



BY APPOINTMENT TO
HER MAJESTY QUEEN ELIZABETH II
MANUFACTURERS OF DAIMLER AND JAGUAR CARS
JAGUAR CARS LIMITED COVENTRY



BY APPOINTMENT TO
HER MAJESTY QUEEN ELIZABETH
THE QUEEN MOTHER
MANUFACTURERS OF DAIMLER AND JAGUAR CARS
JAGUAR CARS LIMITED COVENTRY

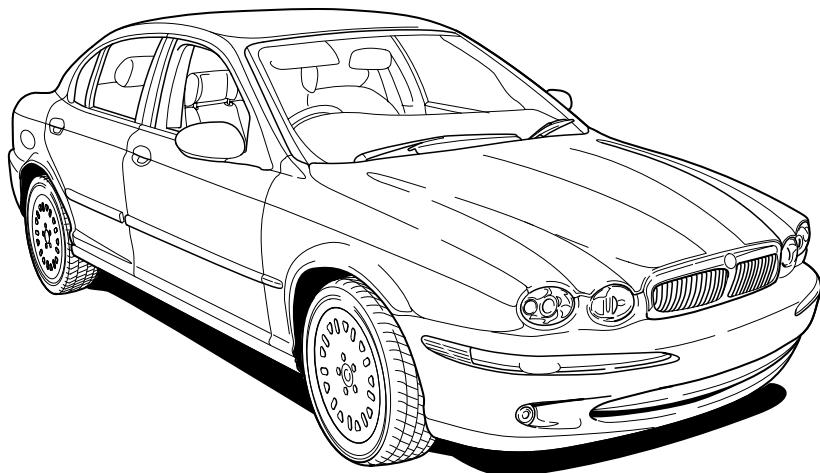


BY APPOINTMENT TO
HIS ROYAL HIGHNESS THE PRINCE OF WALES
MANUFACTURERS OF DAIMLER AND JAGUAR CARS
JAGUAR CARS LIMITED COVENTRY

X-TYPE

Sedan and Sports Brake Electrical Guide

2.0 L, 2.5 L and 3.0 L Gasoline; 2.0 L Diesel
Model Years: Sedan 2004.25, Sports Brake 2004.5



PROVISIONAL

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The following abbreviations and acronyms are used throughout this Electrical Guide:

A/C	Air Conditioning
APP SENSOR	Accelerator Pedal Position Sensor
APP1	Accelerator Pedal Position Sensor Element 1
APP2	Accelerator Pedal Position Sensor Element 2
B+	Battery Voltage
BANK 1	RH Cylinder Bank (Cylinders 1, 3, 5, 7)
BANK 2	LH Cylinder Bank (Cylinders 2, 4, 6, 8)
CAN	Controller Area Network
CHT SENSOR	Cylinder Head Temperature Sensor
CKP SENSOR	Crankshaft Position Sensor
CMP SENSOR / 1	Camshaft Position Sensor / RH Bank
CMP SENSOR / 2	Camshaft Position Sensor / LH Bank
D2B	D2B Network
DSC	Dynamic Stability Control
ECT SENSOR	Engine Coolant Temperature Sensor
EFT SENSOR	Engine Fuel Temperature Sensor
EGR VALVE	Exhaust Gas Recirculation Valve
EGT SENSOR	Exhaust Gas Temperature Sensor
EMS	Engine Management System
EOT SENSOR	Engine Oil Temperature Sensor
EVAP CANISTER CLOSE VALVE	Evaporative Emission Canister Close Valve
EVAP CANISTER PURGE VALVE	Evaporative Emission Canister Purge Valve
FTP SENSOR	Fuel Tank Pressure Sensor
GPS	Global Positioning System
HID	High Intensity Discharge
HO2 SENSOR 1 / 1	Heated Oxygen Sensor – RH Bank / Upstream
HO2 SENSOR 1 / 2	Heated Oxygen Sensor – RH Bank / Downstream
HO2 SENSOR 2 / 1	Heated Oxygen Sensor – LH Bank / Upstream
HO2 SENSOR 2 / 2	Heated Oxygen Sensor – LH Bank / Downstream
IAT SENSOR	Intake Air Temperature Sensor
ICE	In-Car Entertainment System
IMT VALVE / 1	Intake Manifold Tuning Valve / Bottom
IMT VALVE / 2	Intake Manifold Tuning Valve / Top
IP SENSOR	Injection Pressure Sensor
KS / 1	Knock Sensor / RH Bank
KS / 2	Knock Sensor / LH Bank
LH	Left Hand
LHD	Left Hand Drive
MAF SENSOR	Mass Air Flow Sensor
MAP SENSOR	Manifold Absolute Pressure Sensor
N/A	Normally Aspirated
NAS	North American Specification
PATS	Passive Anti-Theft System
PWM	Pulse Width Modulated
RH	Right Hand
RHD	Right Hand Drive
ROW	Rest of World
SB	Sports Brake
SCP	Standard Corporate Protocol Network
T-MAP SENSOR	Temperature Manifold Absolute Pressure Sensor
TP SENSOR	Throttle Position Sensor
TP1	Throttle Position Sensor Element 1
TP2	Throttle Position Sensor Element 2
TURN	Turn Signal
TV	Television
V6	V6 Engine
V8	V8 Engine
VVT VALVE / 1	Variable Valve Timing Valve / Bank 1
VVT VALVE / 2	Variable Valve Timing Valve / Bank 2
+ve	Positive
-ve	Negative



Provisional Electrical Guide Format

This Provisional Electrical Guide is an abridged version made up of two sections. The first section provides general information for and about the use of the book, and information and illustrations to aid in the location and identification of components.

The Figure section illustrates detailed electrical circuit information for each system on the vehicle. Each Figure is identified by a Figure Number (i.e. Fig. 01.1) and Title. The data that would normally accompany each Figure is not included in this provisional version.

It is recommended that the user read through the front section of the book to develop a familiarity with the layout of the book and with the system of symbols and abbreviations used. The Table of Contents should help to guide the user.

Vehicle Identification Numbers (VIN)

VIN ranges are presented throughout the book in the following manner:

→ VIN 123456 indicates "up to VIN 123456"; VIN 123456 → indicates "from VIN 123456 on".

Jaguar 2004 Model Year X-TYPE Electrical System Architecture

Power Supplies

The Jaguar 2004 Model year X-TYPE electrical system is a supply-side switched system. The ignition switch directly carries much of the ignition switched power supply load. Power supply is provided via three methods: direct battery power supply, ignition switched power supply, and "Battery Saver Power Supply". The "Battery Saver Power Supply" circuit is controlled via the GEM (General Electronic Module). Refer to Figure 01.7 for circuit activation details.

Fuse Boxes

The electrical harness incorporates two serviceable power distribution fuse boxes: the Power Distribution Fuse Box located in the engine compartment and the Passenger Junction Fuse Box located in the left-hand 'A' Post. All fuses and relays (except the trailer towing accessory kit and two Diesel vehicle relays) are located in the two fuse boxes.

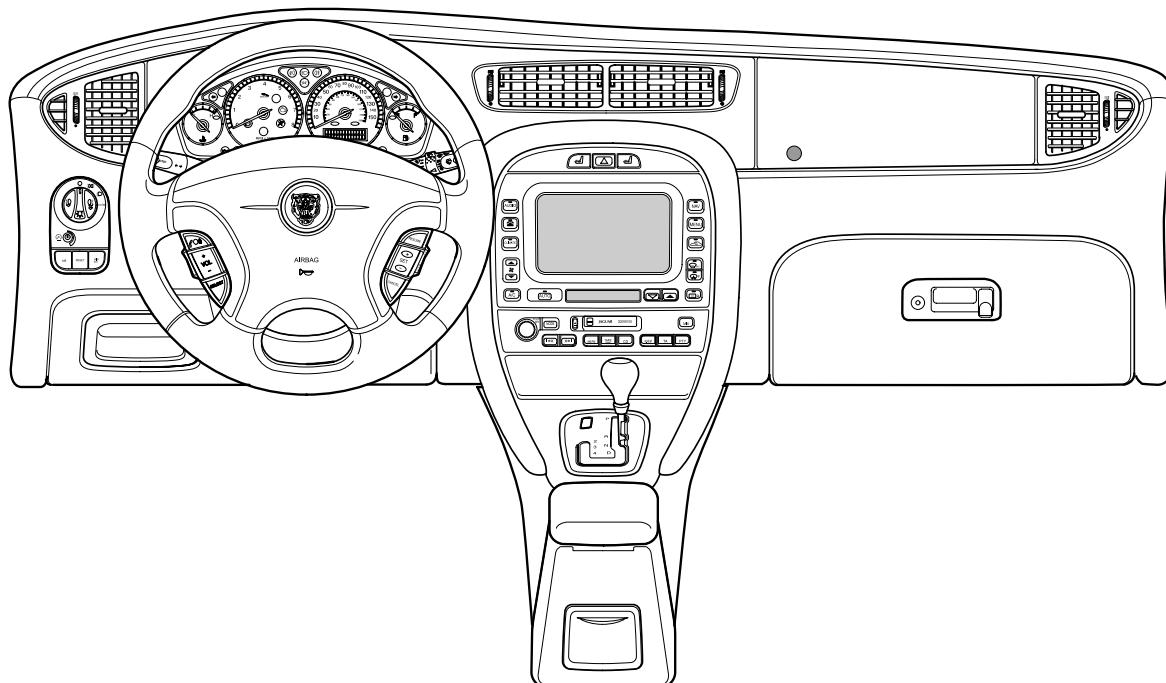
Vehicle Networks

The X-TYPE employs three different networks: a CAN (Controller Area Network) for high-speed power train communications, an SCP (Standard Corporate Protocol) network for slower speed body systems communications, and a D2B (Optical) Network for very high-speed "real-time" audio data transfer. The D2B Network is a fiber optic network with a gateway to the remaining vehicle networks via the Audio Unit. Technician access to the three networks and the Serial Data Link is via the Data Link Connector.

