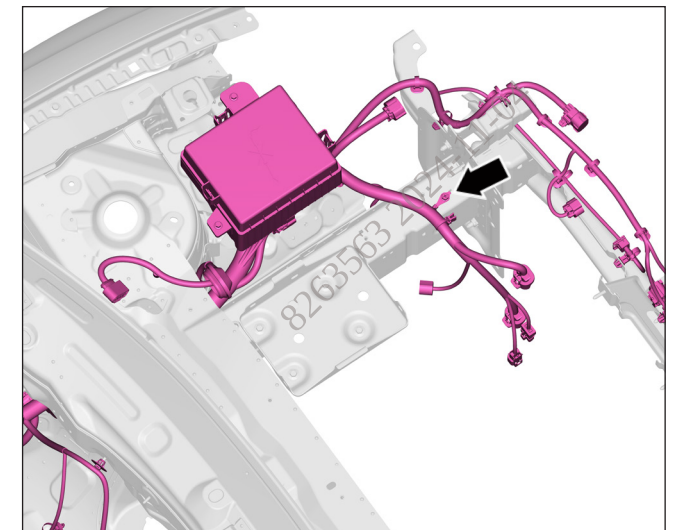
GP301 Grounding Point: Installed on the right front wheel arch, arrow indicates position.



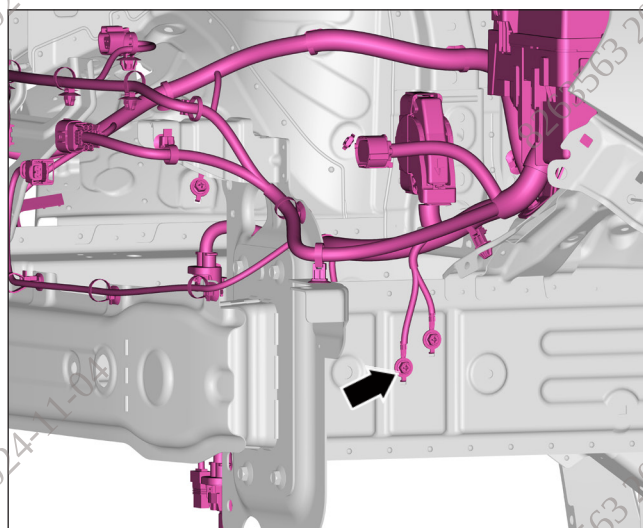
G102 Grounding Point: Installed on the left front longitudinal beam, indicated by an arrow.



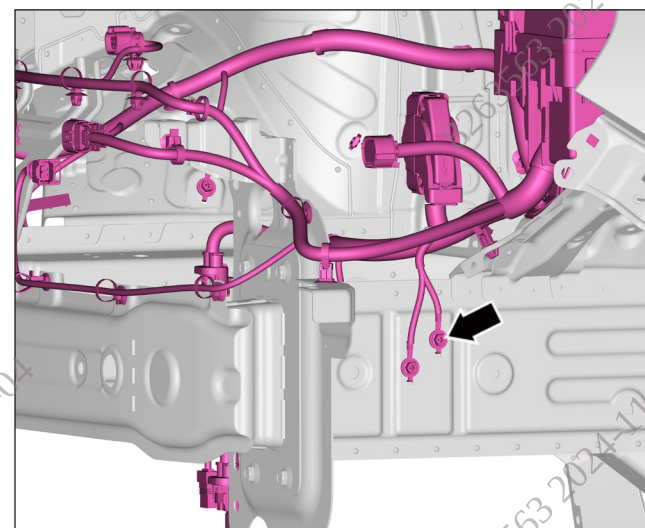
G104 Grounding Point: Installed on the left front longitudinal beam, indicated by an arrow.



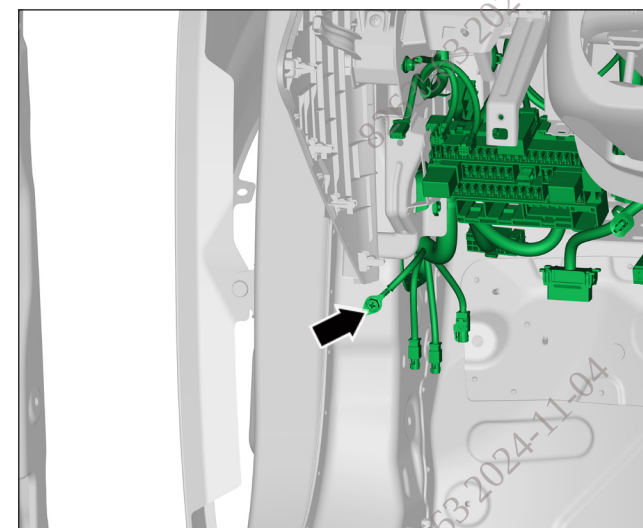
GP302 Grounding Point: Installed on the left front longitudinal beam, indicated by an arrow.



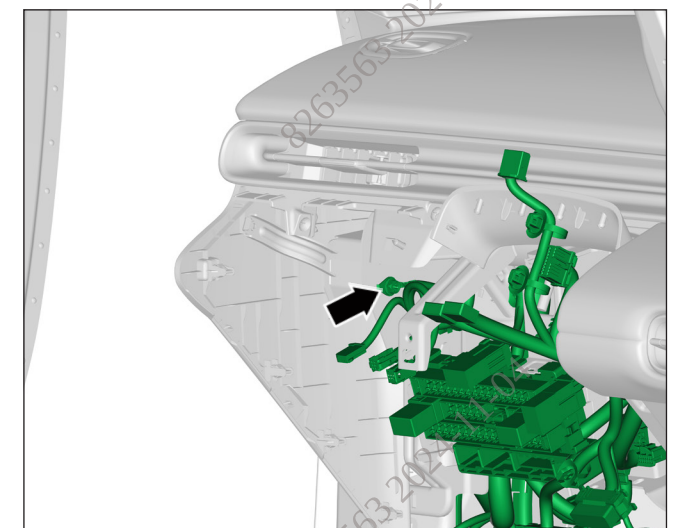
GP307 Grounding Point: Installed on the left front longitudinal beam, indicated by an arrow.



GP303 Grounding Point: Installed on the left front longitudinal beam, indicated by an arrow.

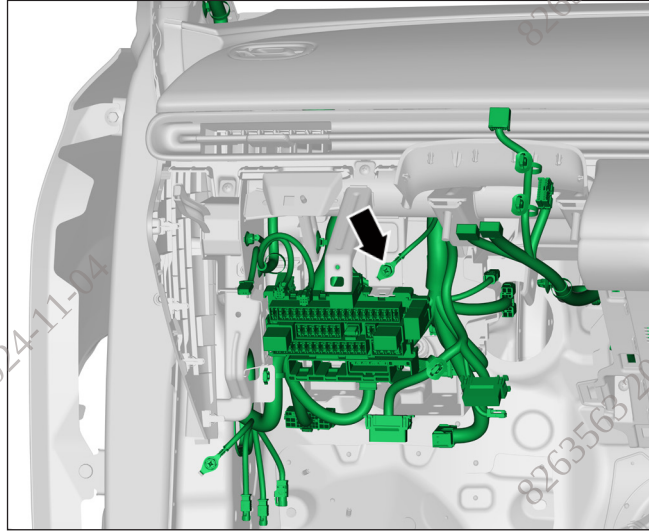


GP107 Grounding Point: Installed on the left side inner panel reinforcement, arrow indicates position.

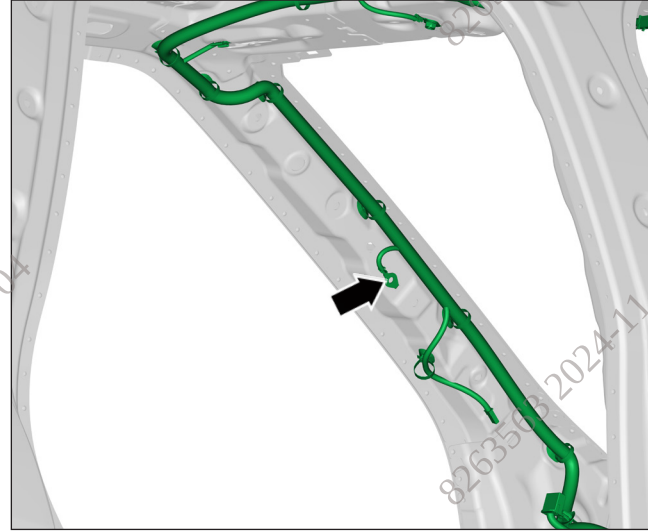


GP101 Grounding Point: Installed on the left side of the instrument panel bracket, arrow indicates position.

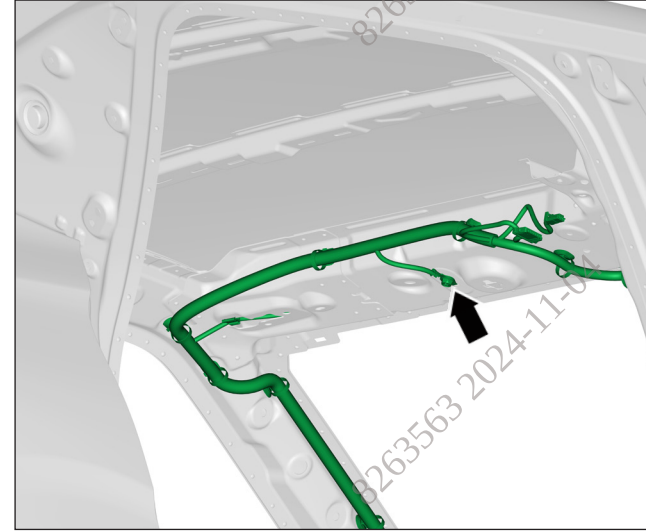
Position Diagrams



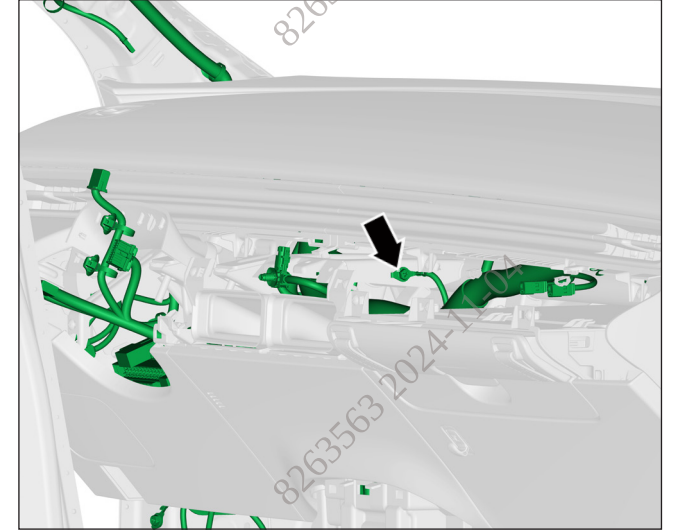
GP102 Grounding Point: Installed on the left side of the instrument panel bracket, arrow indicates position.



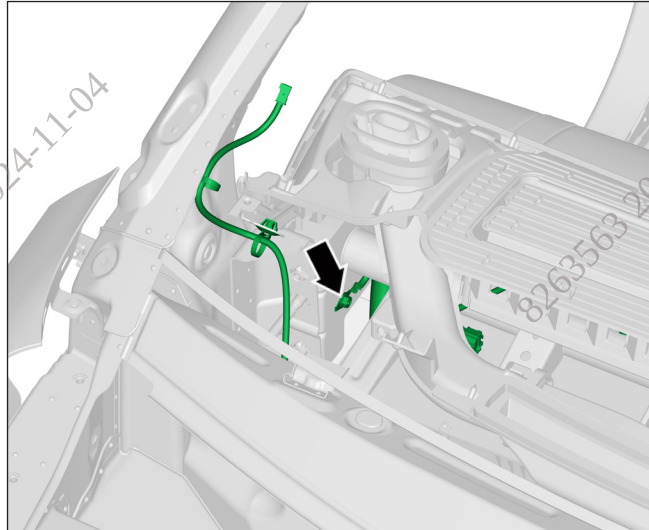
GP109 Grounding Point: Installed on the left side A-pillar, arrow indicates position.



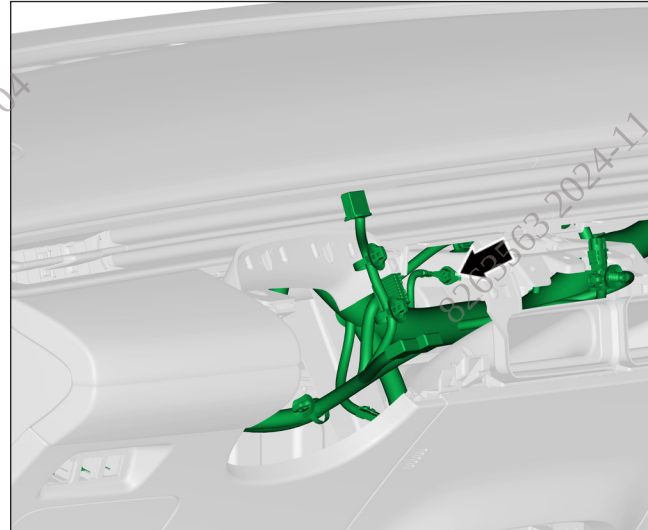
GP502 Grounding Point: Installed on the front cross member of the roof, arrow indicates position.



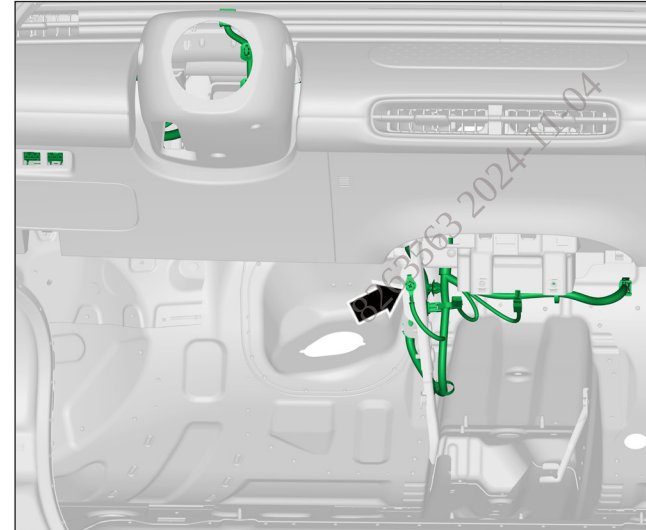
GP105 Grounding Point: Installed on the left side of the instrument panel bracket, arrow indicates position.



GP106 Grounding Point: Installed on the right side inner panel reinforcement, arrow indicates position.

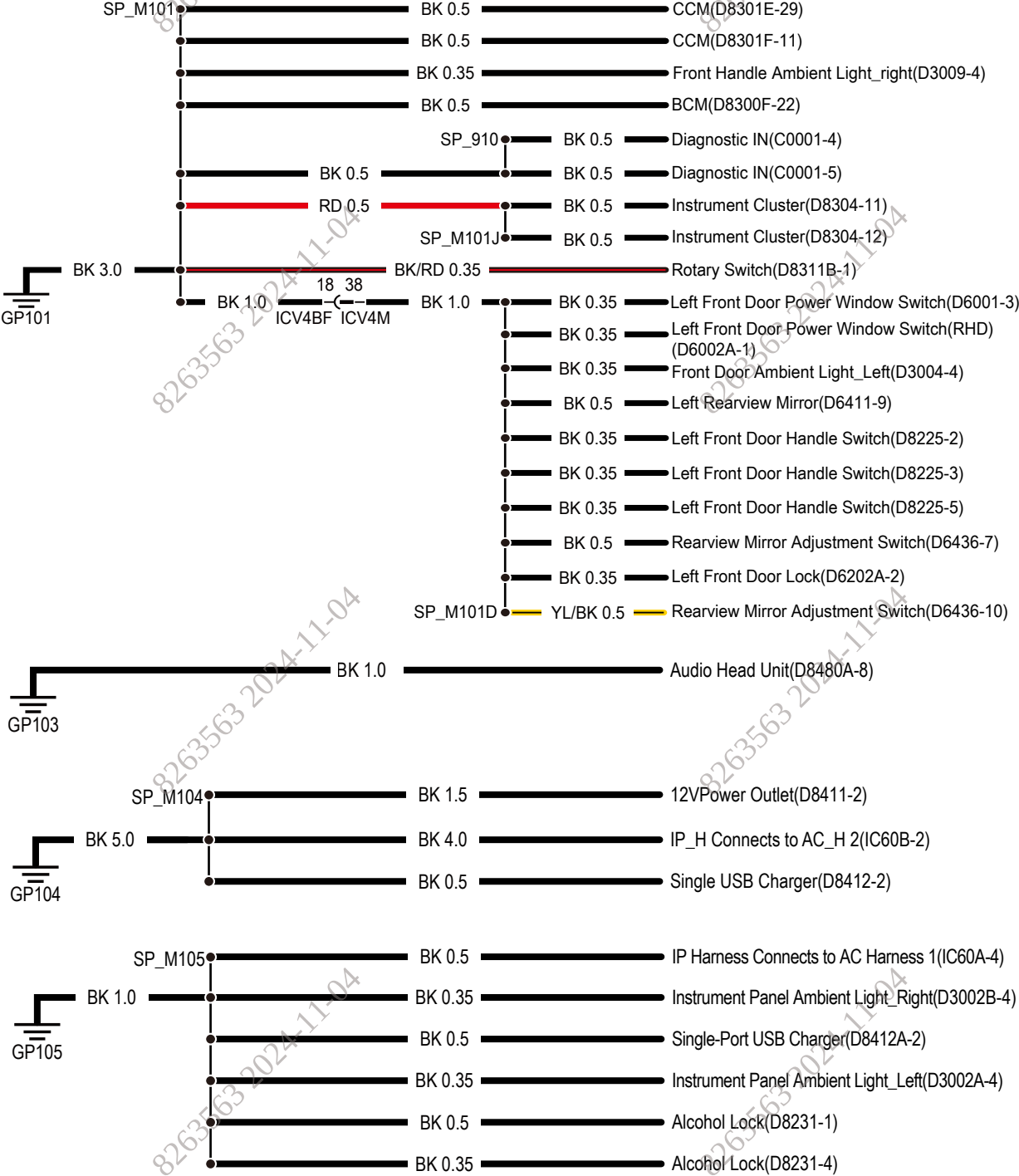
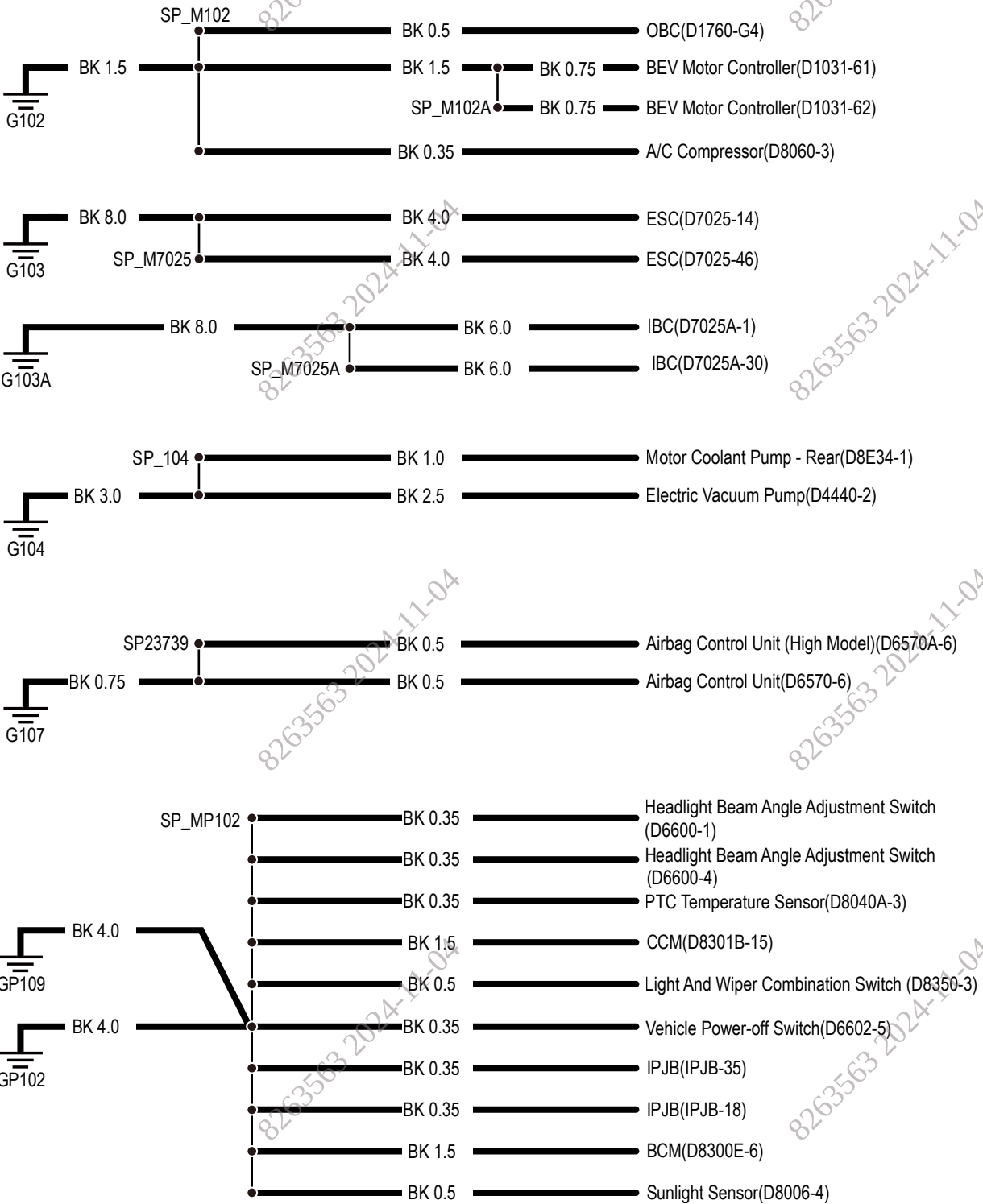


GP103 Grounding Point: Installed on the right side of the instrument panel bracket, arrow indicates position.



GP104 Grounding Point: Installed on the instrument panel bracket, arrow indicates position.

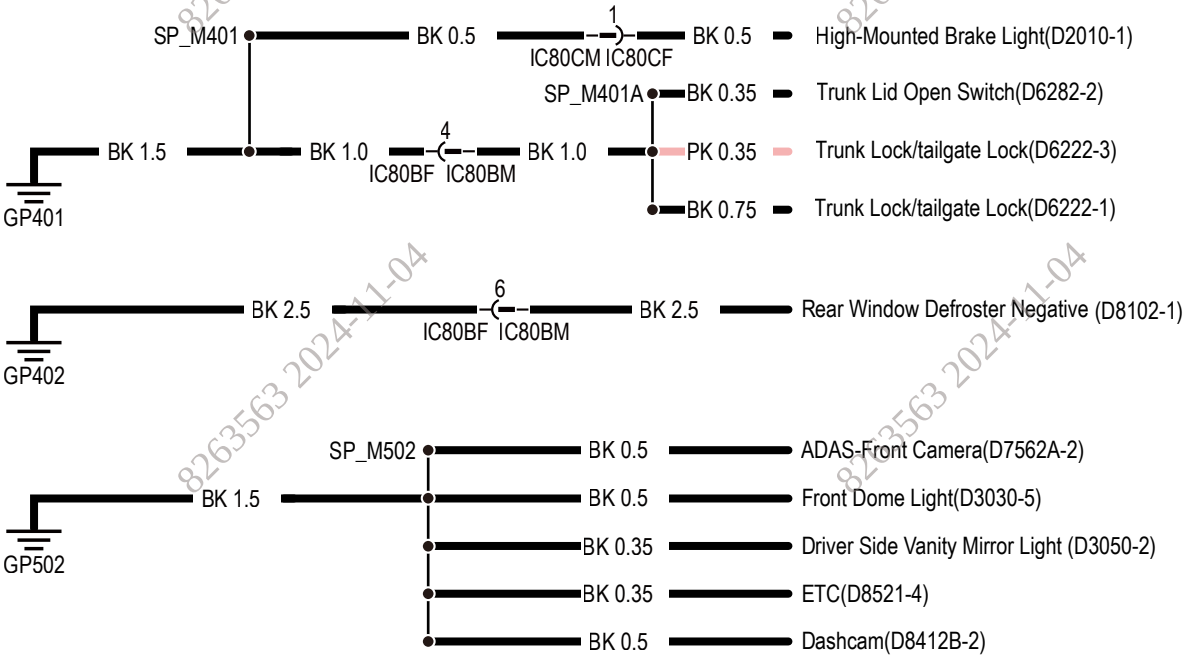
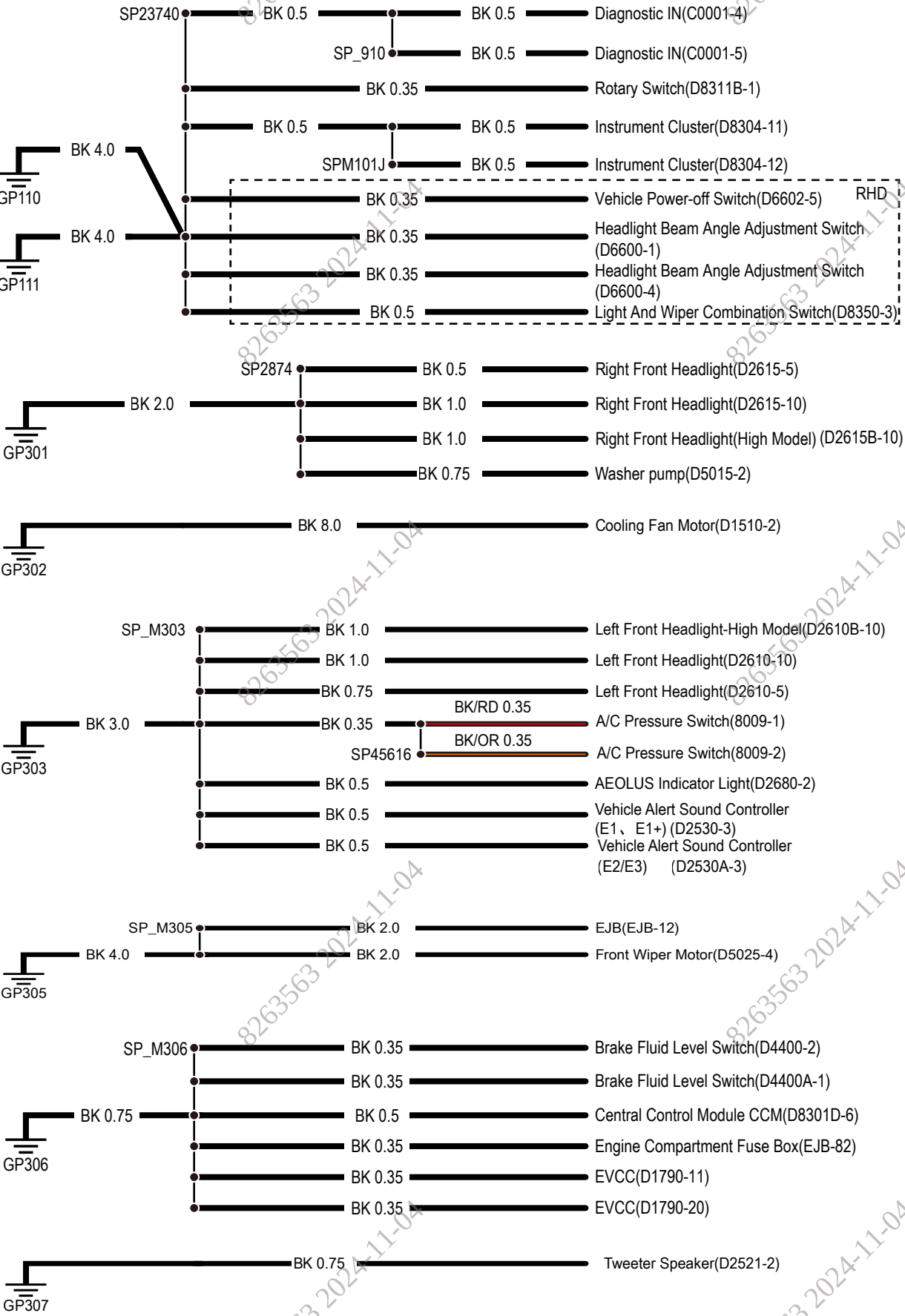
Schematic Diagram

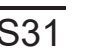


Schematic Diagram

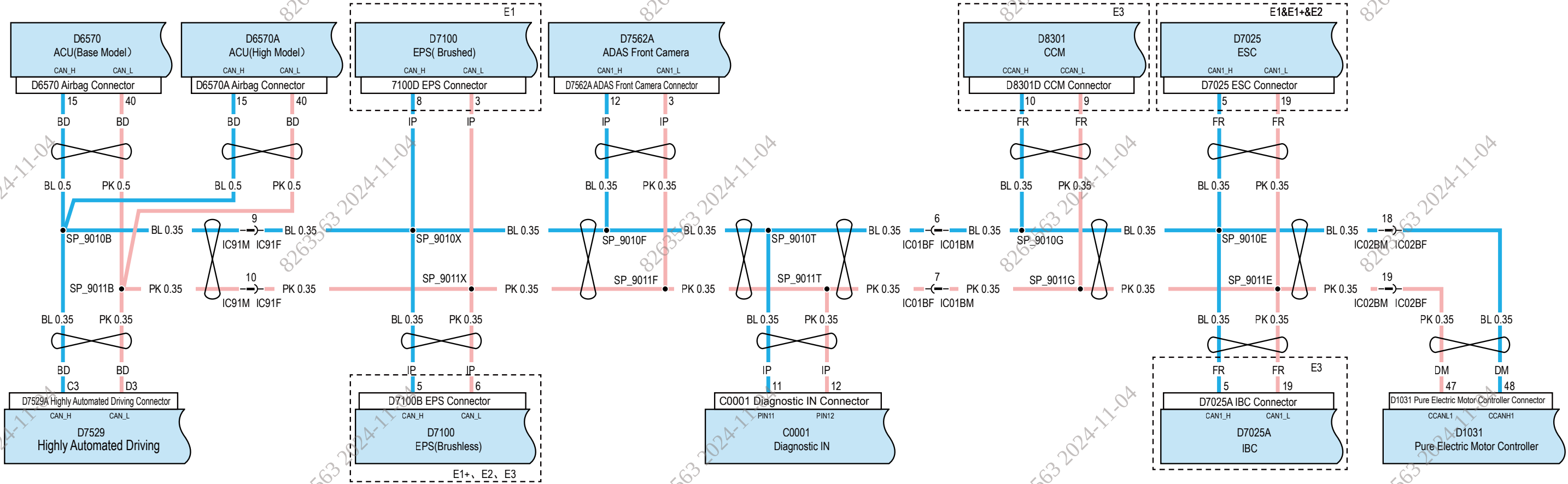


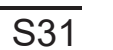
Schematic Diagram



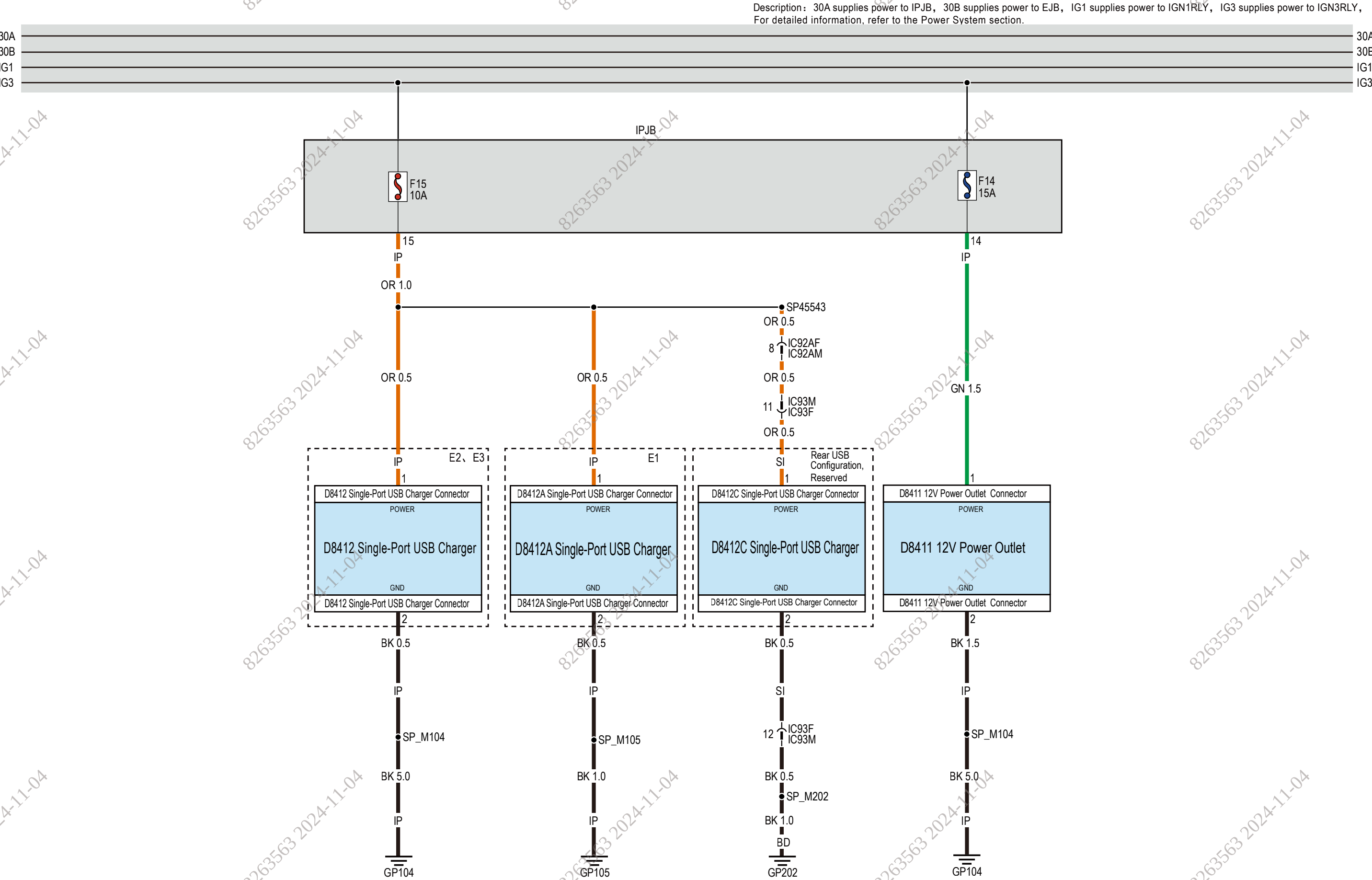


Chassis CCAN Schematic





Power Outlet Schematic



Remote Monitoring TU Schematic

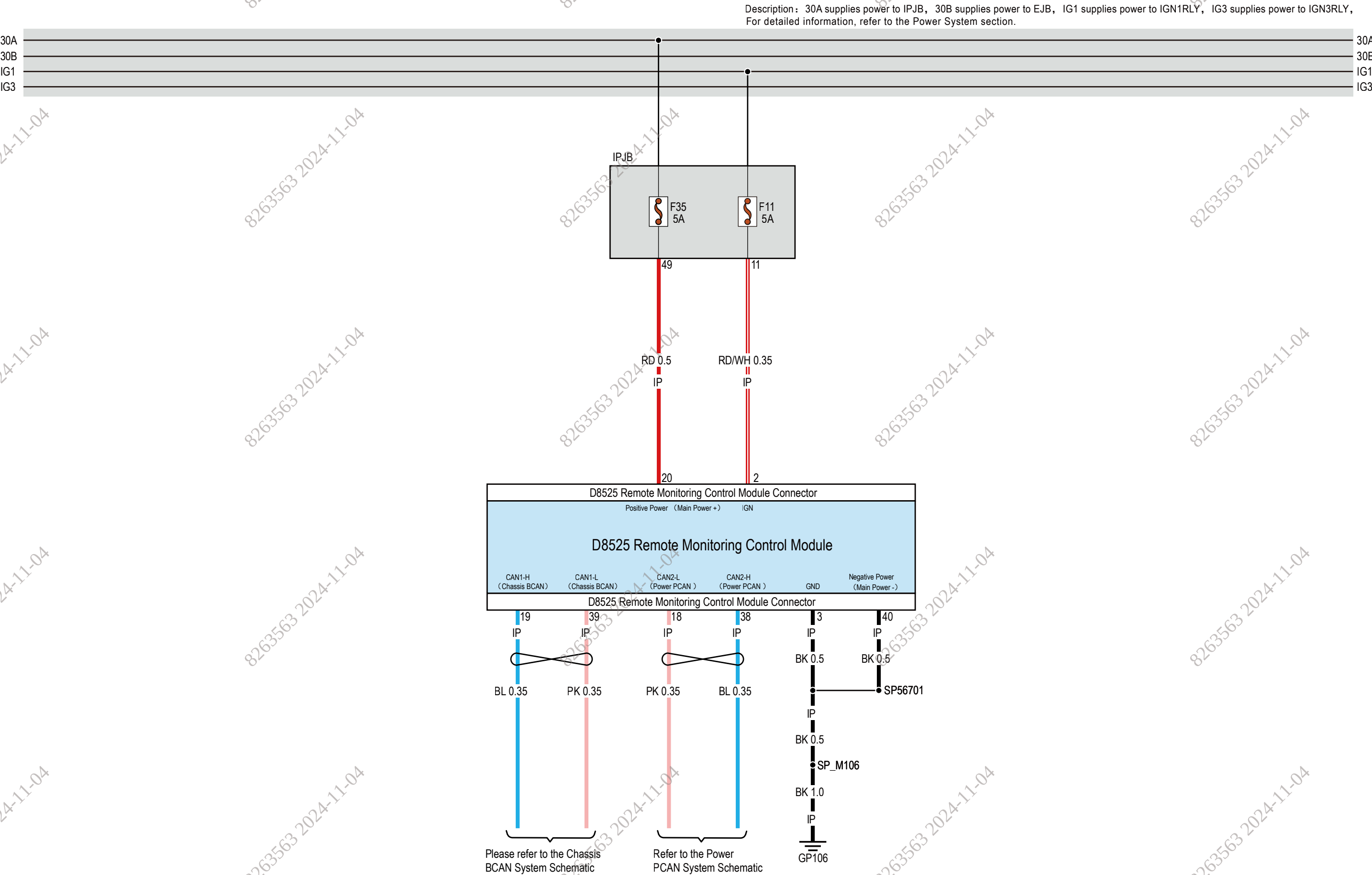
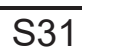


Diagram of a 4-wire cable with conductors 30A, 30B, IG1, and IG3. A vertical line with a dot at the top indicates a connection point for the 30A conductor.



[illegible]

Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



2024-11-04

Description: 30A supplies power to IPJB, 30B supplies power to IPJB.
For detailed information, refer to the Power System section.

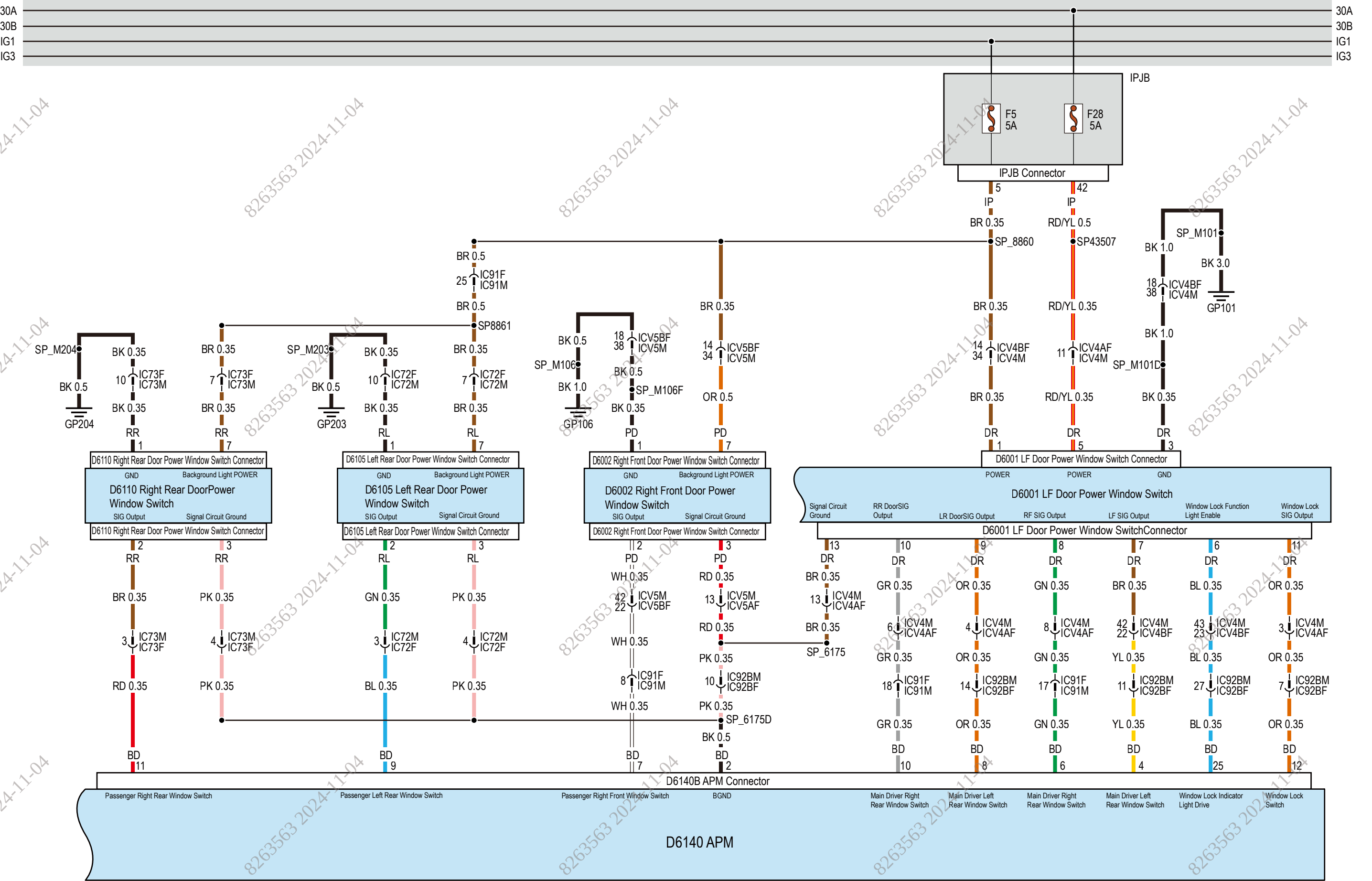


Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



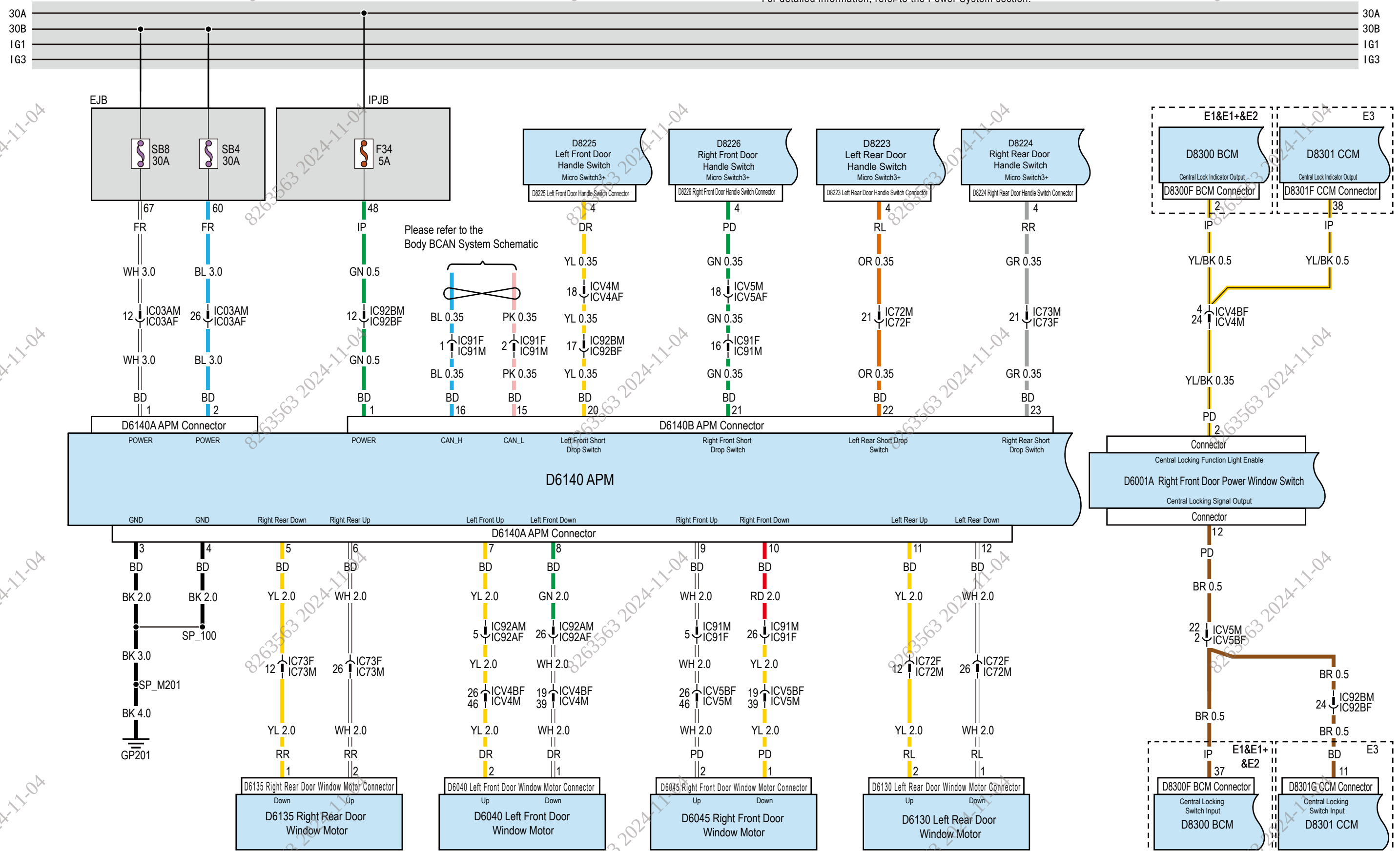
Anti-pinch Window Control Schematic

Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY,
For detailed information, refer to the Power System section.