Ground Studs

Circuit ground connections are made at body studs located throughout the vehicle. There are no separate power and logic grounding systems; however, there are a certain number of components that use unique ground points.

X-TYPE INSTRUMENT PANEL





NOTE: In the examples on this page, an 'X' is used where a number would appear on an actual Figure.

Reference Symbols

	Battery power supply
	Ignition switched auxiliary power supply (key I)
	Ignition switched power supply (key II, III)
	Ignition switched Battery Saver power supply
	Engine Management System power supply
	Figure number reference
	Controller Area Network
	Standard Corporate Protocol network
	D2B network

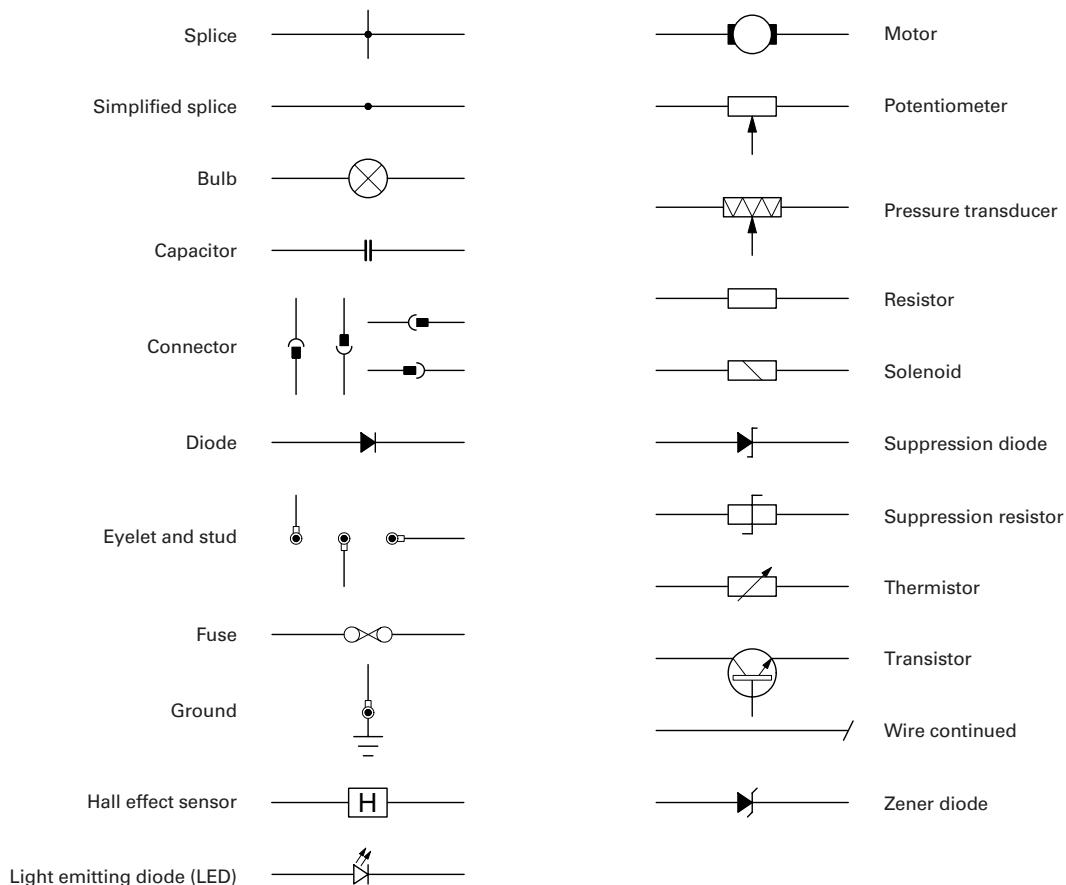
Control Module Pin Symbols

	Input		CAN network
	Output		SCP network
	Battery voltage		D2B network
	Power ground		Serial and encoded data
	Sensor/signal supply V *		
	Sensor/signal ground **		

* May also indicate Reference Voltage.

** May also indicate Reference Ground or Logic Ground.
Refer to Control Module Pin-Out Information.

Wiring Symbols





Harness Codes

AC Climate Control
AS Side Airbag
BH Engine Block Heaters
BL LH Rear Door
BR RH Rear Door
CA Cabin
DE Diesel Engine
DL Diesel Engine Link
EN Engine
FB Front Bumper
FL LH Front Door
FR RH Front Door
FT Fuel Tank
GC Cooling Pack
IJ Injector Rail
IP Instrument Panel
JB Junction Box
LF LH Front Wheel Speed Sensor
LR LH Rear Wheel Speed Sensor
LS LH Front Seat
NA Navigation System
PA Pedal Assembly
PH Telephone
RB Rear Bumper
RC Roof Console
RF RH Front Wheel Speed Sensor
RR RH Rear Wheel Speed Sensor
RS RH Front Seat
SL Security Sounder Link
TL Trunk Lid
TT Trailer Towing
TV Television
WG Tailgate Glass (Sports Brake only)
WL Tailgate Link (Sports Brake only)
WS Weight Sensor
WT Tailgate (Sports Brake only)

Wiring Color Codes

N	Brown	O	Orange
B	Black	S	Slate
W	White	L	Light
K	Pink	U	Blue
G	Green	P	Purple
R	Red	BRD	Braid
Y	Yellow	BOF	Fiber optic (D2B Network)

Code Numbering

When numbering connectors, grounds and splices, Jaguar Engineering uses a three-position format: AC001, AC002, etc. Because space is limited in this Electrical Guide the codes have, in most cases, been shortened. Thus AC001-001 becomes AC1-1, AC002-001 becomes AC2-1, etc.



Grounds

There may be up to three eyelets on one ground stud. A, B and C are used to indicate the position of the eyelet on the stud: A – first (bottom), B – second (middle), C – third (top). Two eyelet variations are used: a single eyelet and an eyelet pair. The single eyelet has a single ‘leg’, which is identified by an S; the eyelet pair has two ‘legs’, identified as L (left) or R (right).

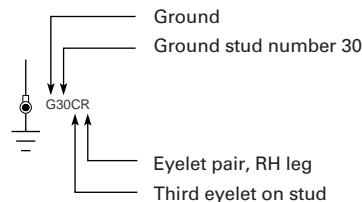
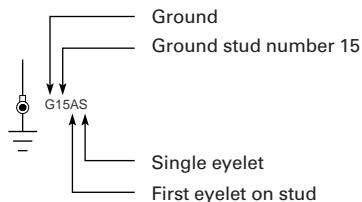


SINGLE EYELET



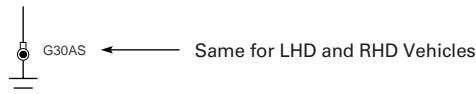
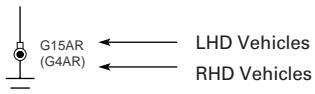
EYELET PAIR

EXAMPLE:



On figures where LHD and RHD circuits are combined and the ground designation differs from LHD to RHD, the RHD ground is shown in parentheses. If the ground designation is the same for LHD and RHD, only one ground designation is used.

EXAMPLE:

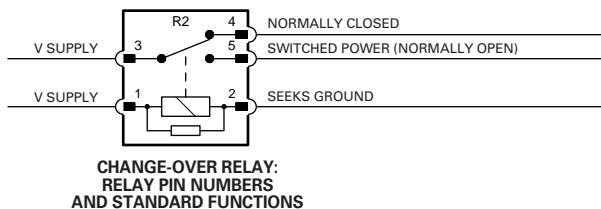


Relays

Serviceable Relays

Serviceable relays are located in both fuse boxes. They do not have a separate relay connector (base). All relays use the ISO pin numbering system – 1, 2, 3, 4, 5. Each relay is identified by an “R” number unique only to the fuse box in which it is located.

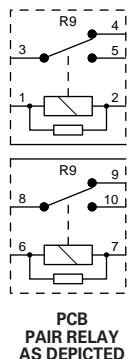
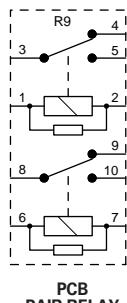
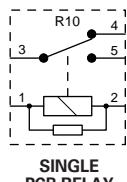
EXAMPLE:



Non-Serviceable Relays

Non-serviceable relays are located in both fuse boxes. They are a component part of the fuse box printed circuit board (PCB) and are arranged in singles or pairs. The relays use the ISO pin numbering system – 1, 2, 3, 4, 5 (single relay or top pair relay) and 6, 7, 8, 9, 10 (bottom pair relay). Each relay is identified by an “R” number unique only to the fuse box in which it is located. Pair relays are normally depicted separately.

EXAMPLE:



NOTE: Diesel vehicles have one serviceable relay located on the Junction Box harness and one serviceable relay attached to the Power Distribution Fuse Box.



Fuses

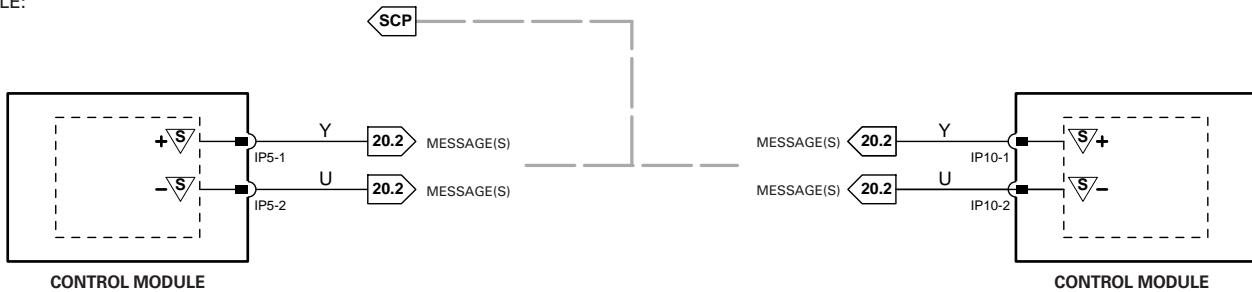
All fuses are located in the fuse boxes. Each fuse is identified by an “F” number unique only to the fuse box in which it is located.

EXAMPLE:

Networks

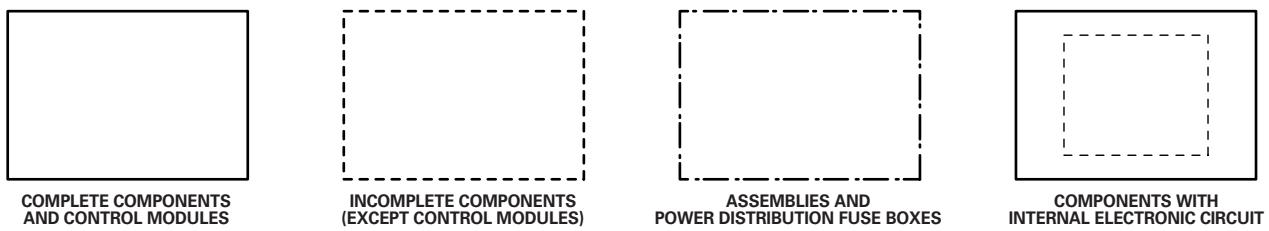
In most instances, networks are shown as a broken grey line to indicate that there is network communication between the depicted control modules. Refer to Figures 20.1, 20.2, 20.3 and 20.4 for circuit details.

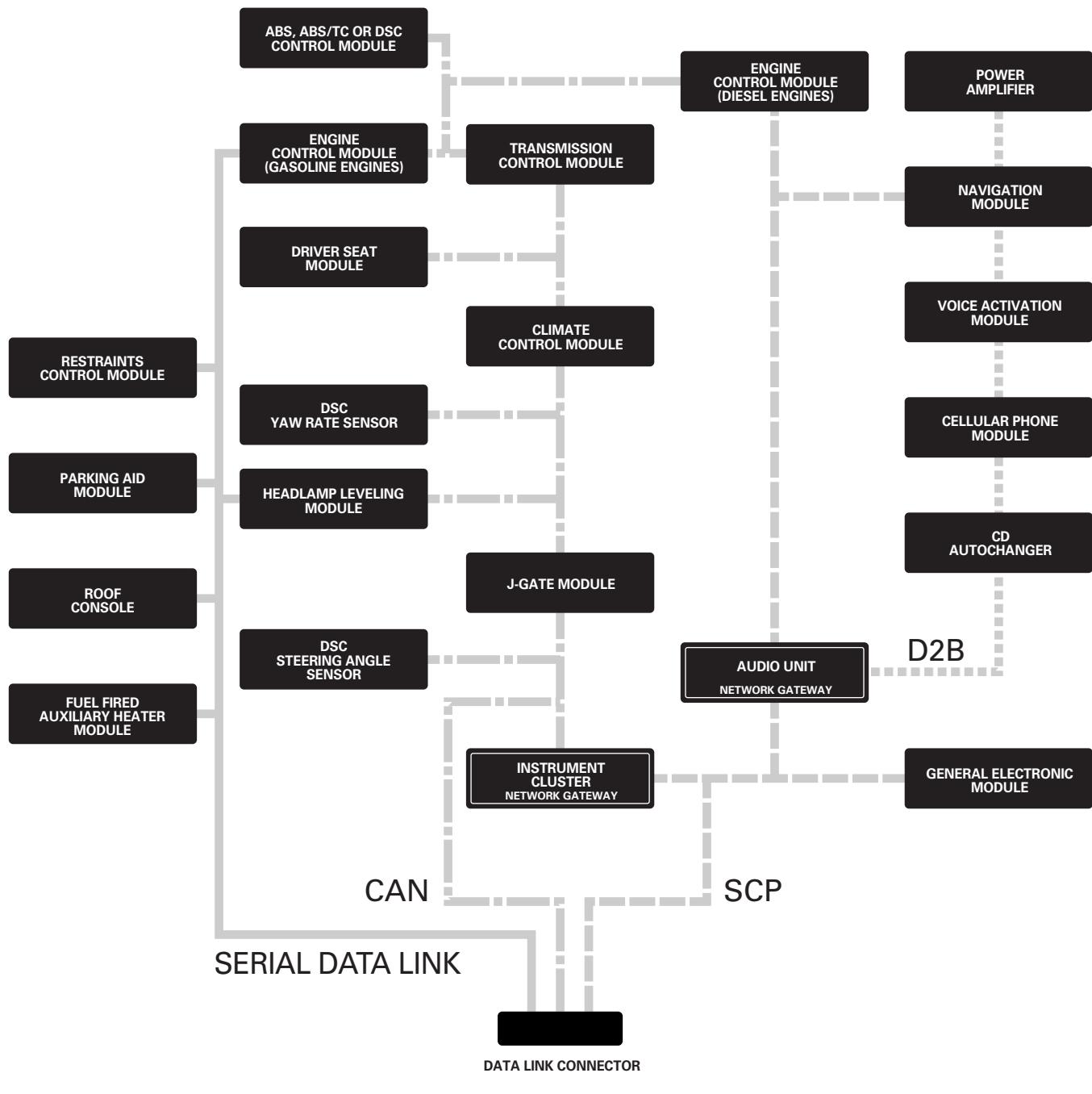
EXAMPLE:



Component Depictions

EXAMPLE:



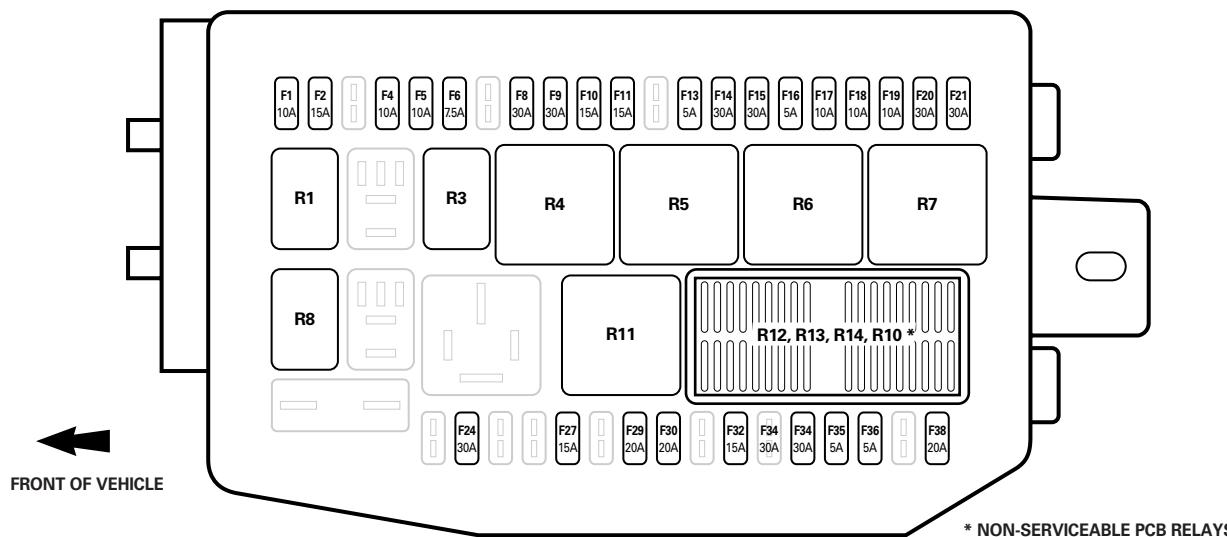


——— CAN NETWORK
 - - - - - SCP NETWORK
 - - - - - D2B NETWORK
 ————— SERIAL DATA LINK

NOTE: TYPICAL NETWORK CONFIGURATION.
REFER TO FIGURES 20.1, 20.2, 20.3 AND 20.4 FOR CIRCUIT DETAILS.



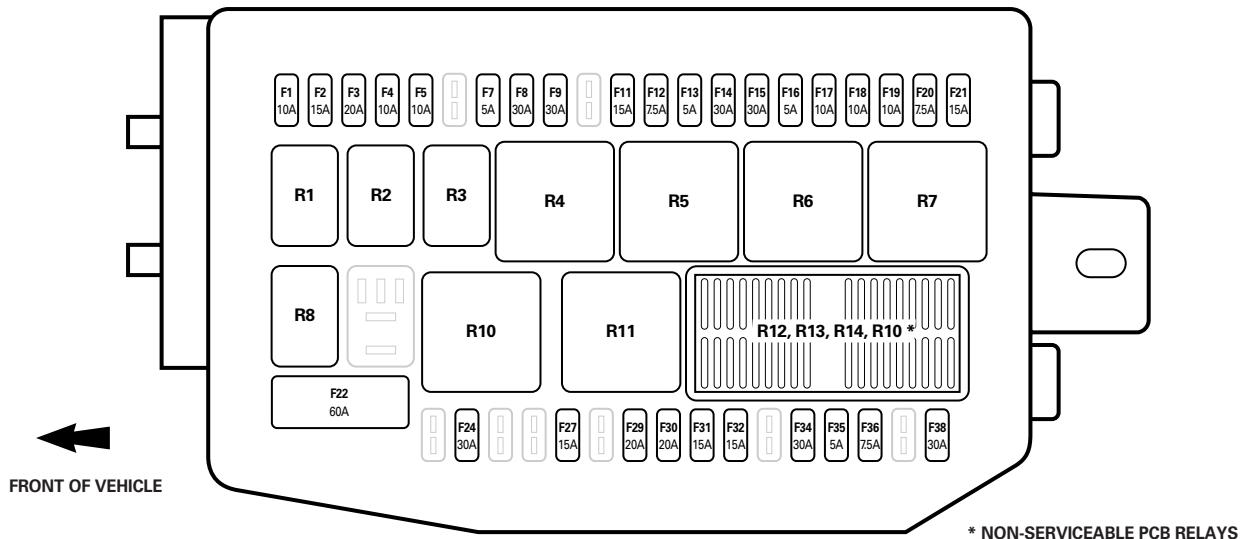
POWER DISTRIBUTION FUSE BOX (TOP): GASOLINE ENGINE VEHICLES



R1 MAIN BEAM / FRONT FOG RELAY
 R2 NOT USED
 R3 A/C COMPRESSOR CLUTCH RELAY
 R4 WINDSHIELD WIPER MOTOR RELAY
 R5 POWER DISTRIBUTION FUSE BOX IGNITION RELAY
 R6 WINDSHIELD HEATER RELAY
 R7 EMS CONTROL RELAY
 R8 POWERWASH PUMP RELAY

R9 NOT USED
 R10 NOT USED
 R11 DIP BEAM RELAY
 R12 STARTER RELAY
 R13 SLAVE IGNITION RELAY
 R14 NOT USED
 R15 HORN RELAY

POWER DISTRIBUTION FUSE BOX (TOP): DIESEL ENGINE VEHICLES

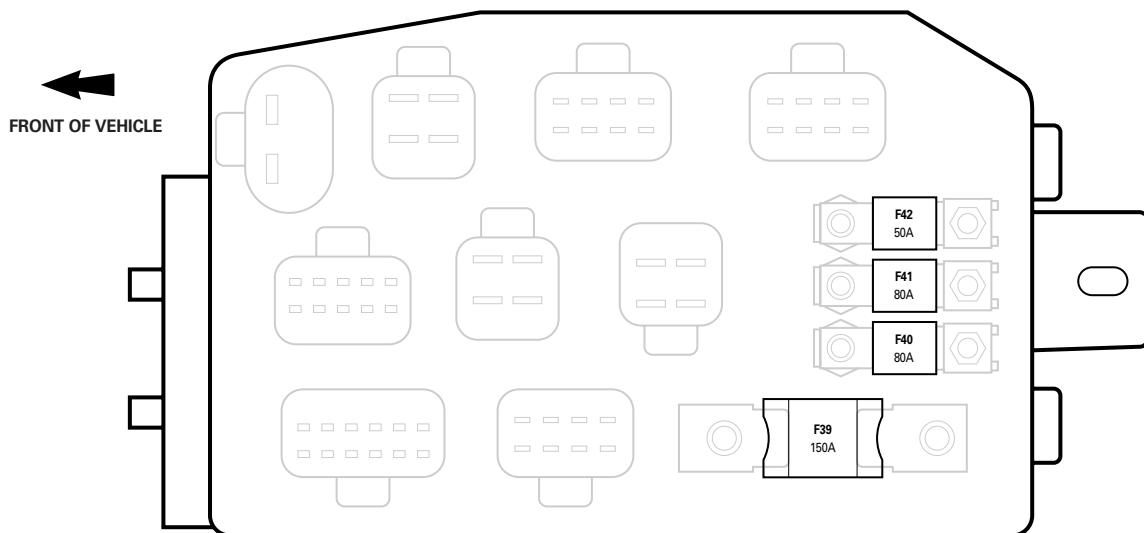


R1 MAIN BEAM / FRONT FOG RELAY
 R2 HORN RELAY
 R3 A/C COMPRESSOR CLUTCH RELAY
 R4 WINDSHIELD WIPER MOTOR RELAY
 R5 POWER DISTRIBUTION FUSE BOX IGNITION RELAY
 R6 WINDSHIELD HEATER RELAY
 R7 EMS CONTROL RELAY
 R8 POWERWASH PUMP RELAY

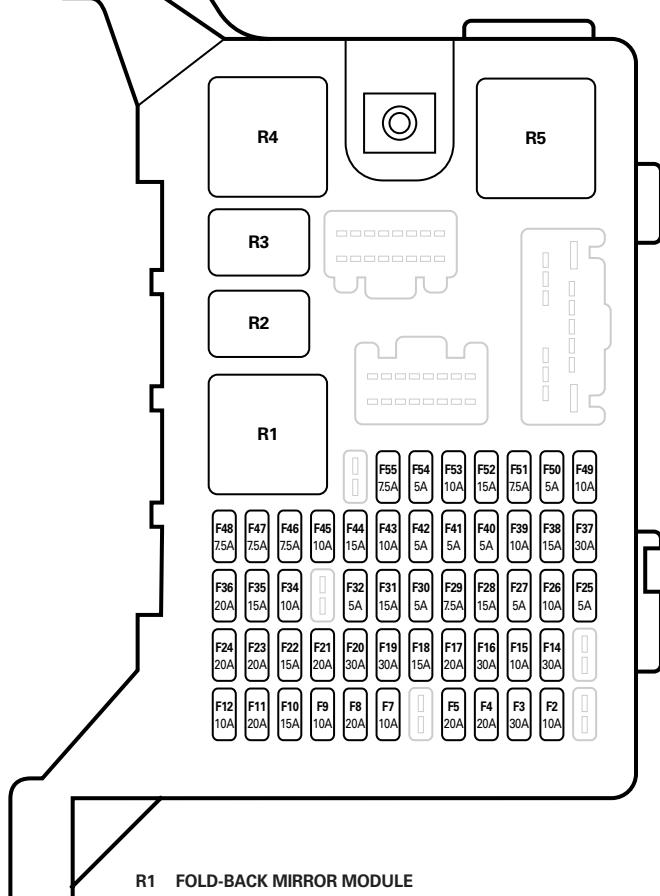
R9 NOT USED
 R10 GLOW PLUG RELAY
 R11 DIP BEAM RELAY
 R12 STARTER RELAY
 R13 SLAVE IGNITION RELAY
 R14 NOT USED
 R15 AUXILIARY HEATER RELAY 1