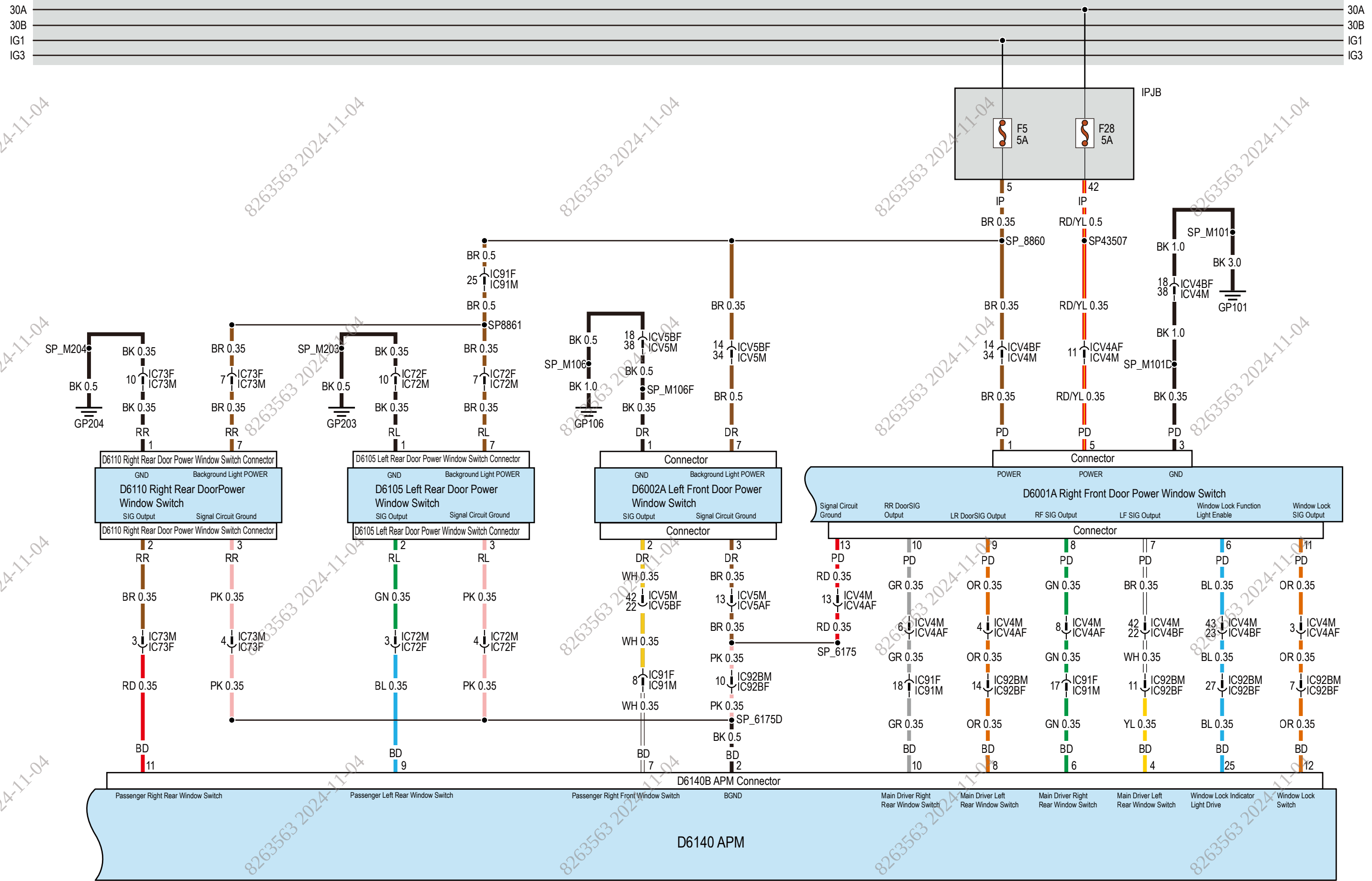
Anti-pinch Window Control (RHD)Schematic

Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY,
For detailed information, refer to the Power System section.



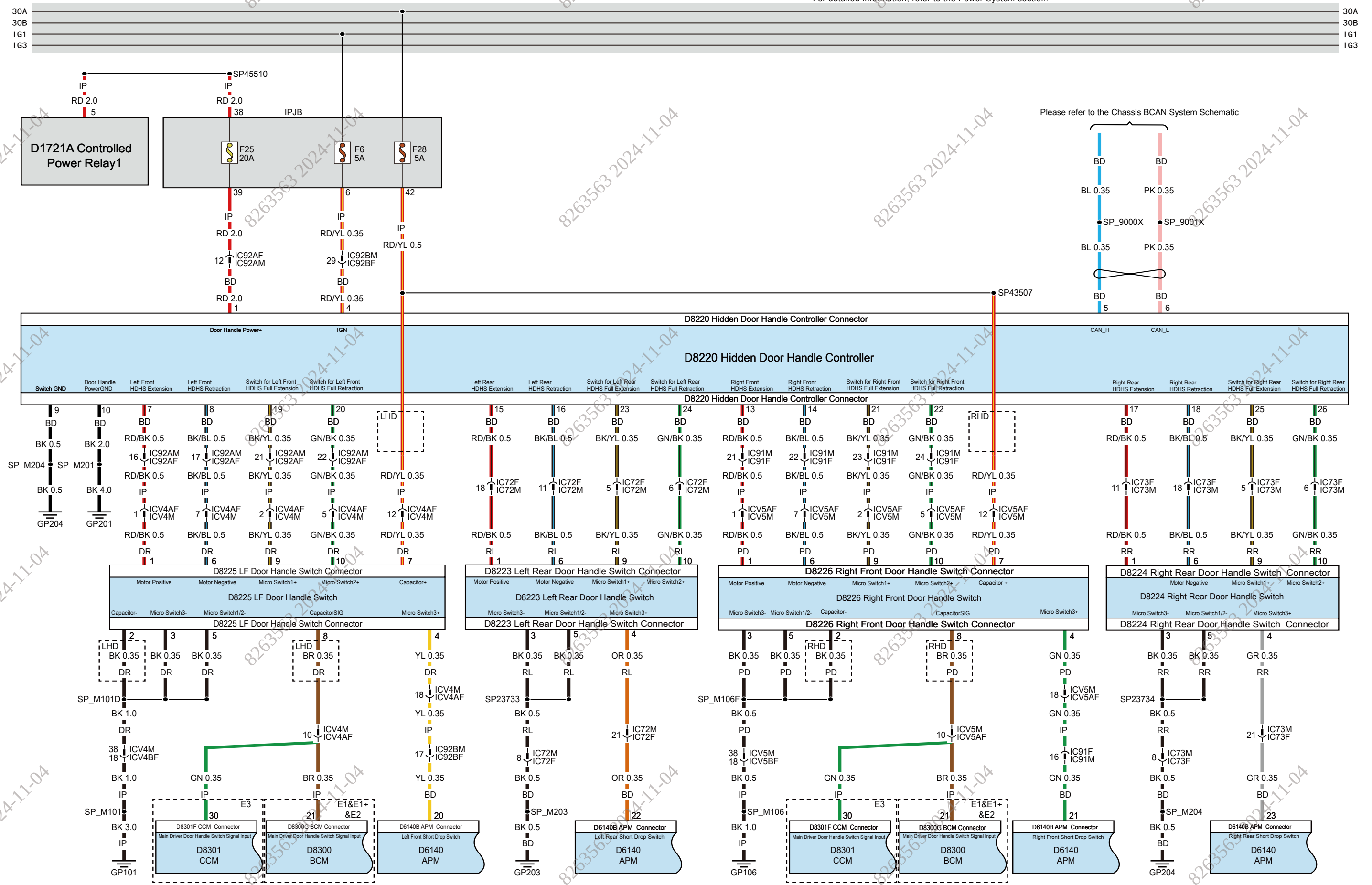
Anti-pinch Window Control (RHD)Schematic

Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.

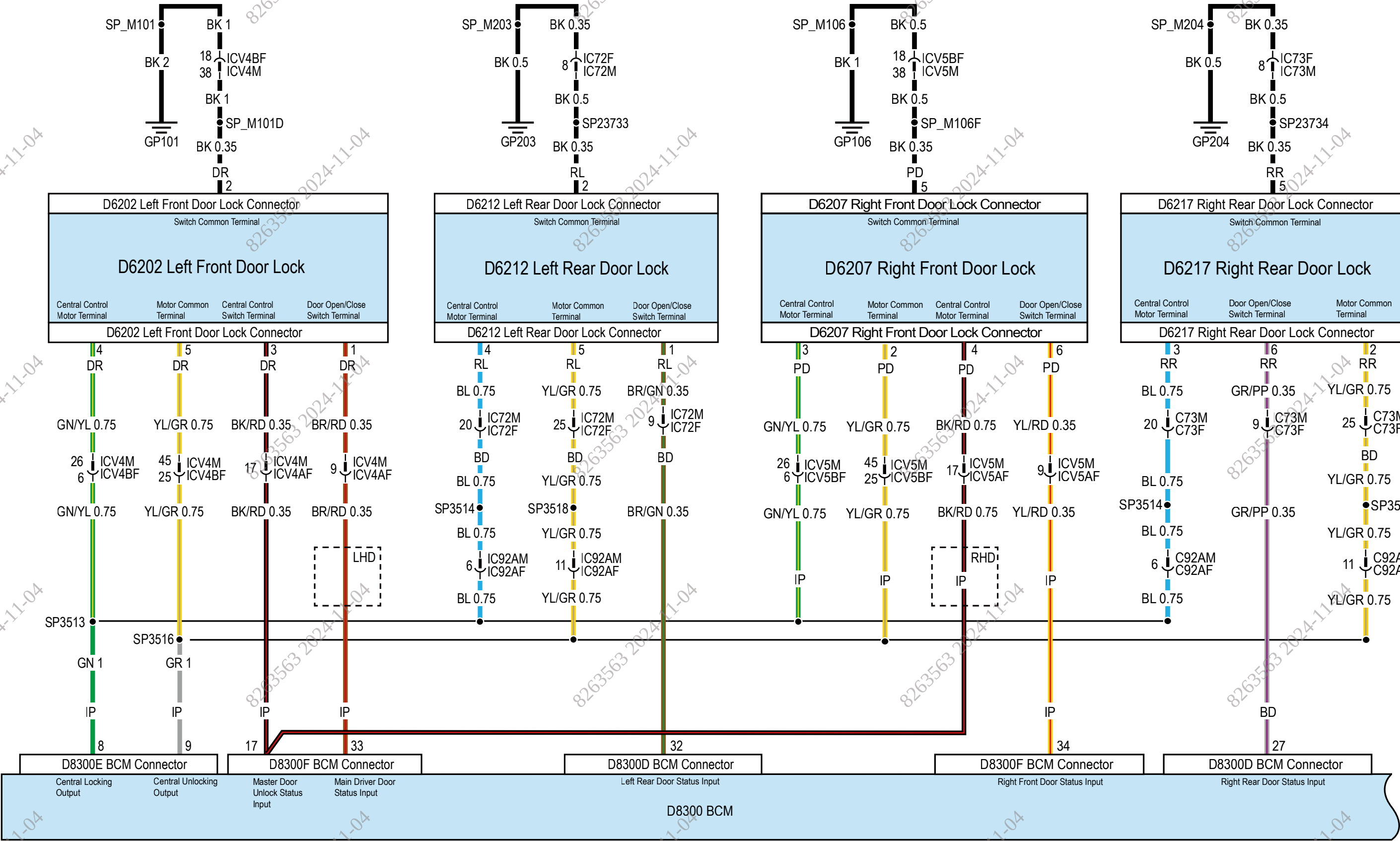


Hidden Door Handle Schematic

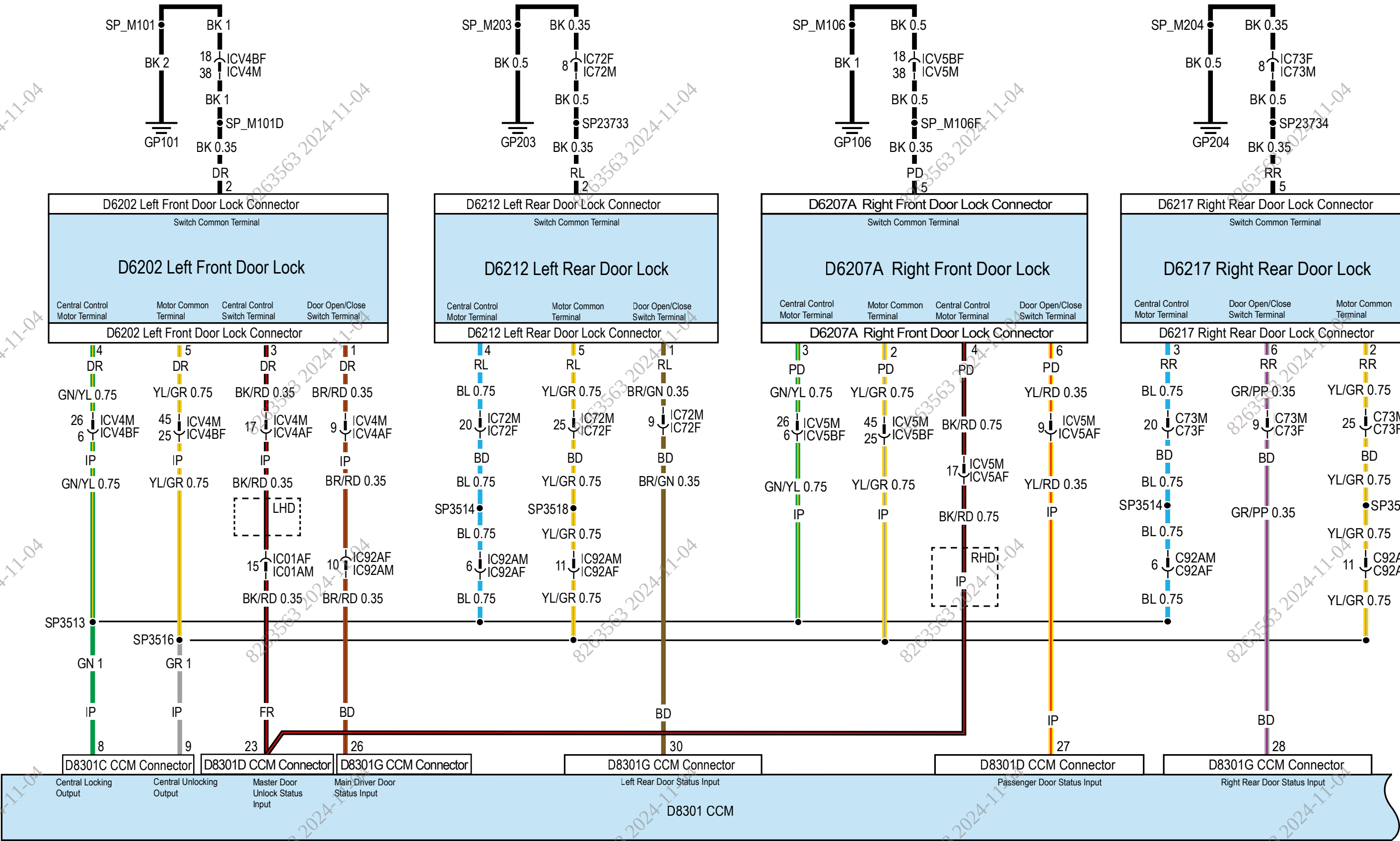
Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



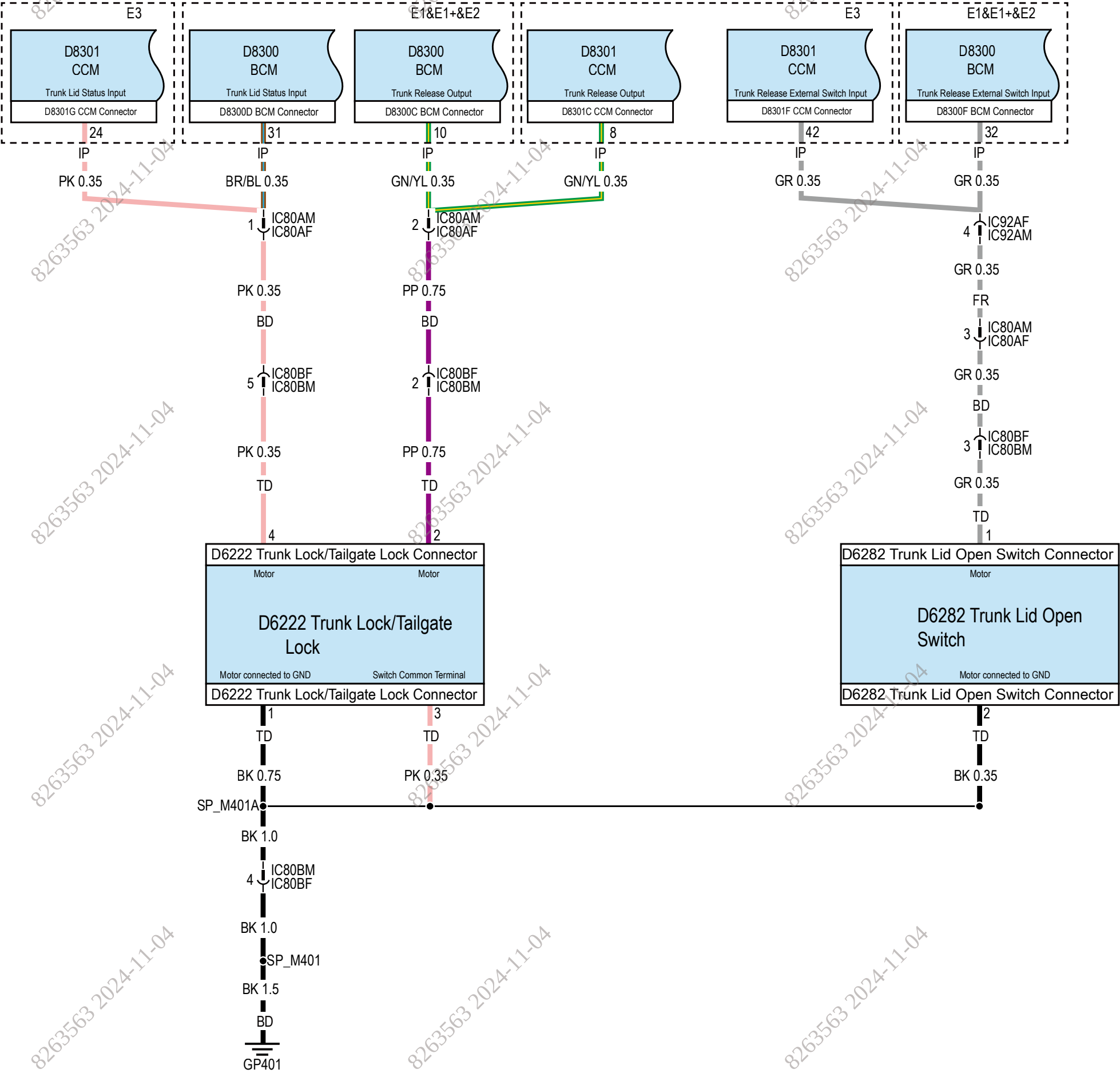
Electric Door Lock (E1&E1+&E2 Configuration)Schematic Diagram