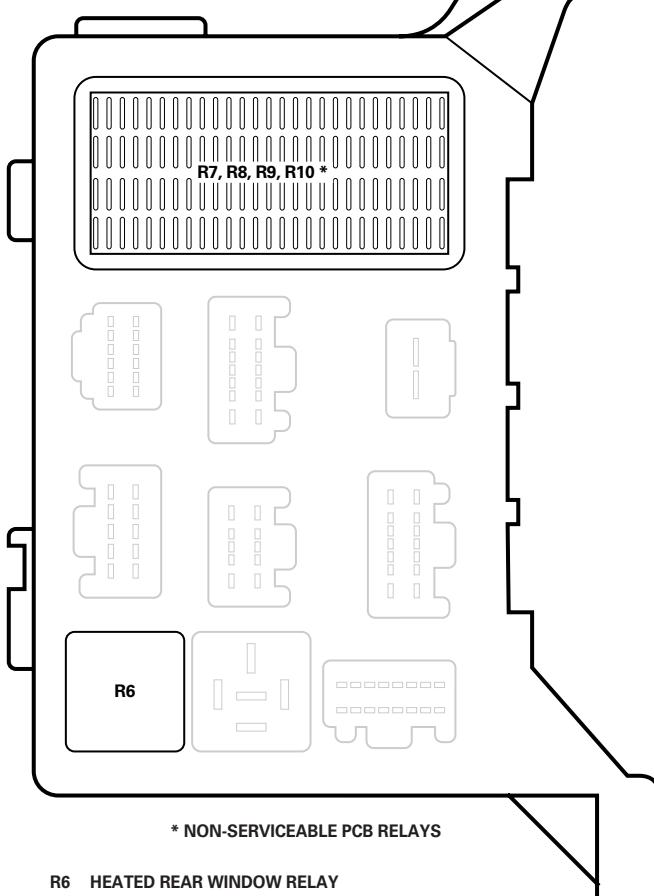
POWER DISTRIBUTION FUSE BOX (BOTTOM)



PASSENGER JUNCTION FUSE BOX (FRONT)



PASSENGER JUNCTION FUSE BOX (BACK)

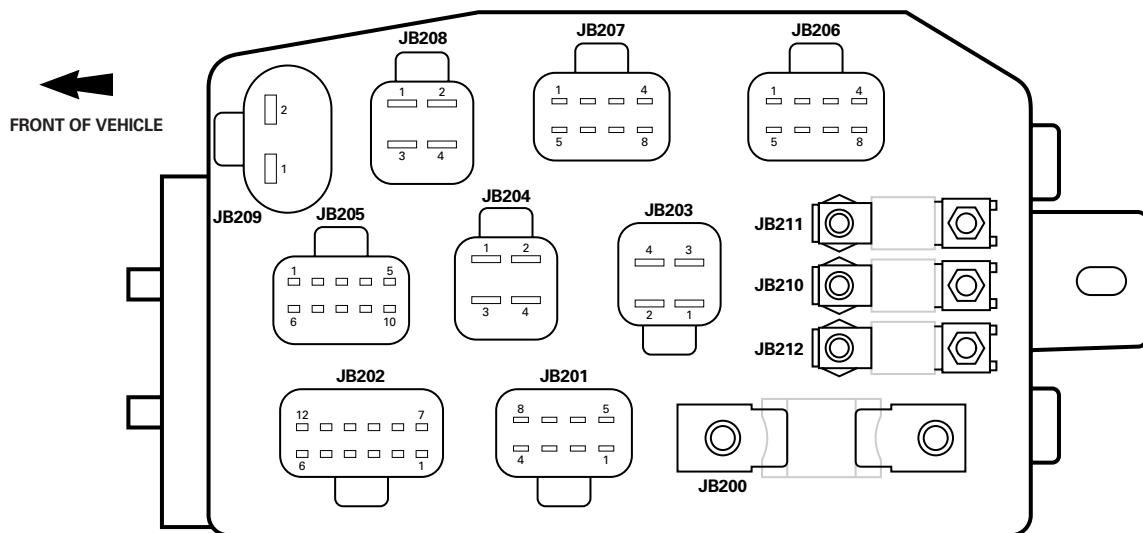
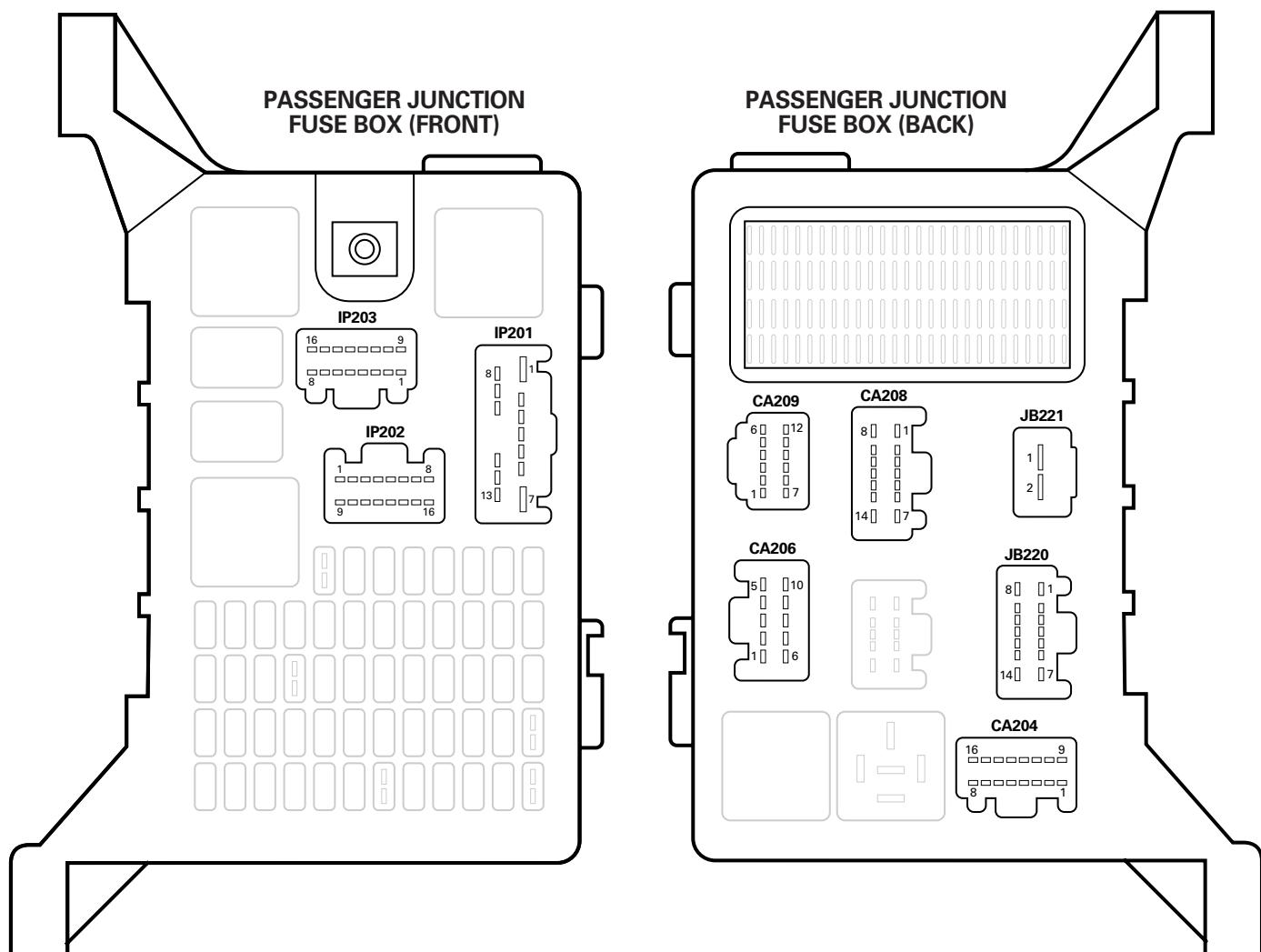


- R1 FOLD-BACK MIRROR MODULE
- R2 ACCESSORY RELAY
- R3 REAR WIPER MOTOR RELAY
(SPORTS BRAKE ONLY)
- R4 BLOWER MOTOR RELAY
- R5 PASSENGER JUNCTION FUSE BOX IGNITION RELAY

- R6 HEATED REAR WINDOW RELAY
- R7 THROTTLE MOTOR RELAY (2.5L AND 3.0L VEHICLES)
FUEL PUMP RELAY (2.0L VEHICLES)
- R8 NOT USED
- R9 REVERSE LAMPS RELAY
- R10 BATTERY SAVER RELAY

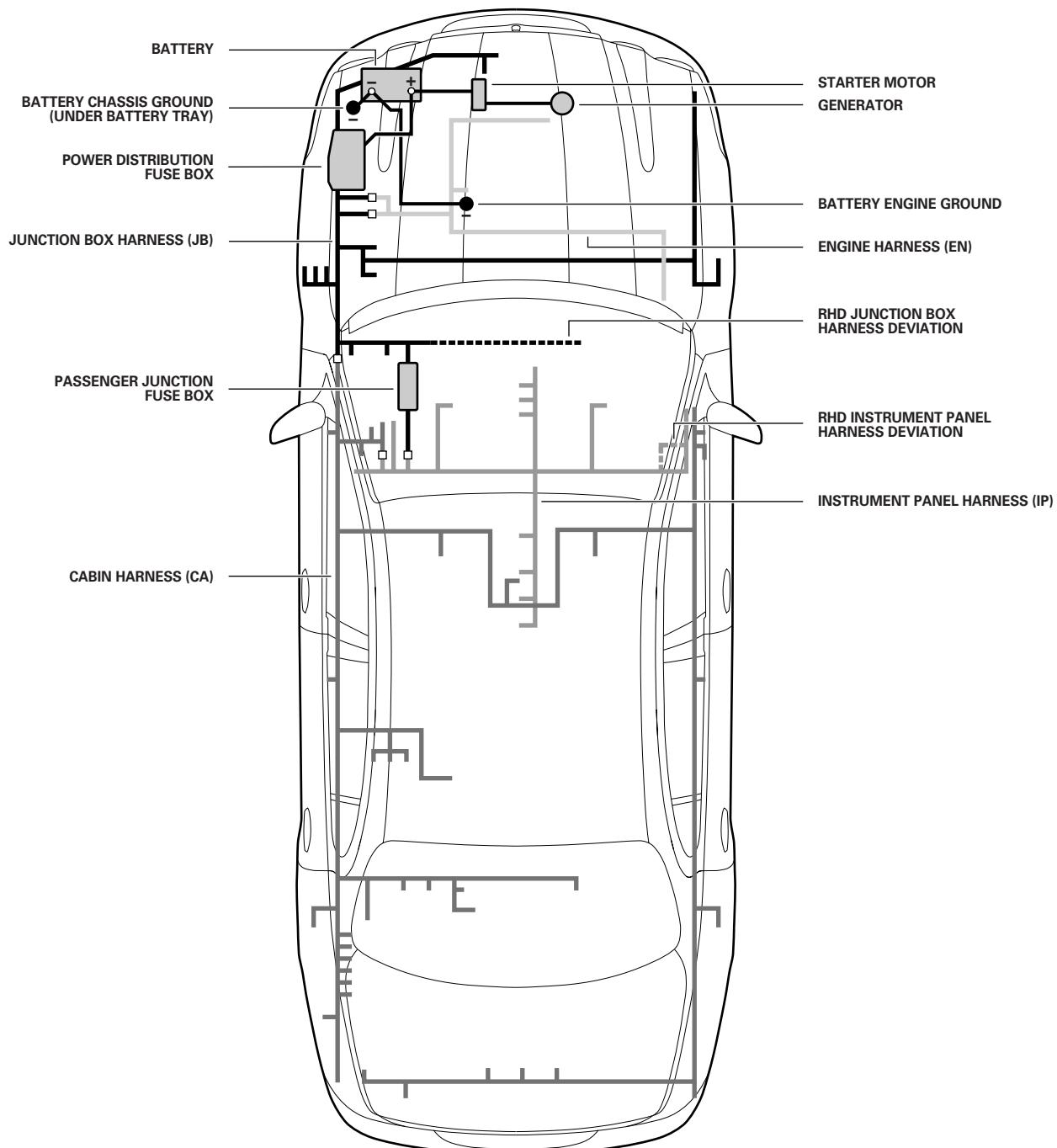


POWER DISTRIBUTION FUSE BOX (BOTTOM)

PASSENGER JUNCTION
FUSE BOX (FRONT)PASSENGER JUNCTION
FUSE BOX (BACK)

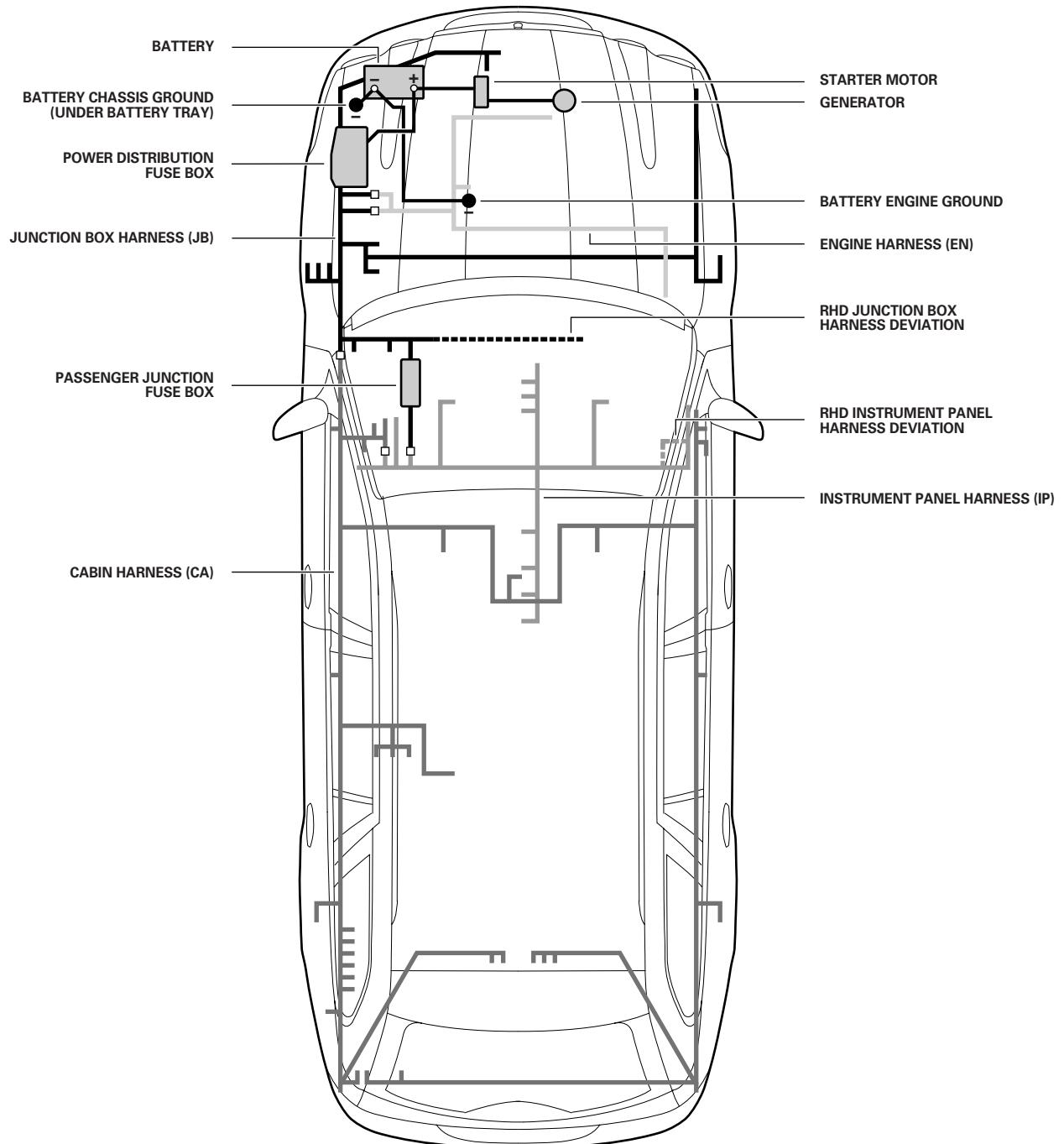


SEDAN (GASOLINE ENGINE SHOWN)