Electric Door Lock (E3 Configuration)Schematic Diagram

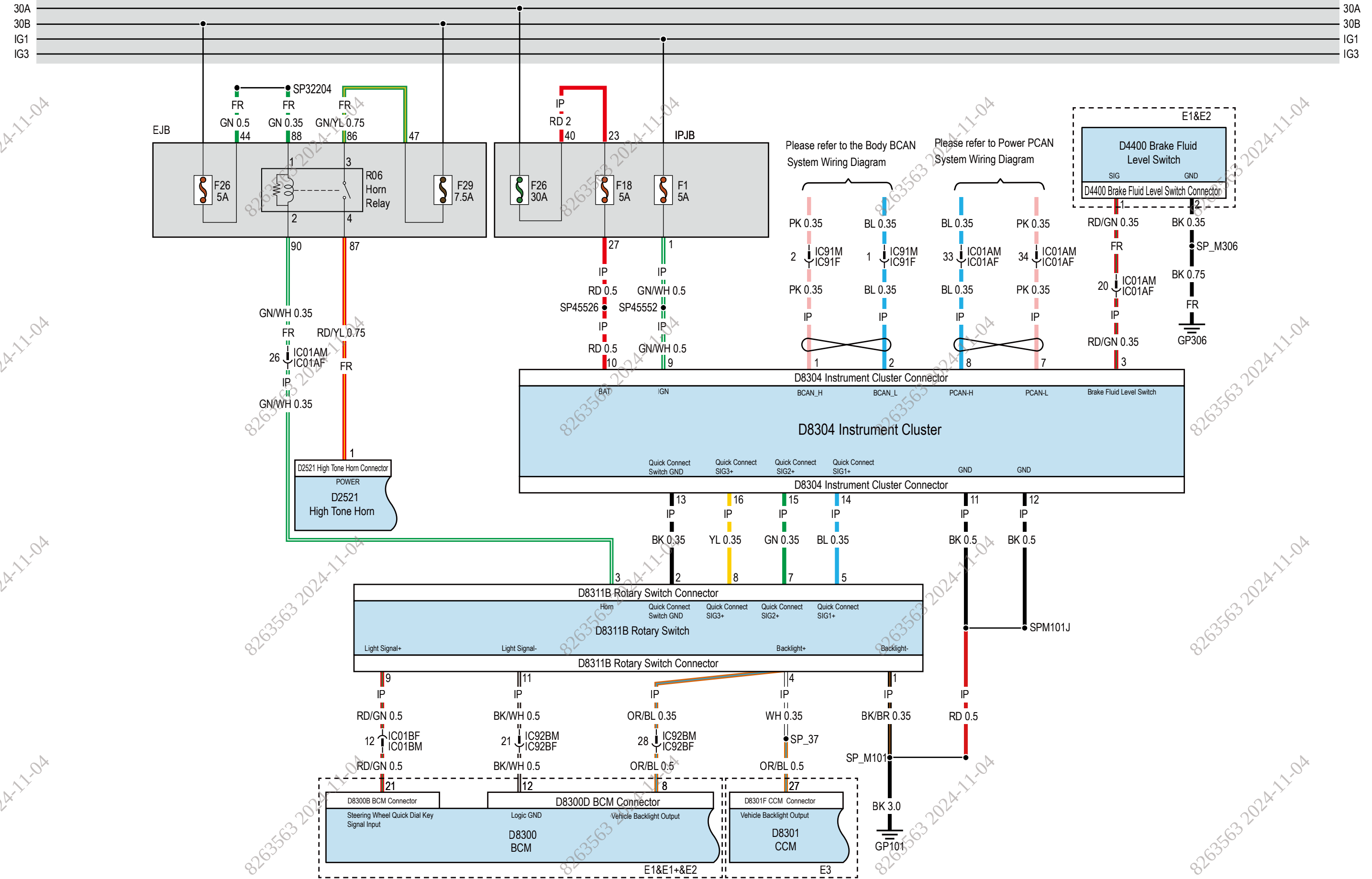


Power Tailgate Lock Schematic



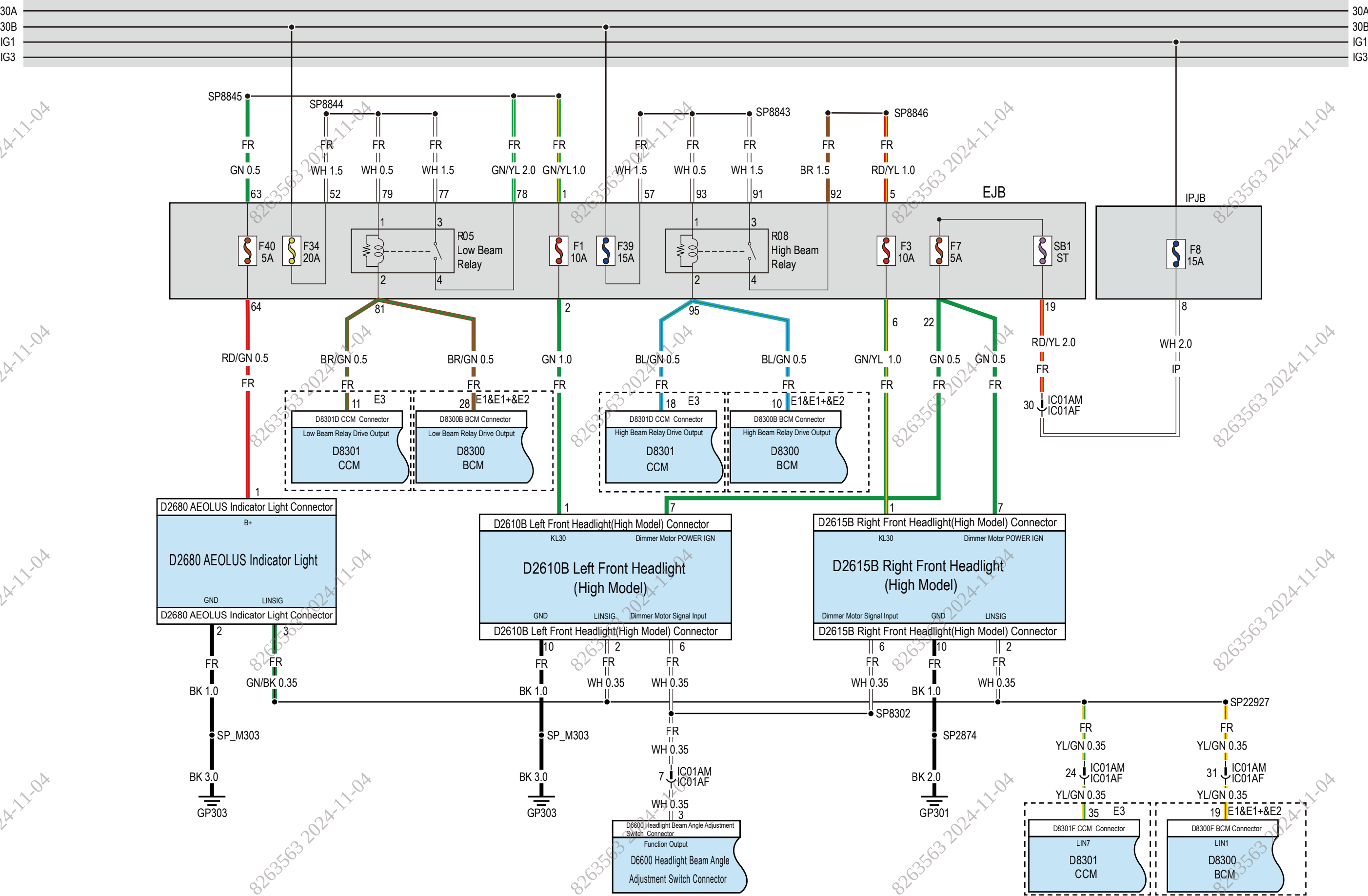
Instrument Cluster Schematic

Description : 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



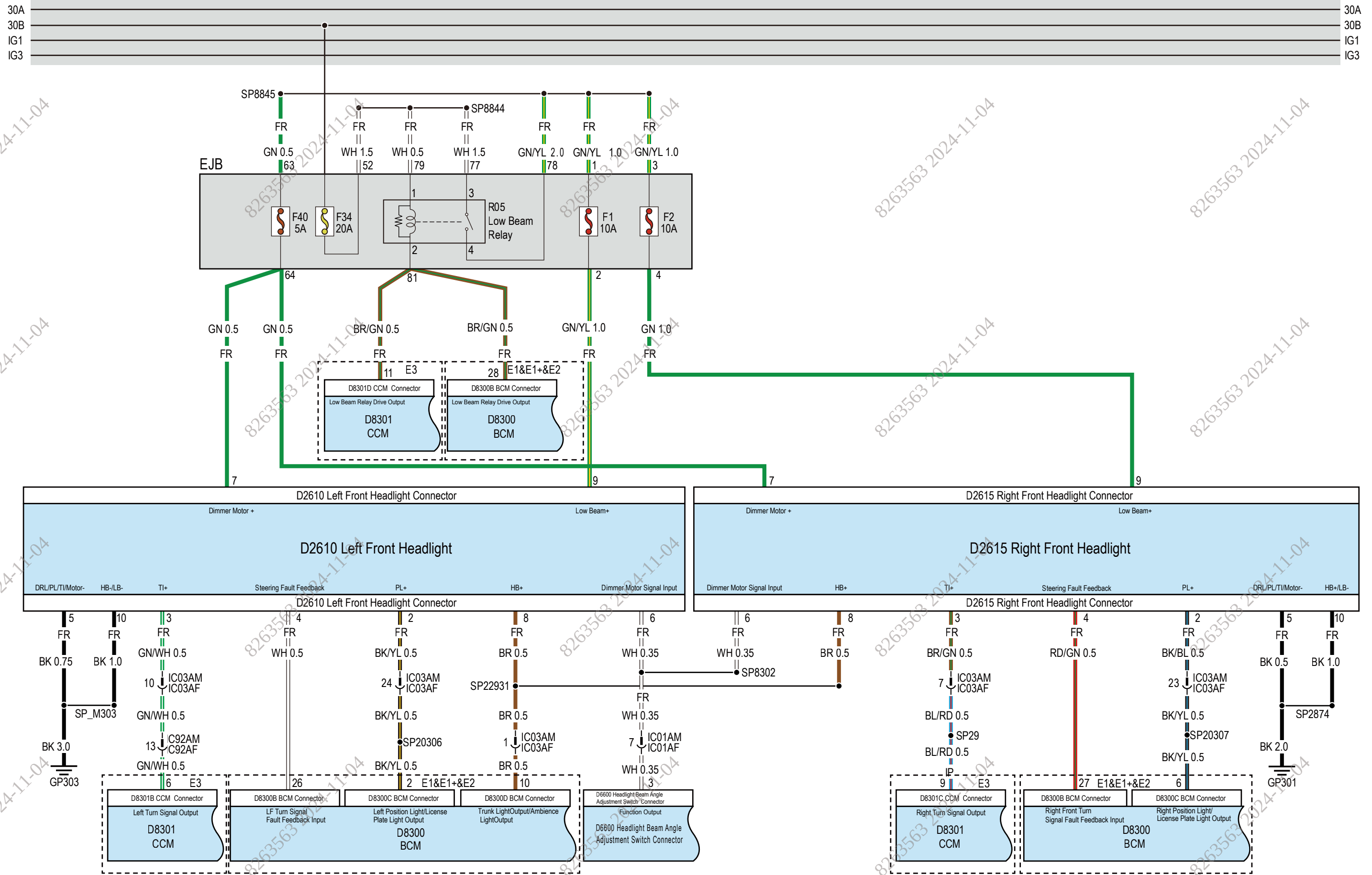
Headlight (E2&E3 configuration)Schematic Diagram

Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



Headlight (E1&E1+ configuration)Schematic Diagram

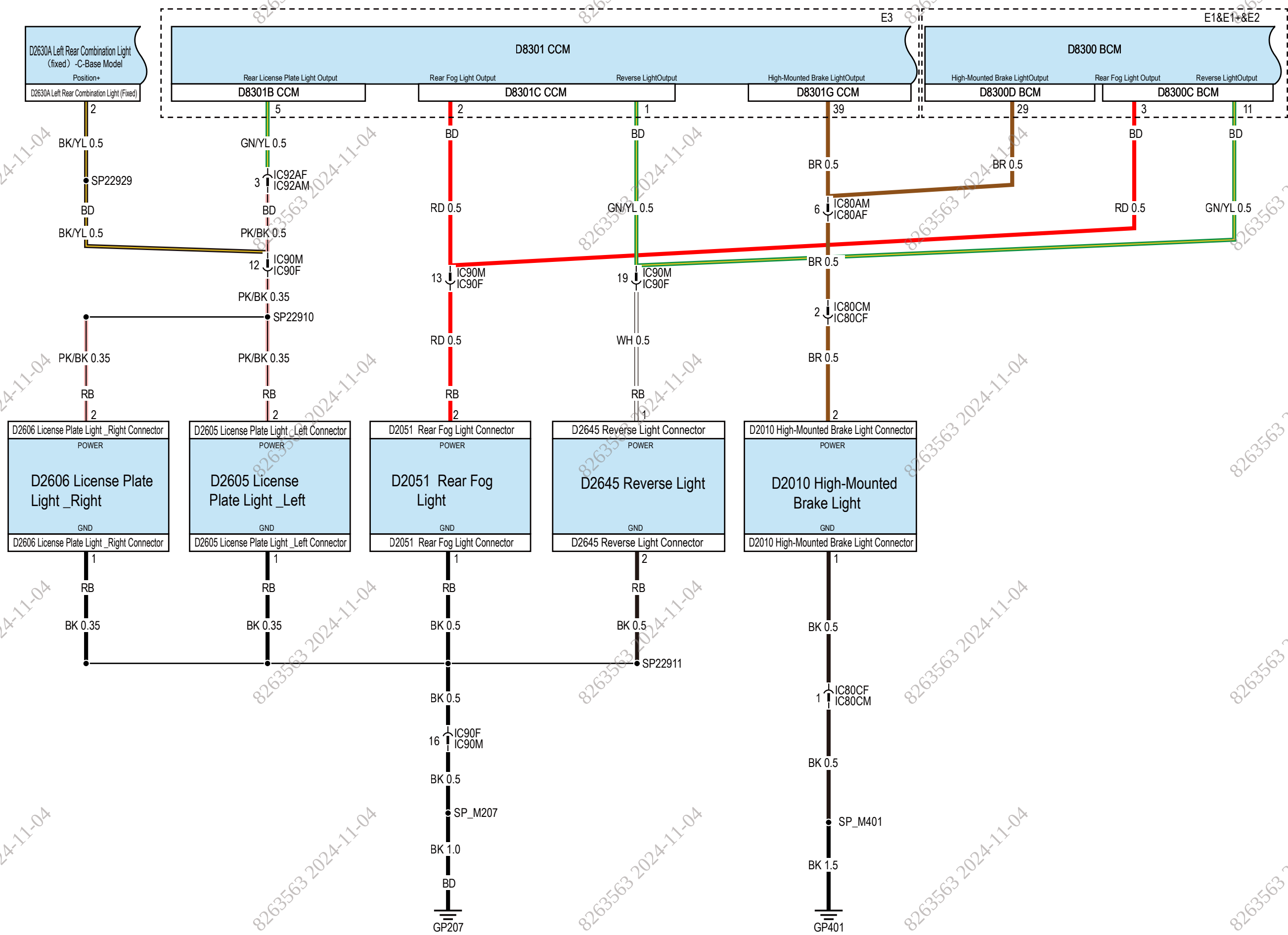
Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IG1NRLY, IG3 supplies power to IG3NRLY, For detailed information, refer to the Power System section.



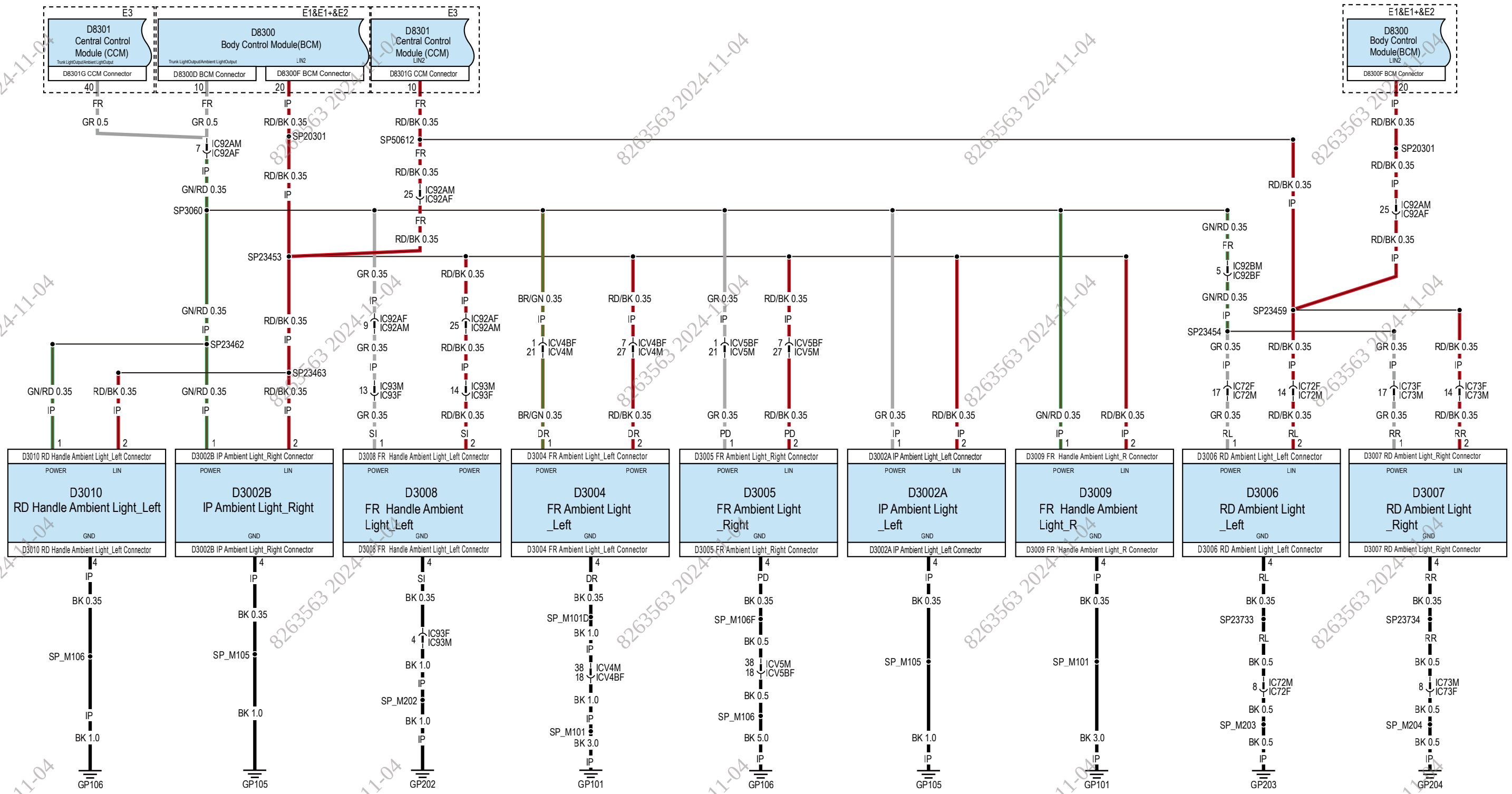
License Plate Light, Rear Fog Light, Reverse Light, Third Brake Light Schematic



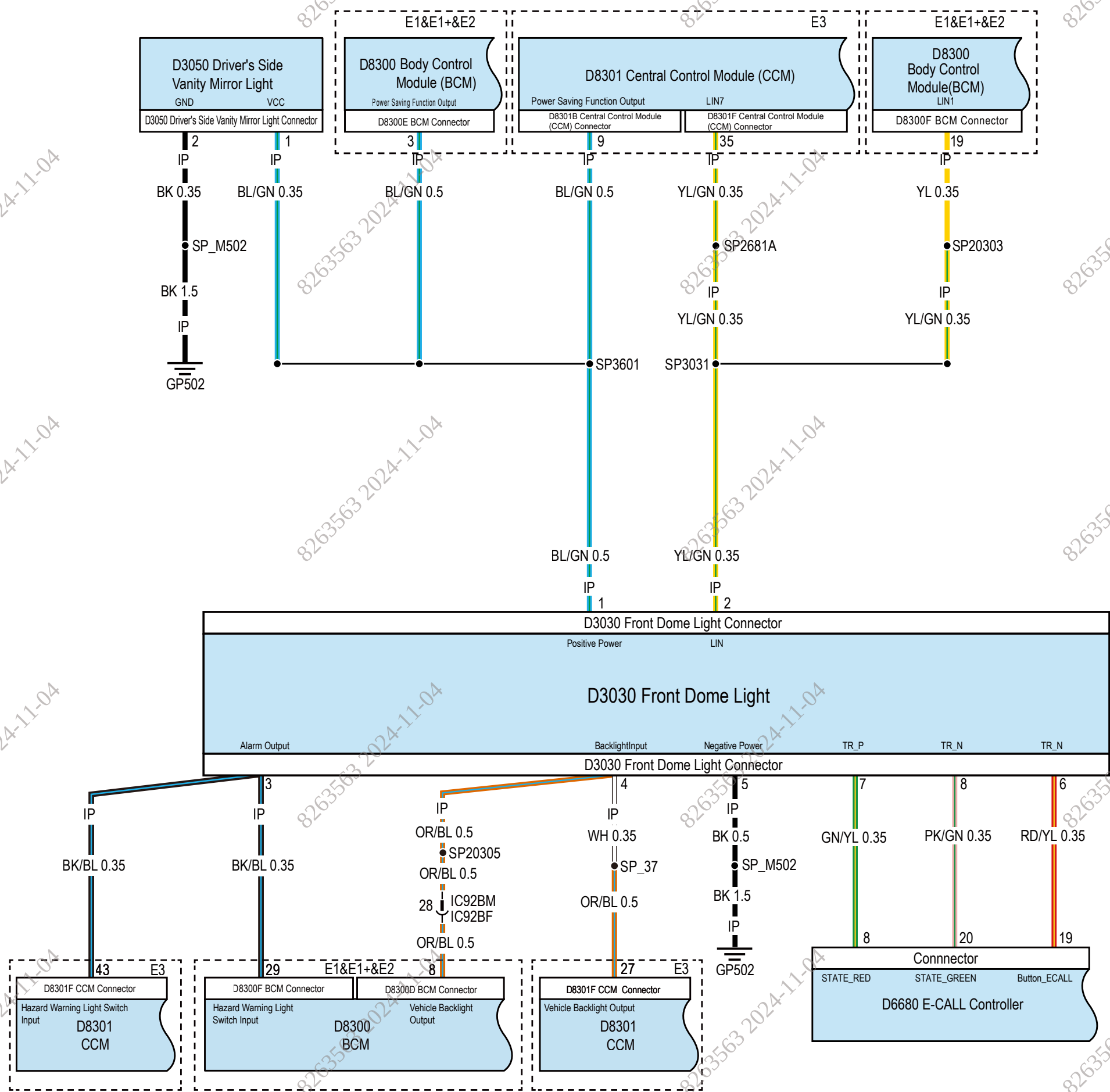
Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



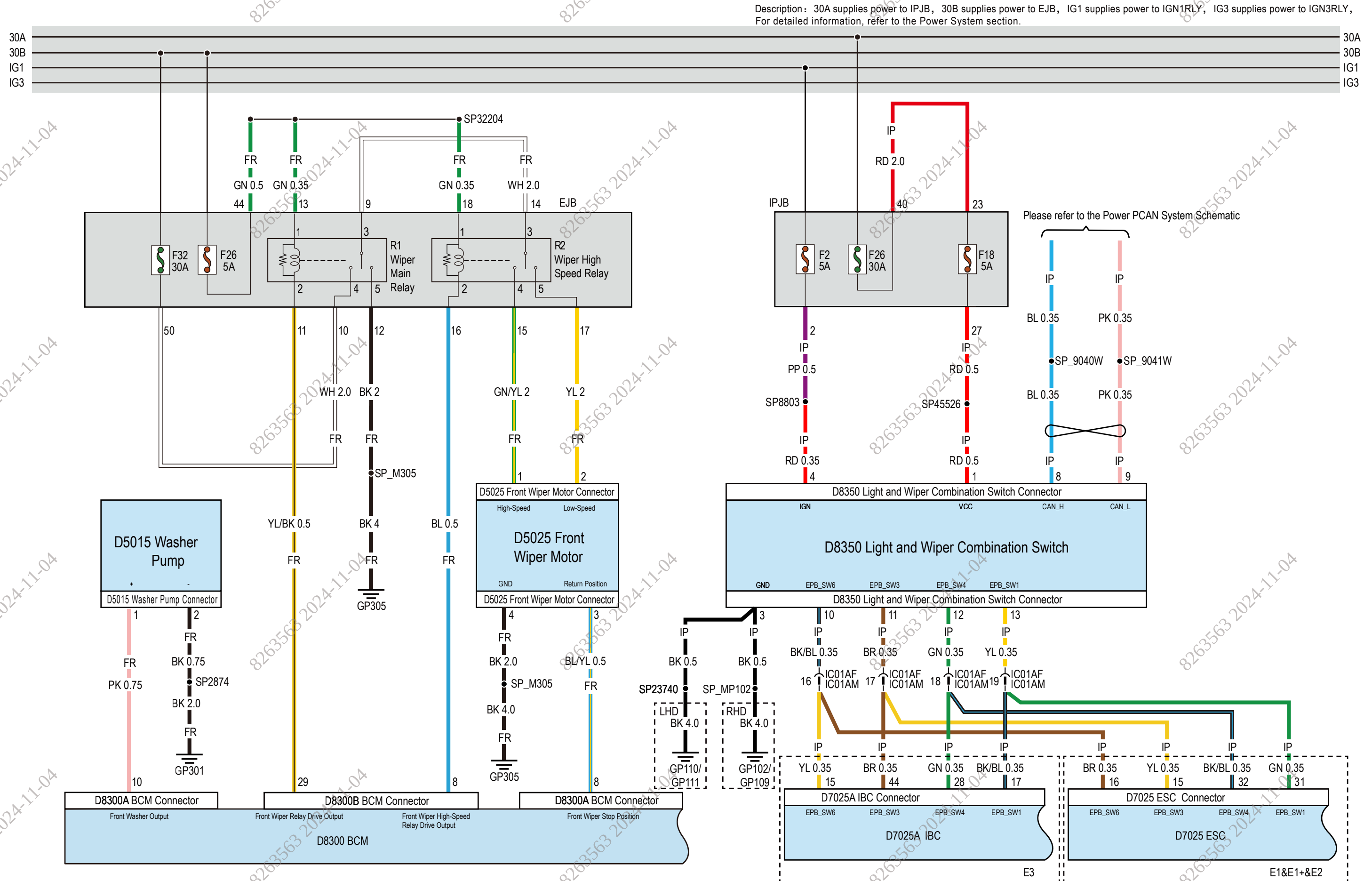
Ambient Lighting (E2 & E3 Configuration)Schematic Diagram



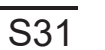
Front Dome Light Schematic



Wiper and Washer Pump (E1 & E1+ & E2 Configuration) Schematic Diagram



Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.