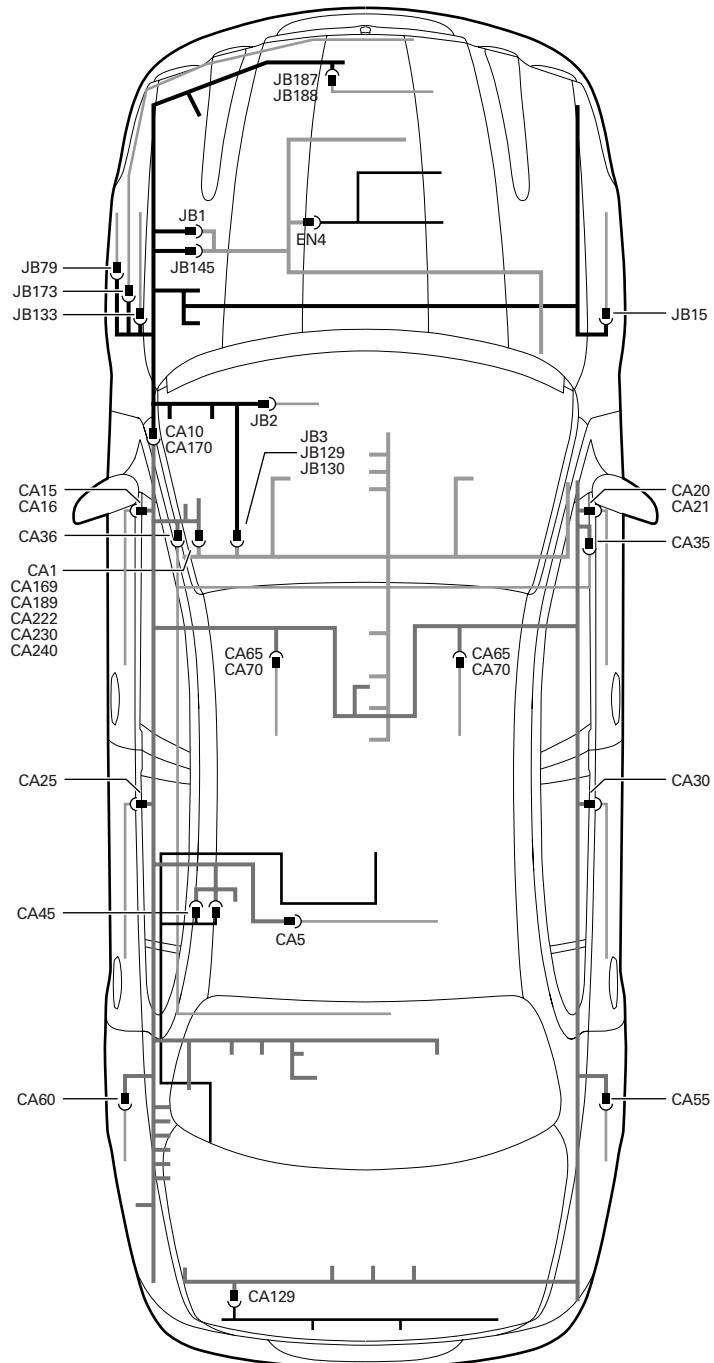


SPORTS BRAKE (GASOLINE ENGINE SHOWN)



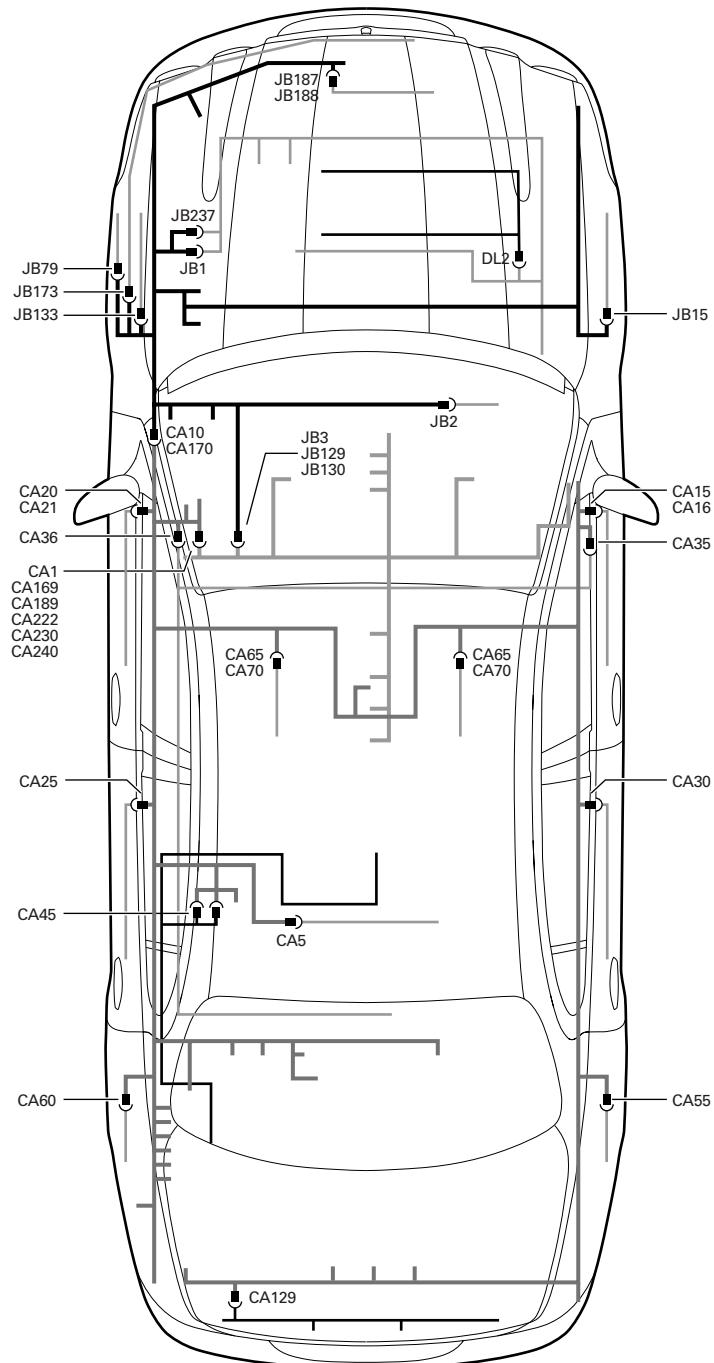


SEDAN: GASOLINE ENGINE (LHD SHOWN)



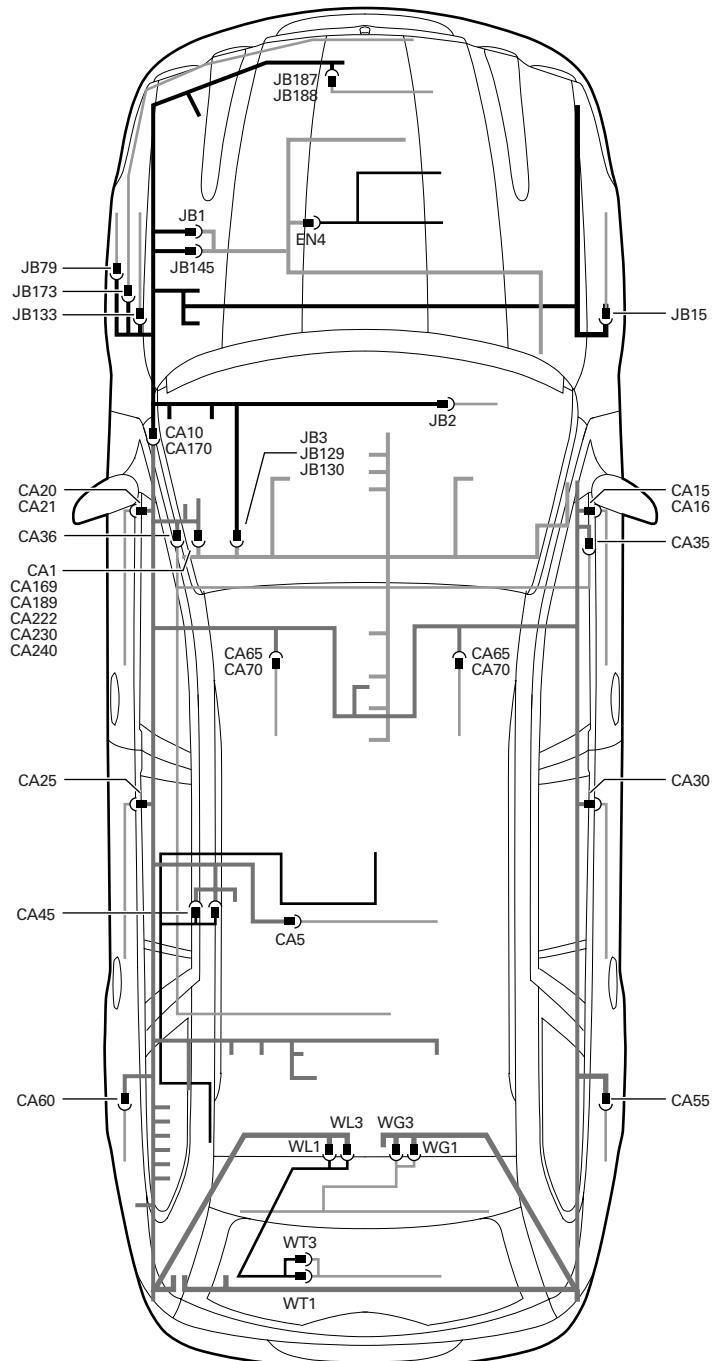


SEDAN: DIESEL ENGINE (RHD SHOWN)