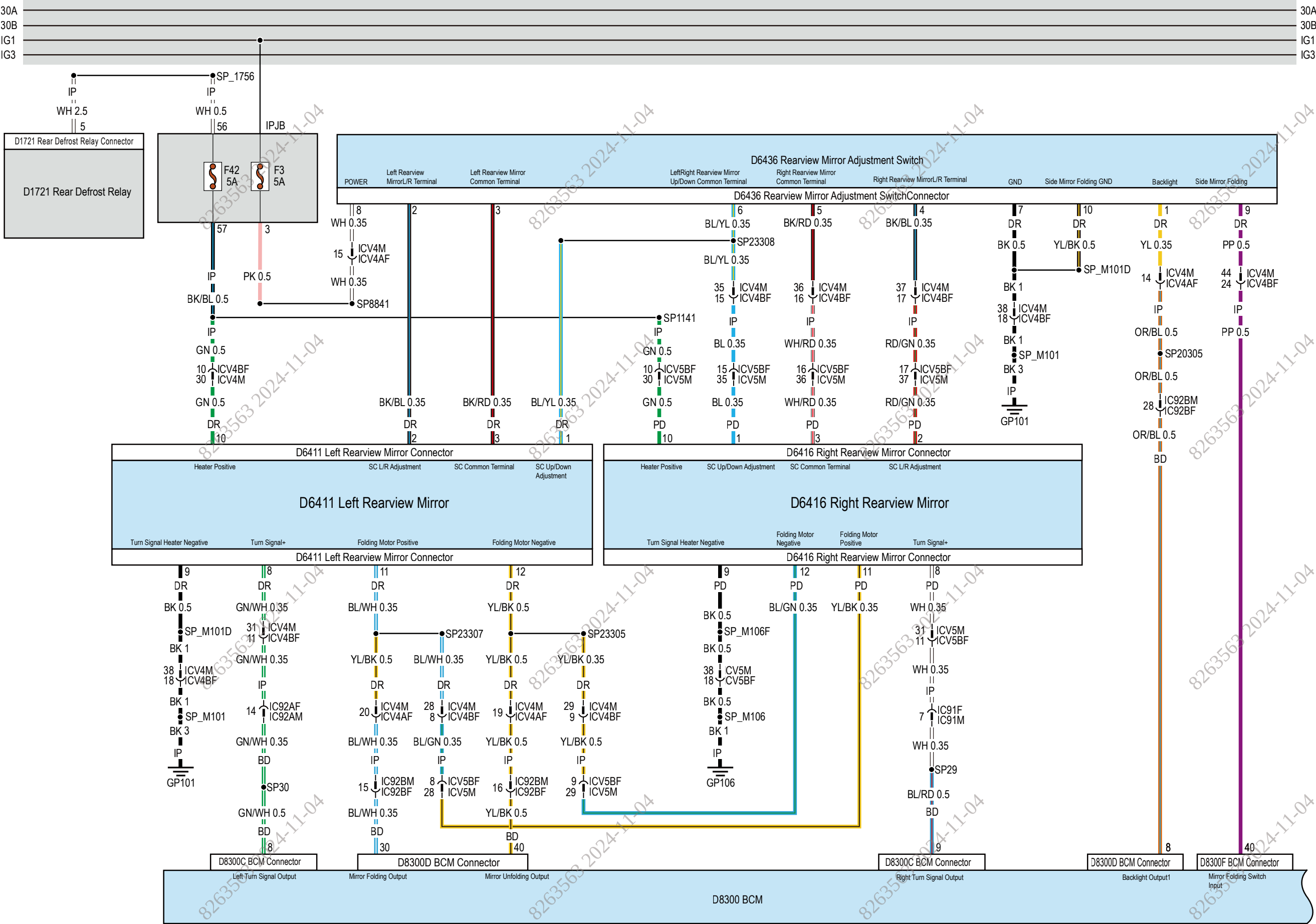


Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IG1RLY, IG3 supplies power to IG3RLY, For detailed information, refer to the Power System section.



Electric Rearview Mirror (LHD Vehicle E1 & E1+ & E2 Configuration)Schematic Diagram

Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.

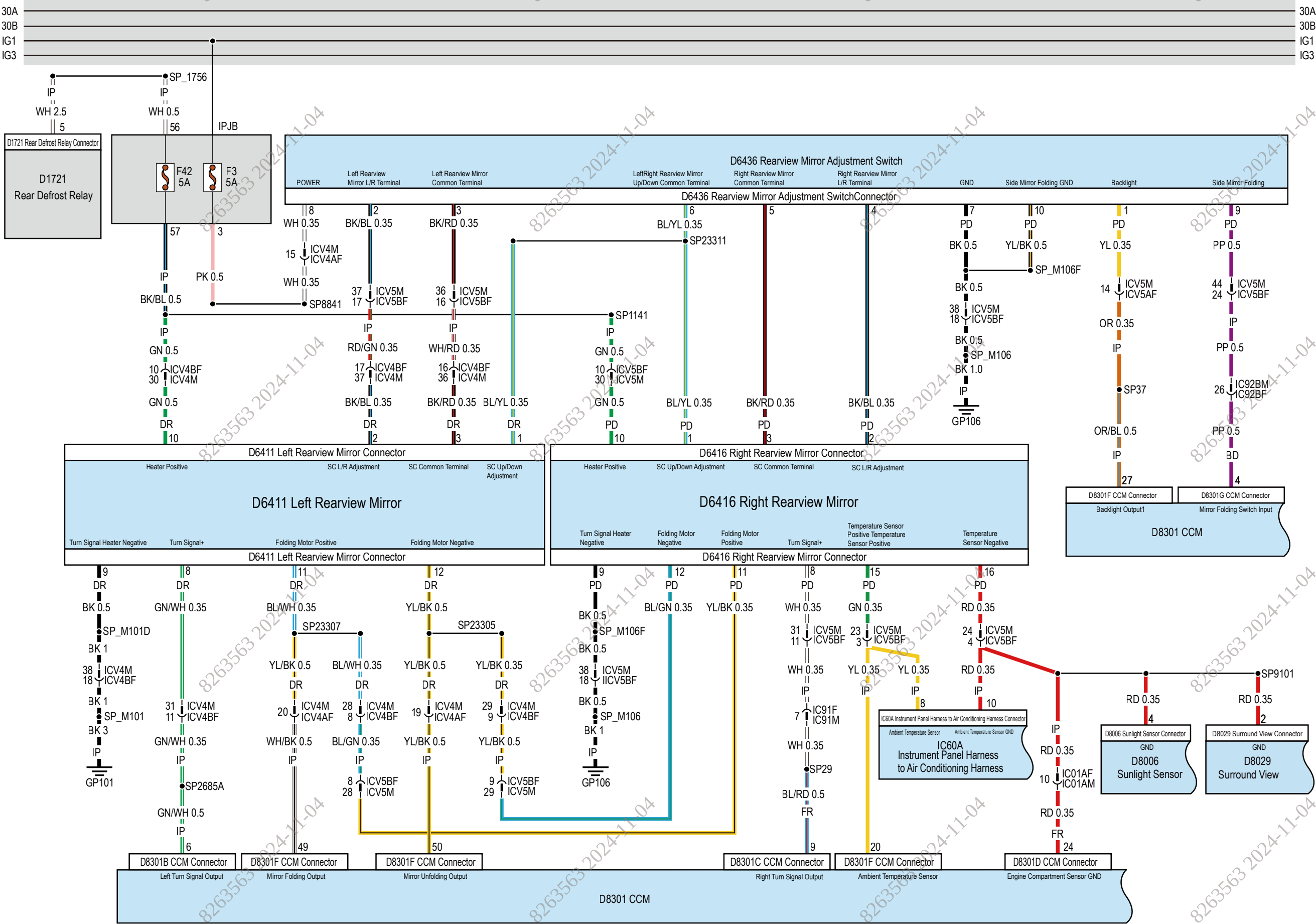


Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



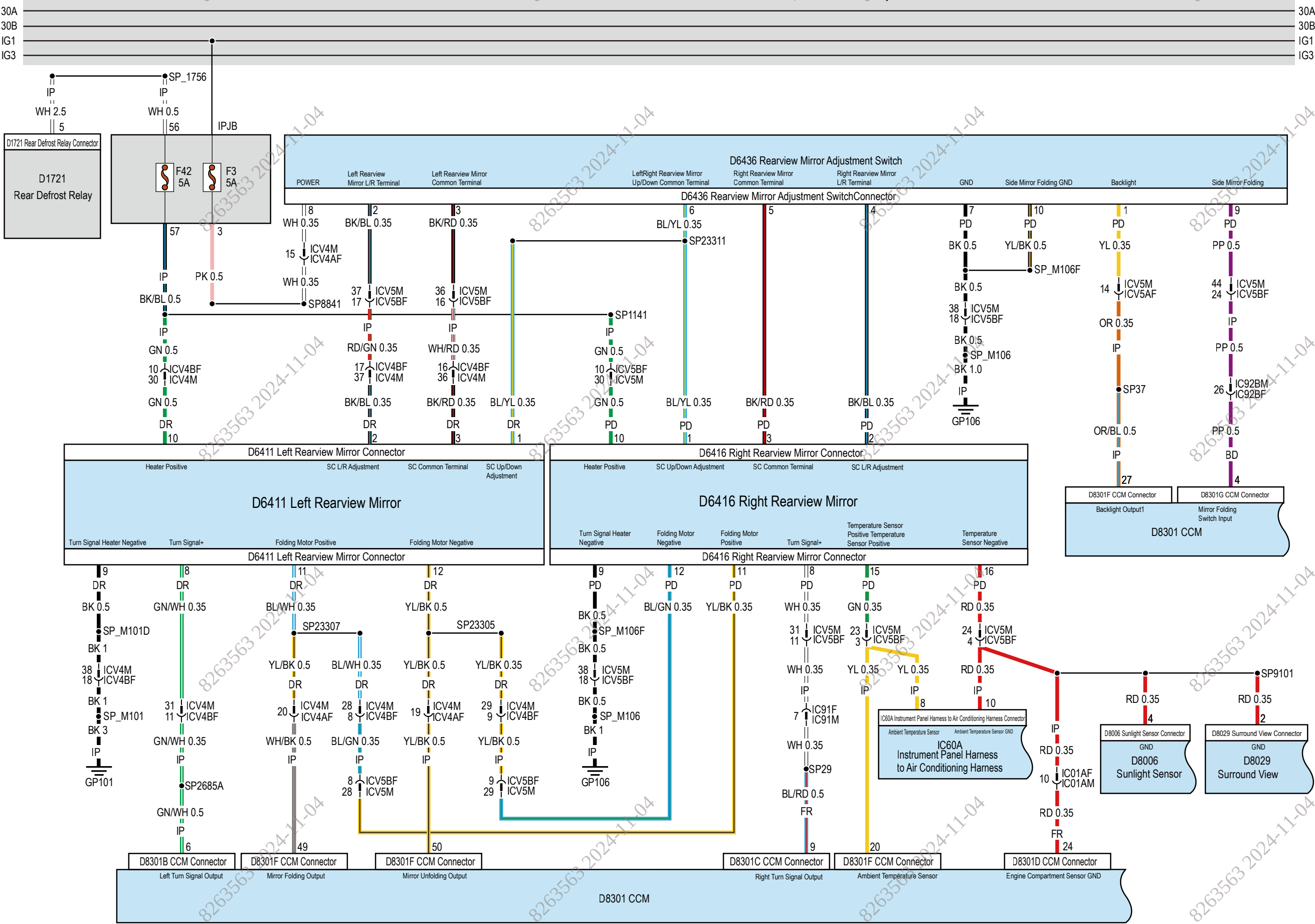
Electric Rearview Mirror (LHD Vehicle E3 Configuration)Schematic Diagram

Description : 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



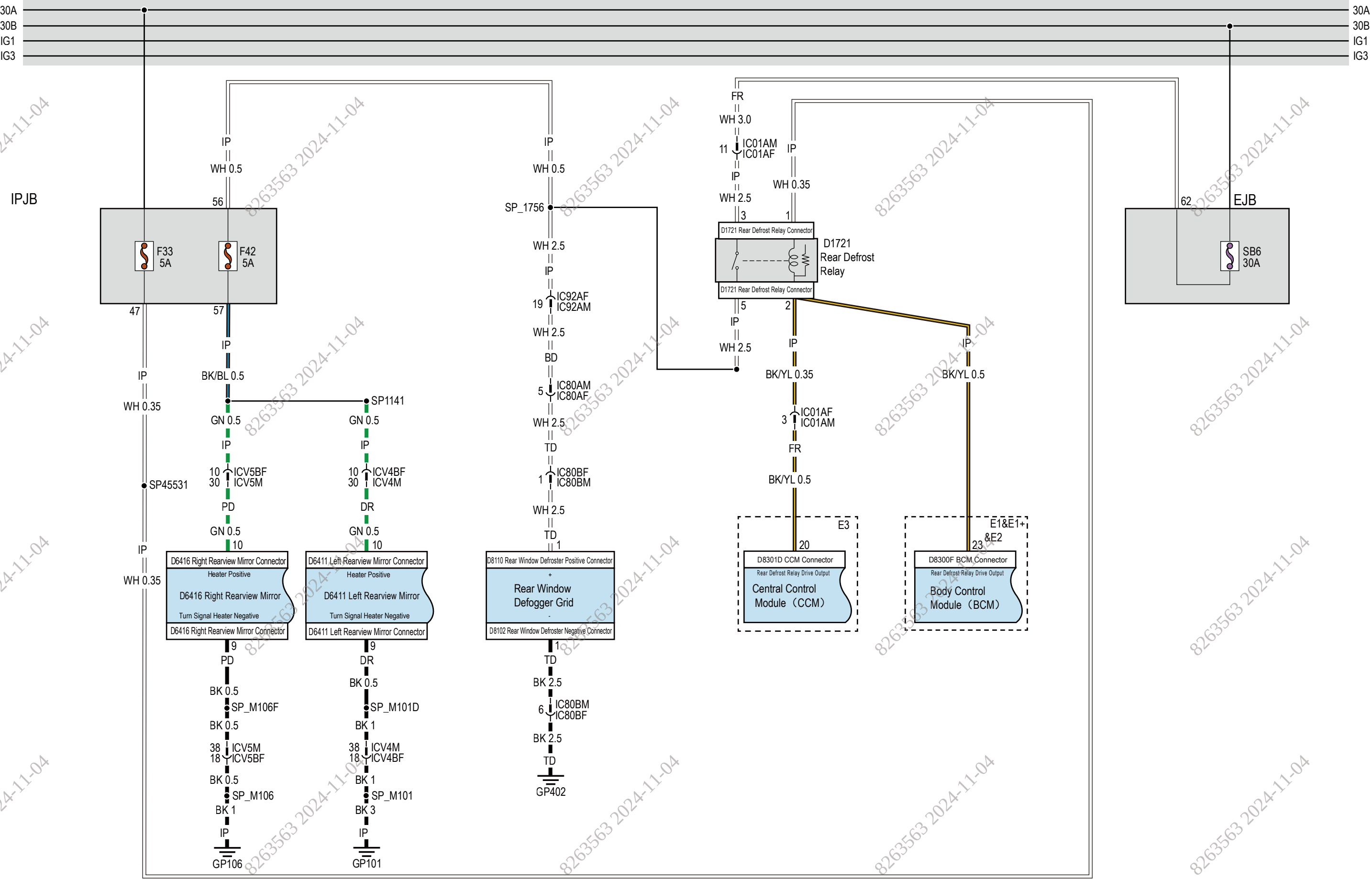
Electric Rearview Mirror (RHD Vehicle E3 Configuration)Schematic Diagram

Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



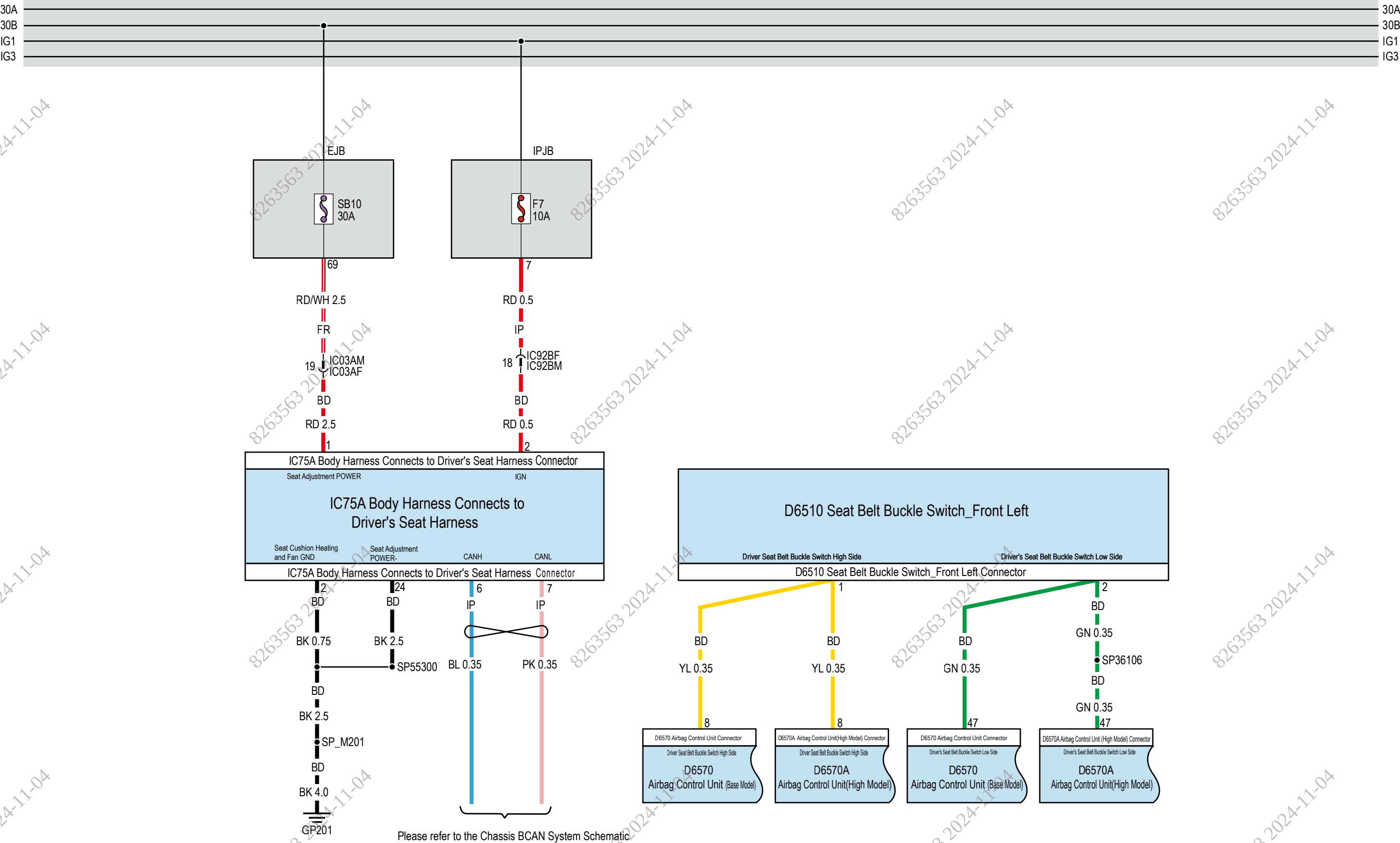
Rear Window and Mirror Heater Schematic

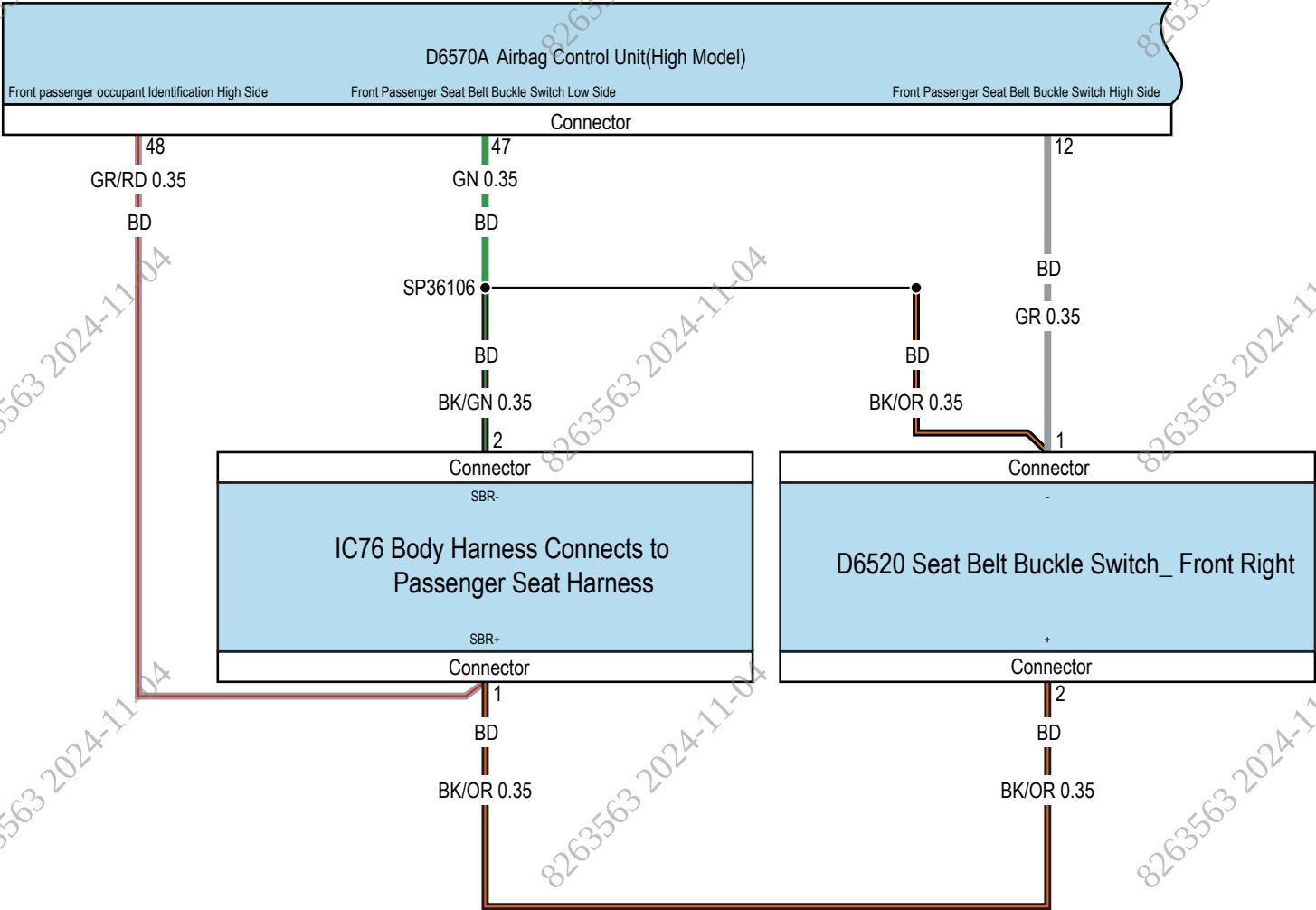
Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



Driver's Seat Schematic

Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.





Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.

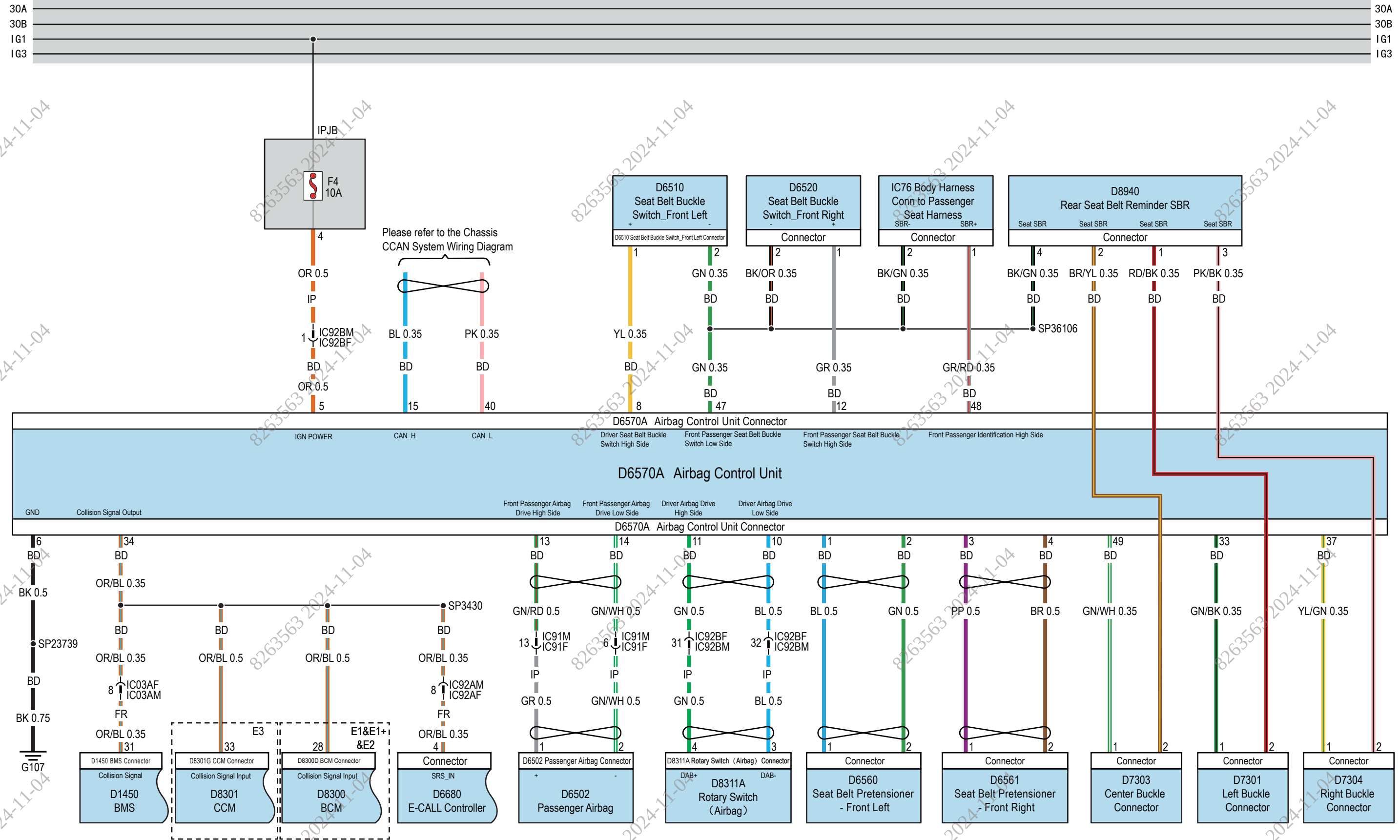


Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IG1RLY, IG3 supplies power to IG3RLY, For detailed information, refer to the Power System section.



Airbag (High Model) Schematic Diagram

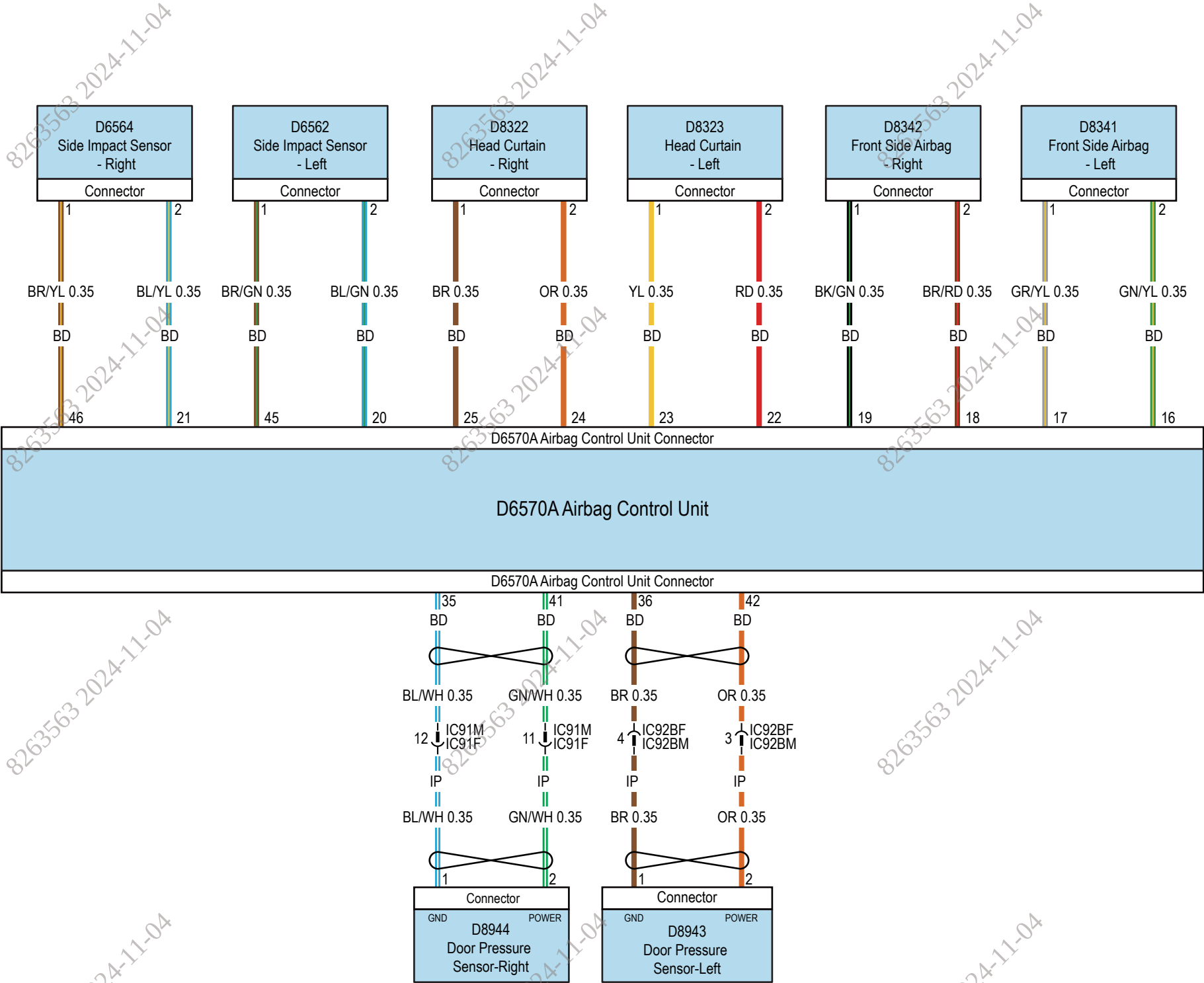
Description : 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



Airbag (High Model)Schematic Diagram

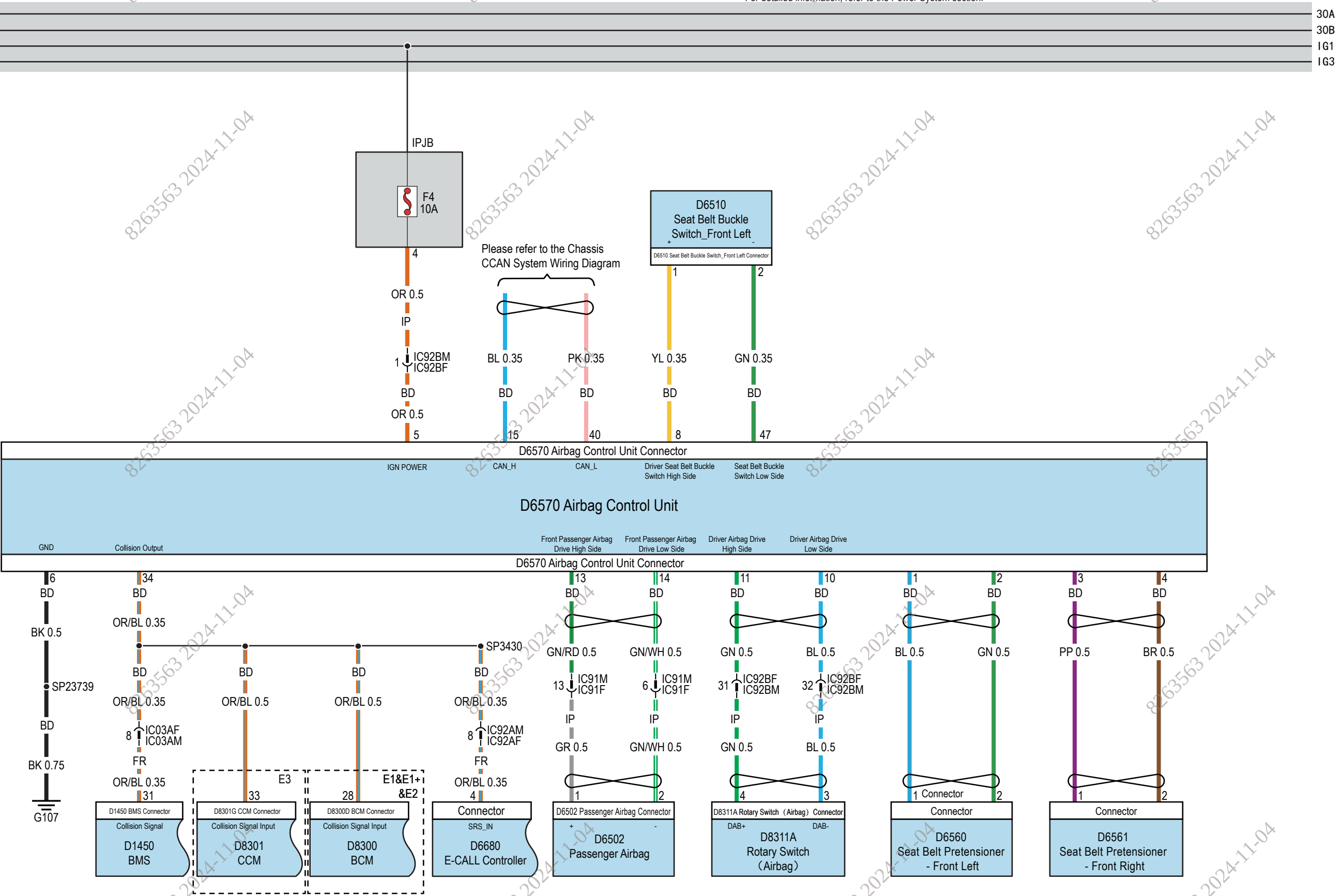
Description : 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.

30A	30A
30B	30B
IG1	IG1
IG3	IG3



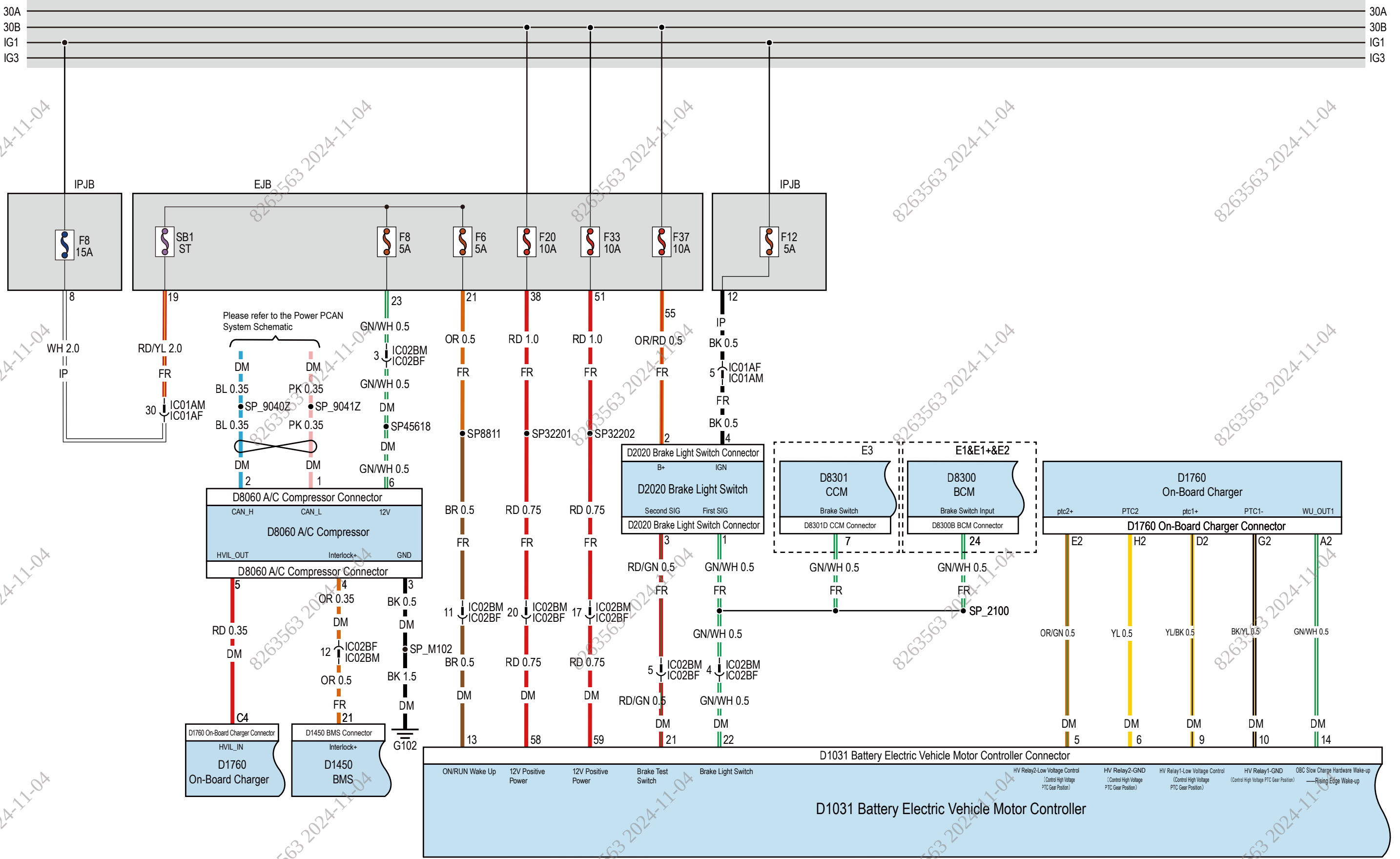
Airbag (Base Model)Schematic Diagram

Description : 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



Power Domain Controller Schematic

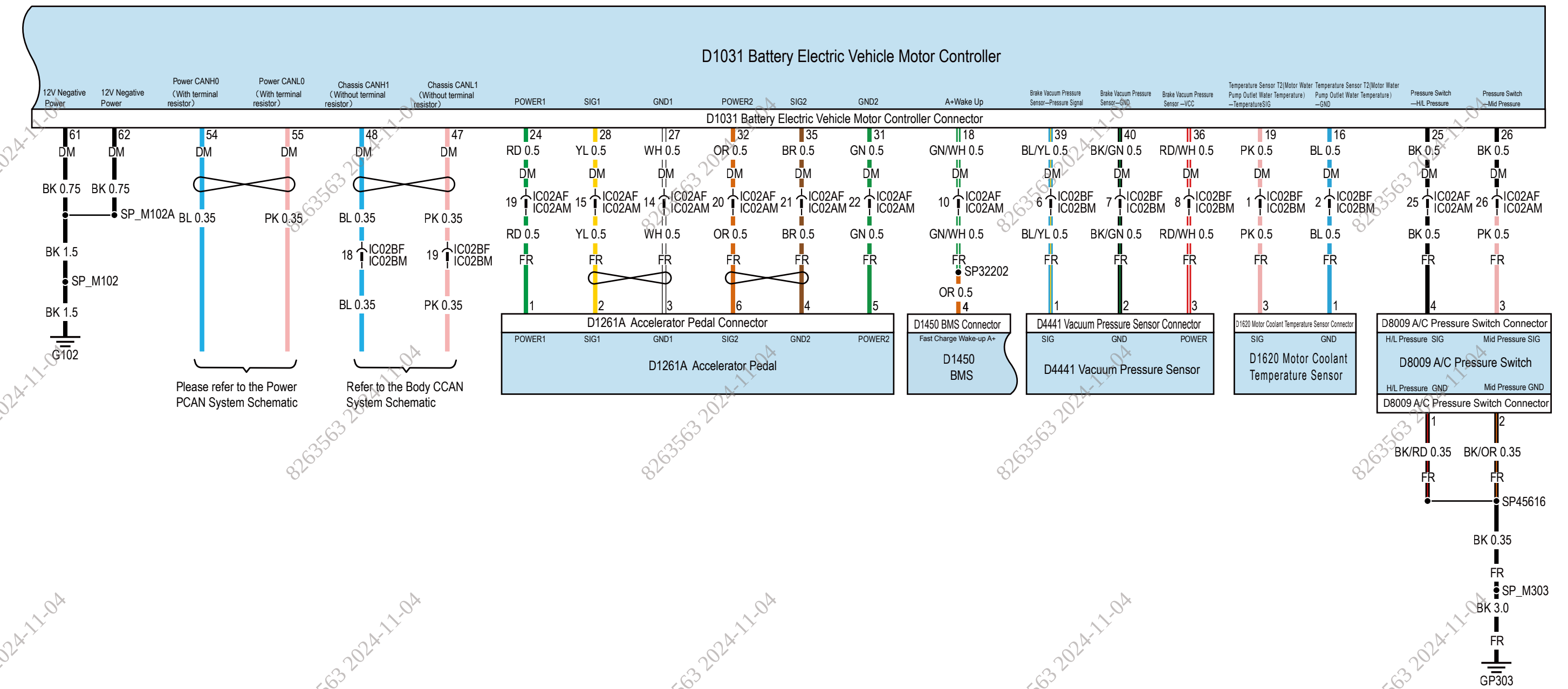
Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.

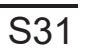


Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGNTRLY, IG3 supplies power to IGNT3RLY, For detailed information, refer to the Power System section.



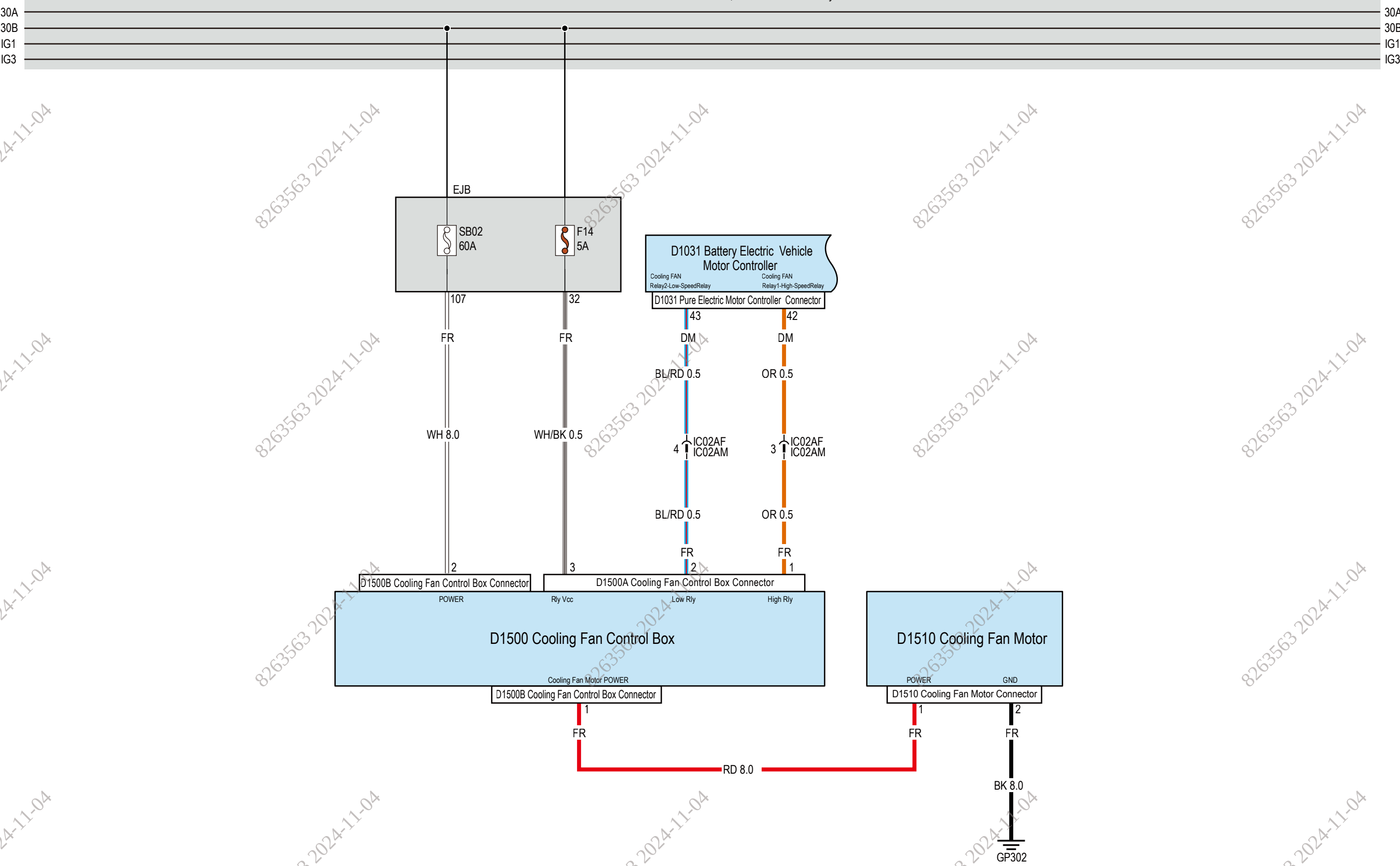
30A
30B
IG1
IG3

30A
30B
IG1
IG3



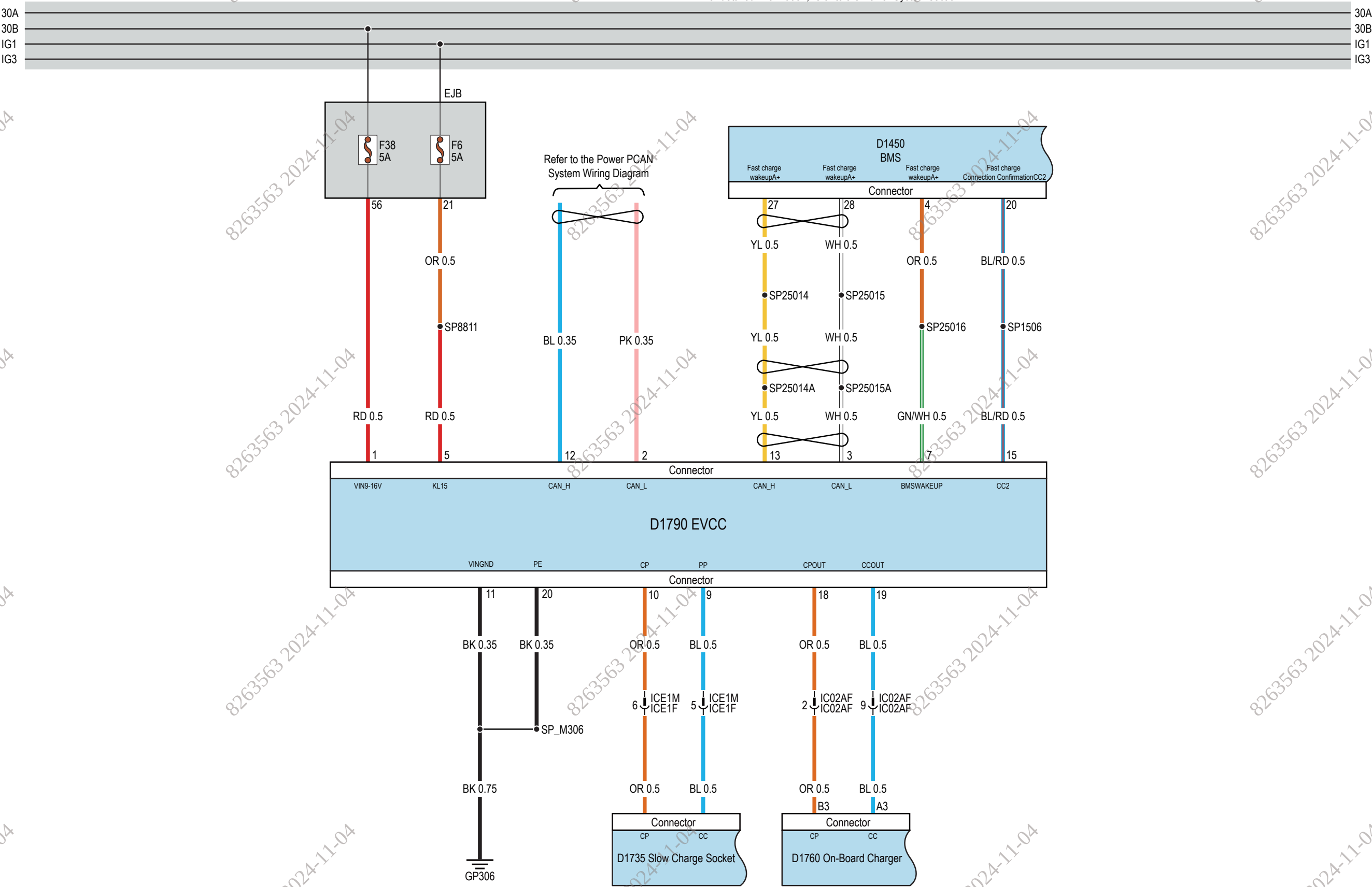
Cooling Fan Schematic

Description : 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



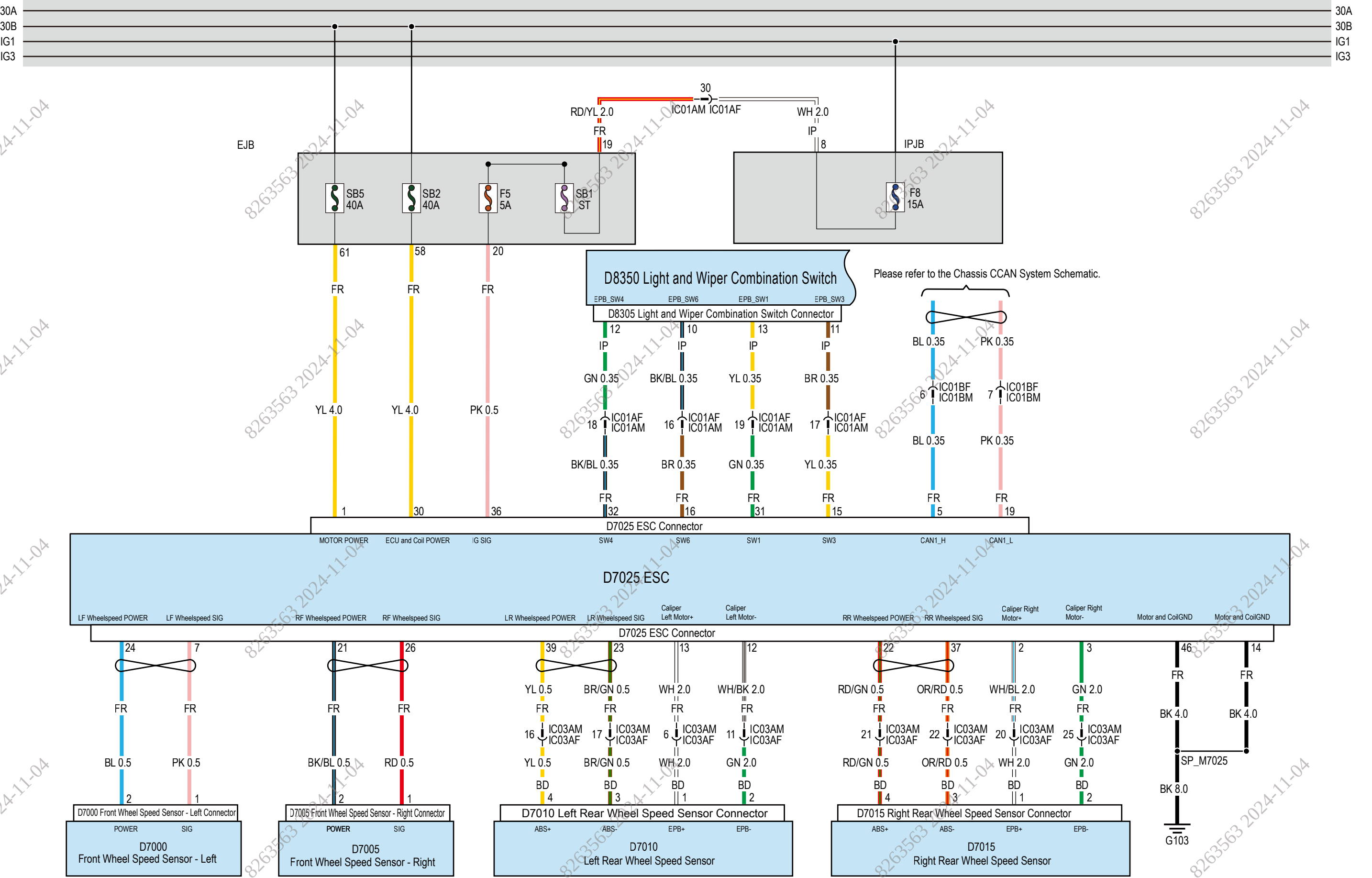
EVCC Schematic

Description : 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



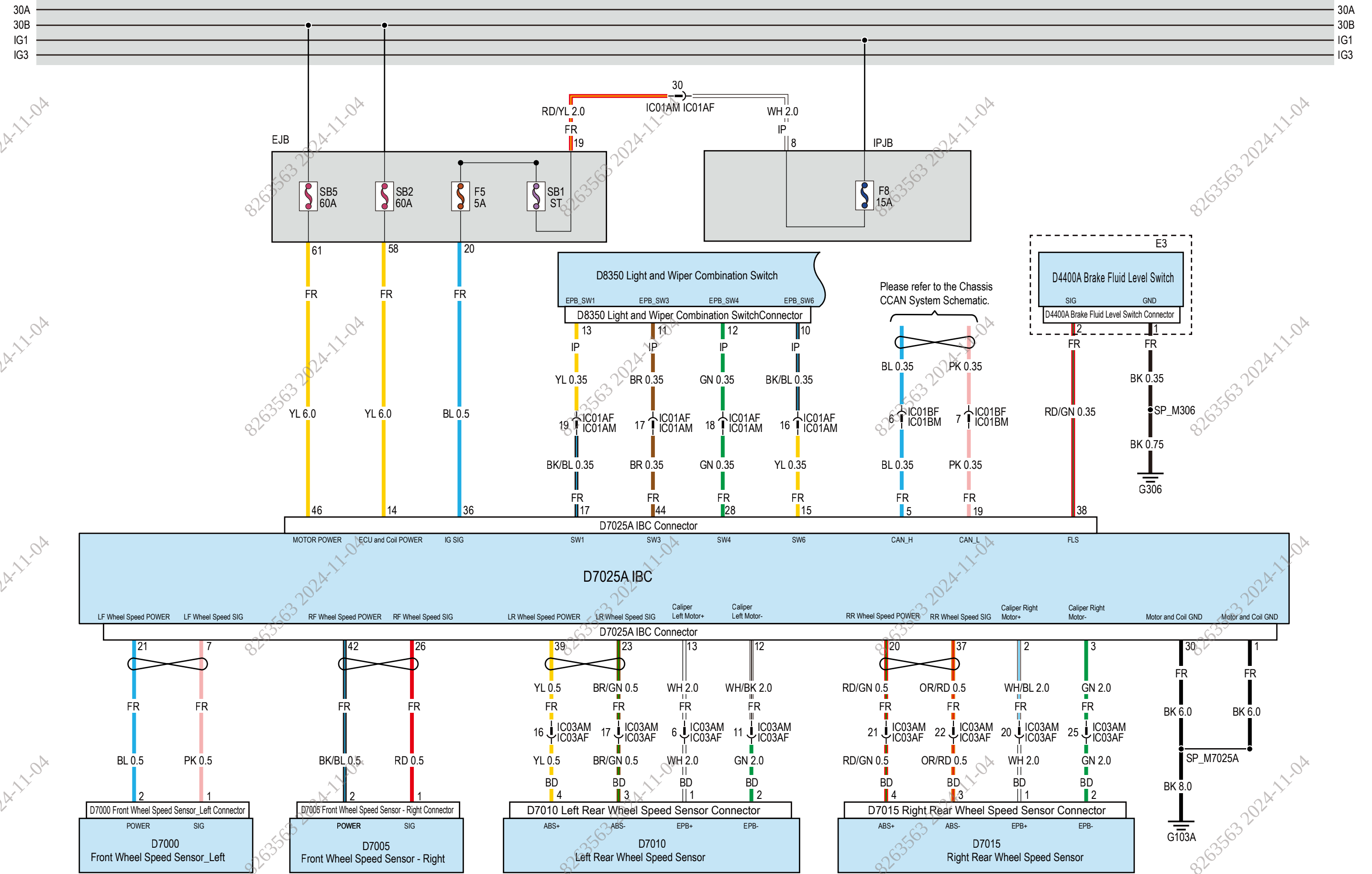
ESC(E1&E1+&E2 Configuration)Schematic Diagram

Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



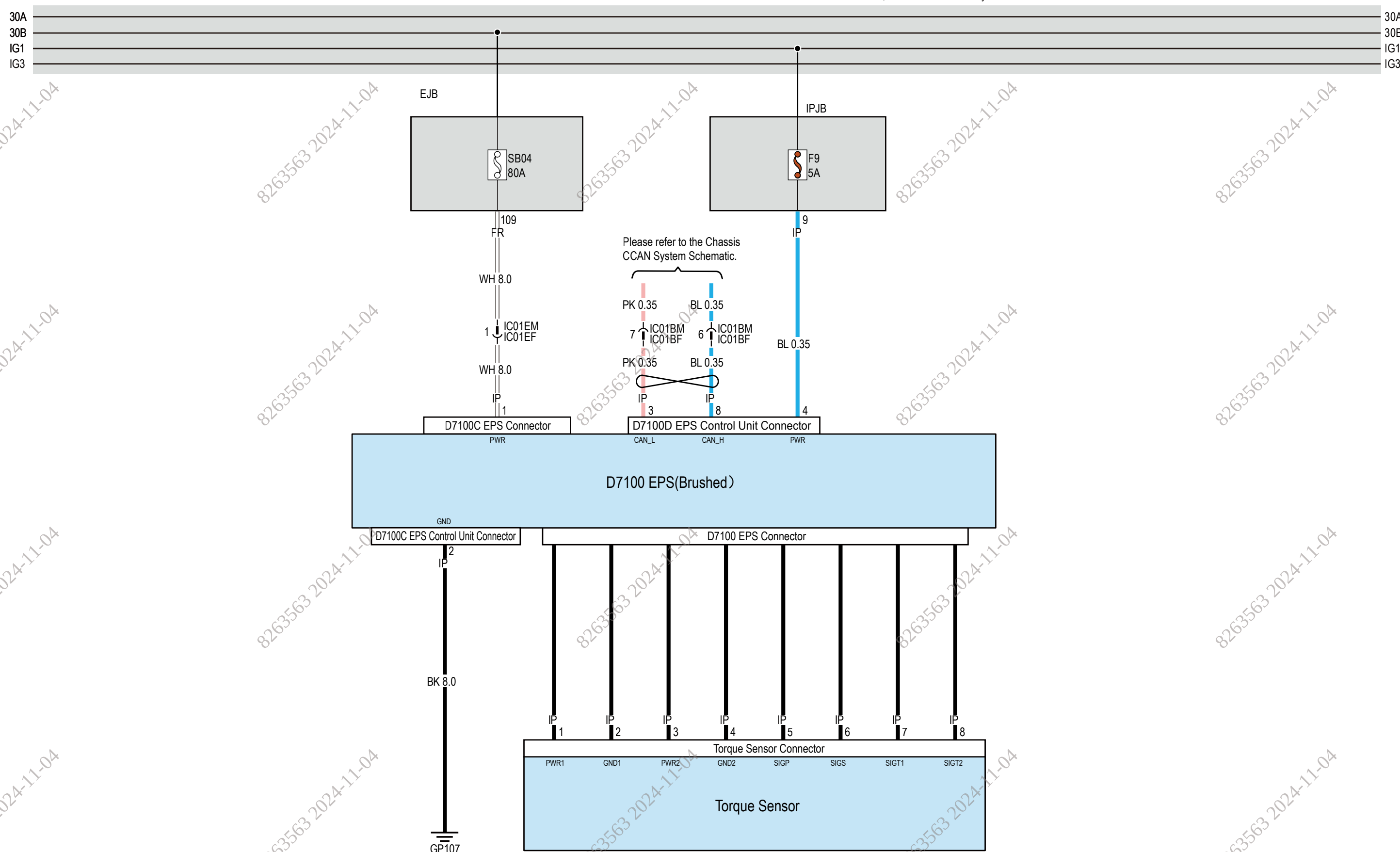
IBC(E3 Configuration)Schematic Diagram

Description : 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.

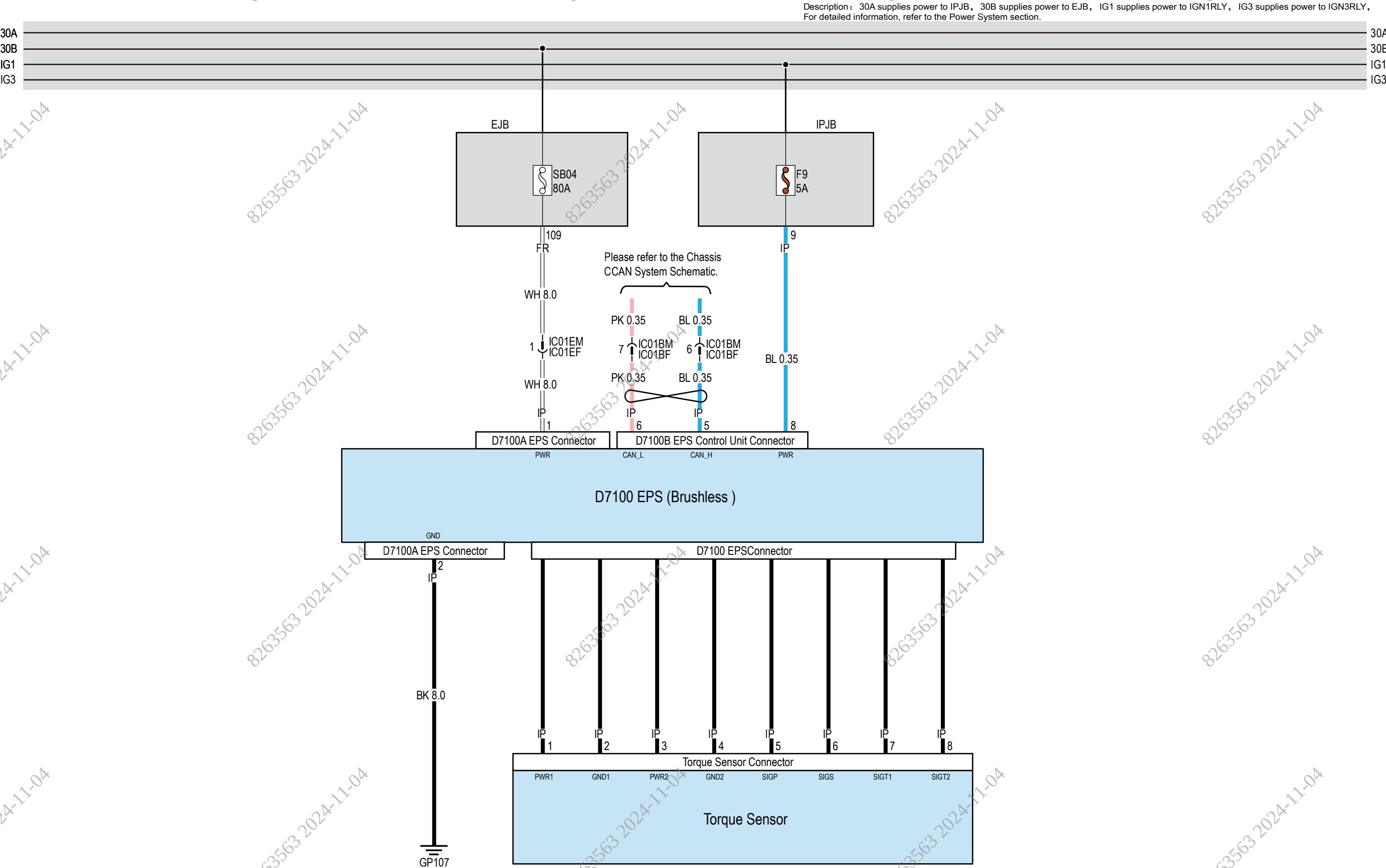


EPS(E1 Configuration)Schematic Diagram

Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.

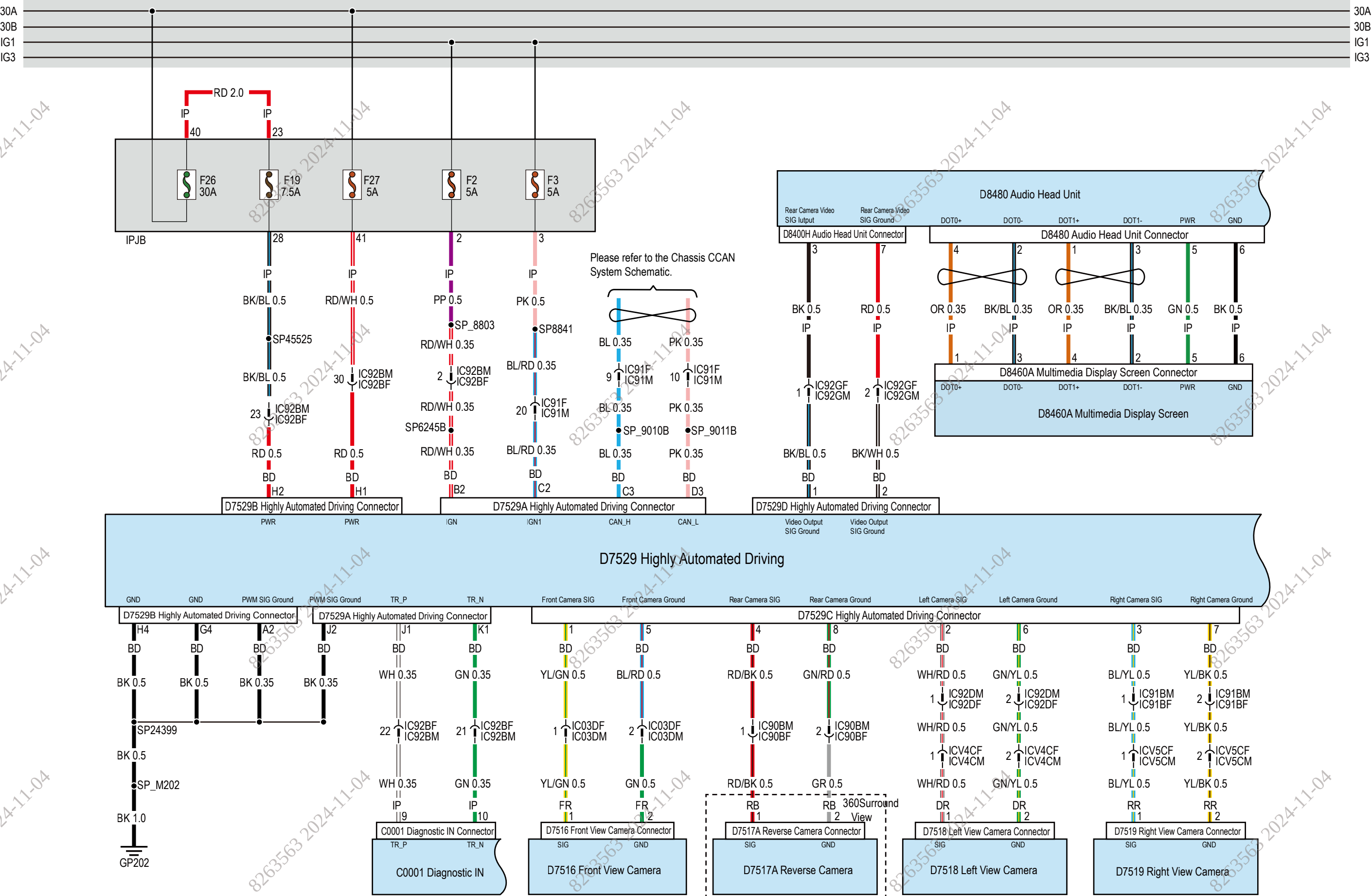


EPS(E1+&E2&E3 Configuration)Schematic Diagram

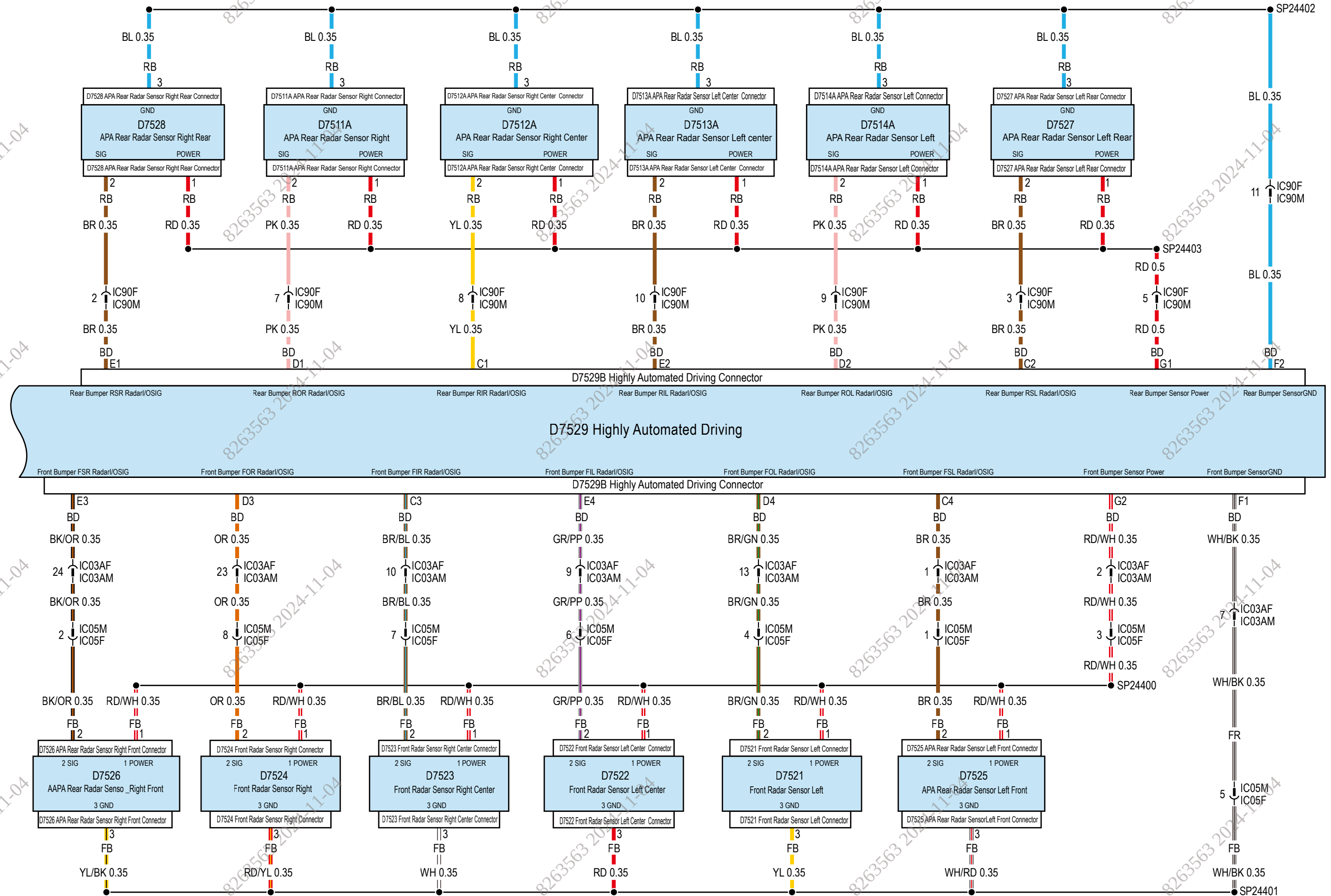


Highly Automated Driving - 360 Surround View Schematic

Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.

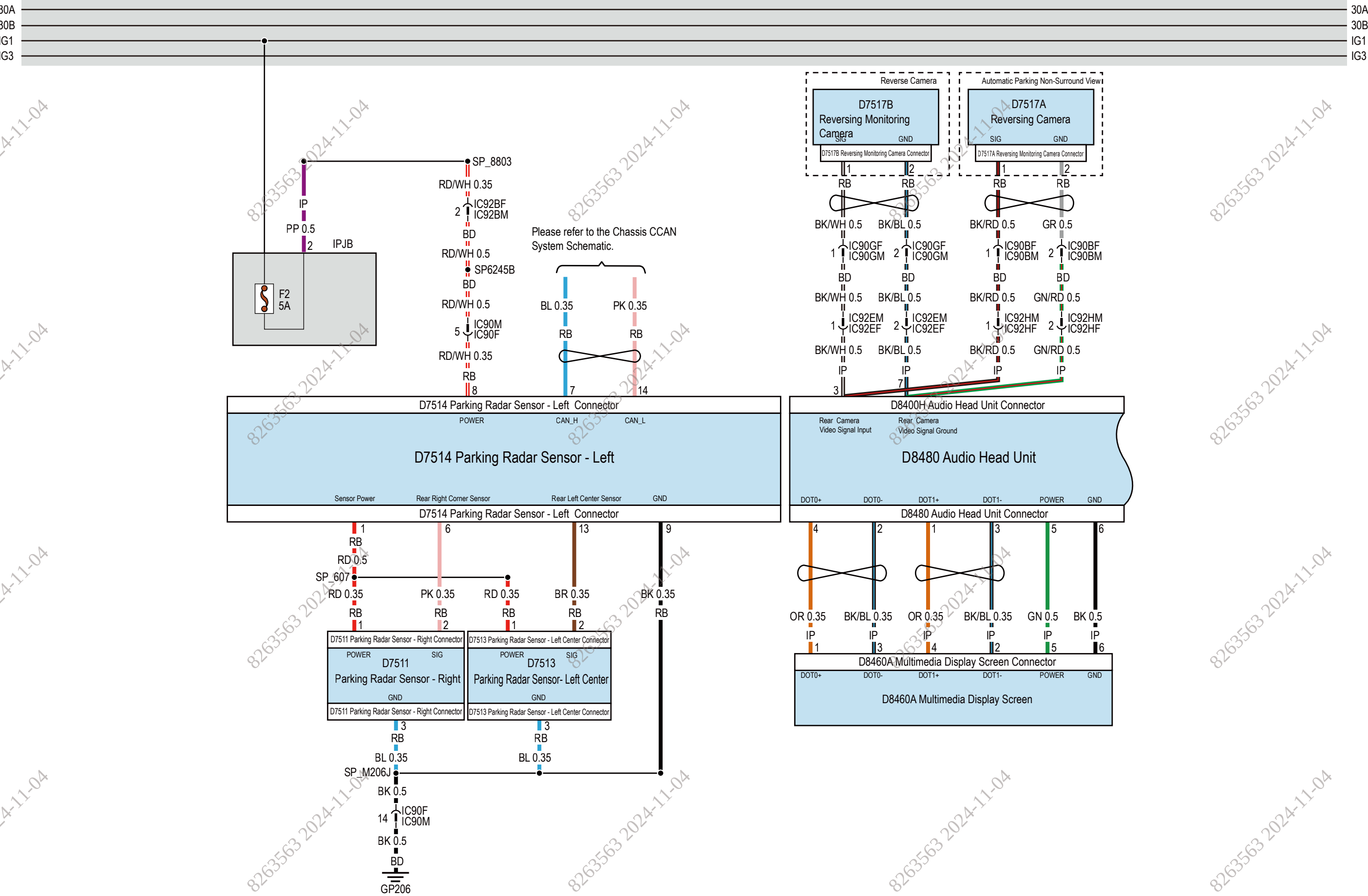


Highly Automated Driving - Automatic Parking Schematic



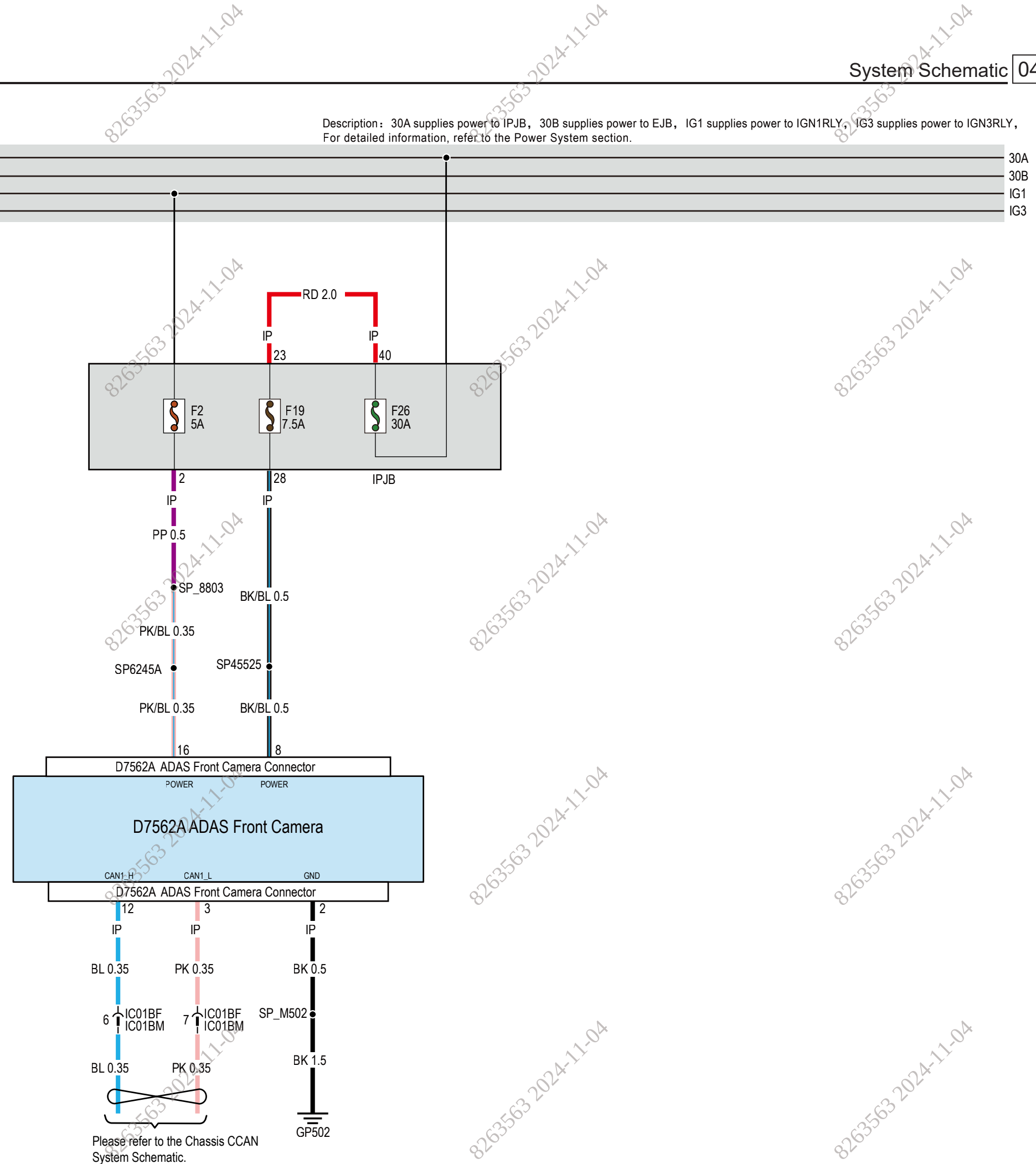
Parking Assistance Schematic

Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



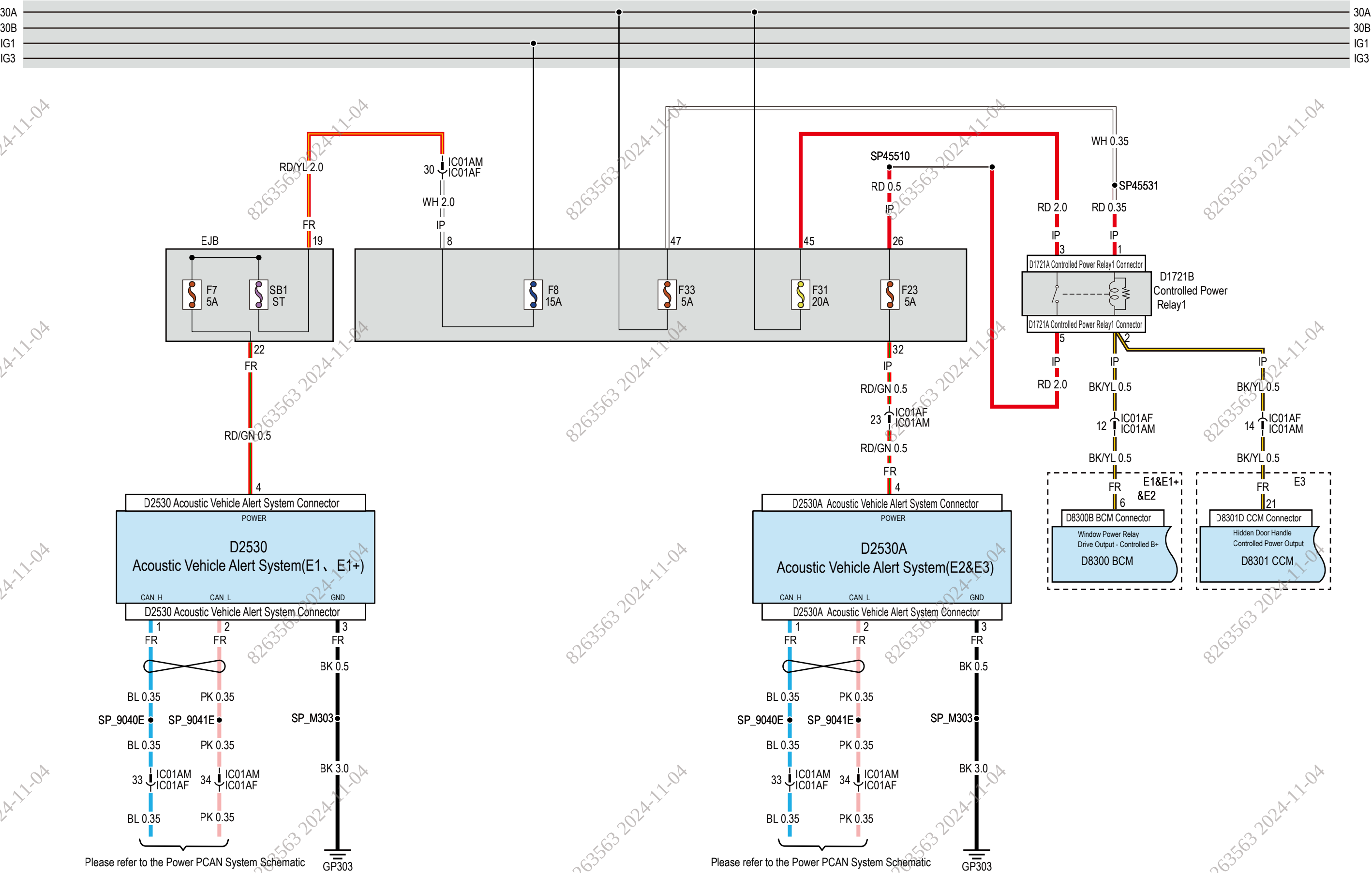
30A	
30B	
IG1	
IG3	

System Schematic 04



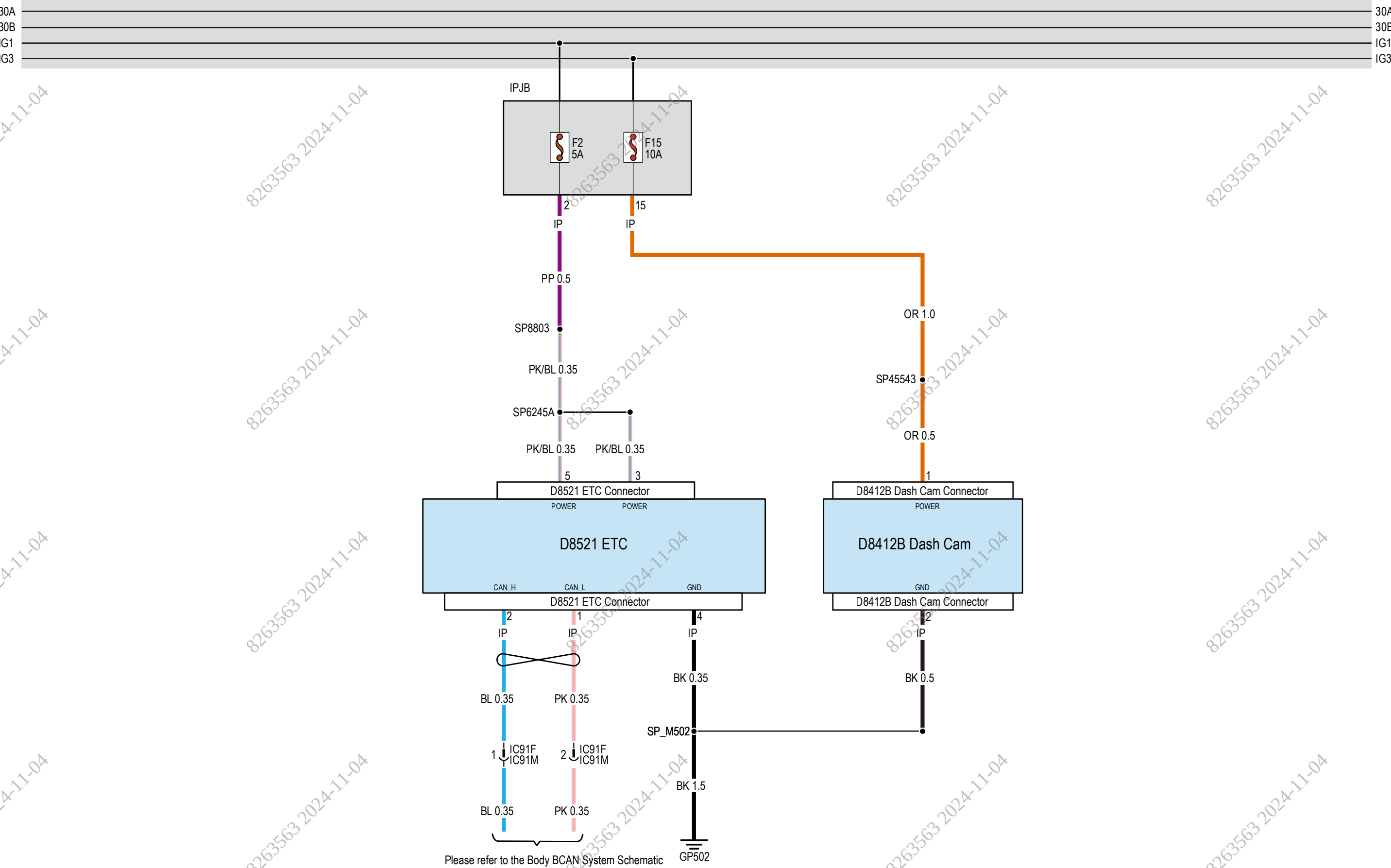
Acoustic Vehicle Alert System Schematic

Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.

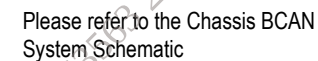


ETC & Dashcam Schematic

Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



Description: 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.



E-CALL Controller Schematic

Description : 30A supplies power to IPJB, 30B supplies power to EJB, IG1 supplies power to IGN1RLY, IG3 supplies power to IGN3RLY, For detailed information, refer to the Power System section.