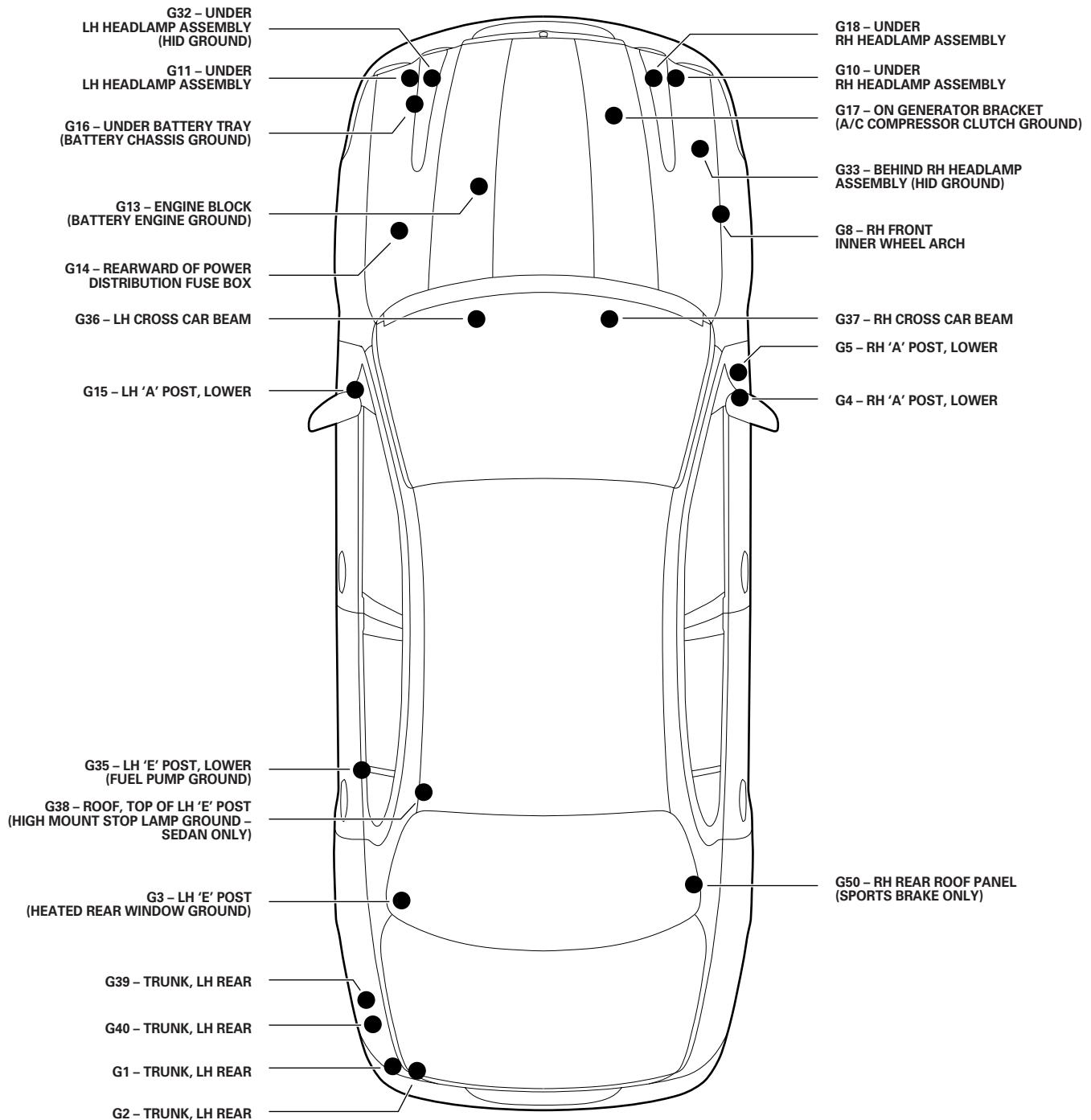


SPORTS BRAKE (RHD SHOWN)





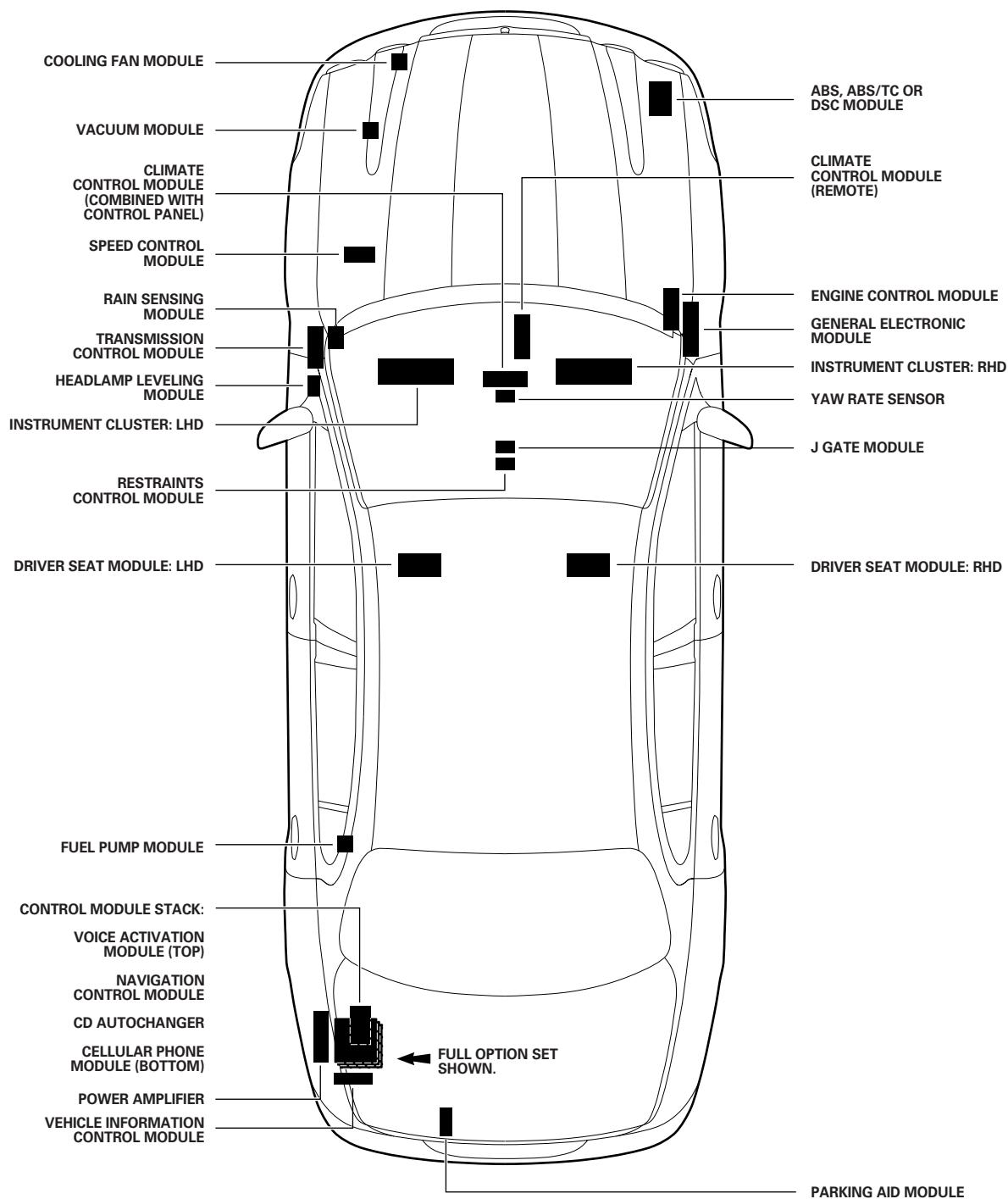
SEDAN SHOWN

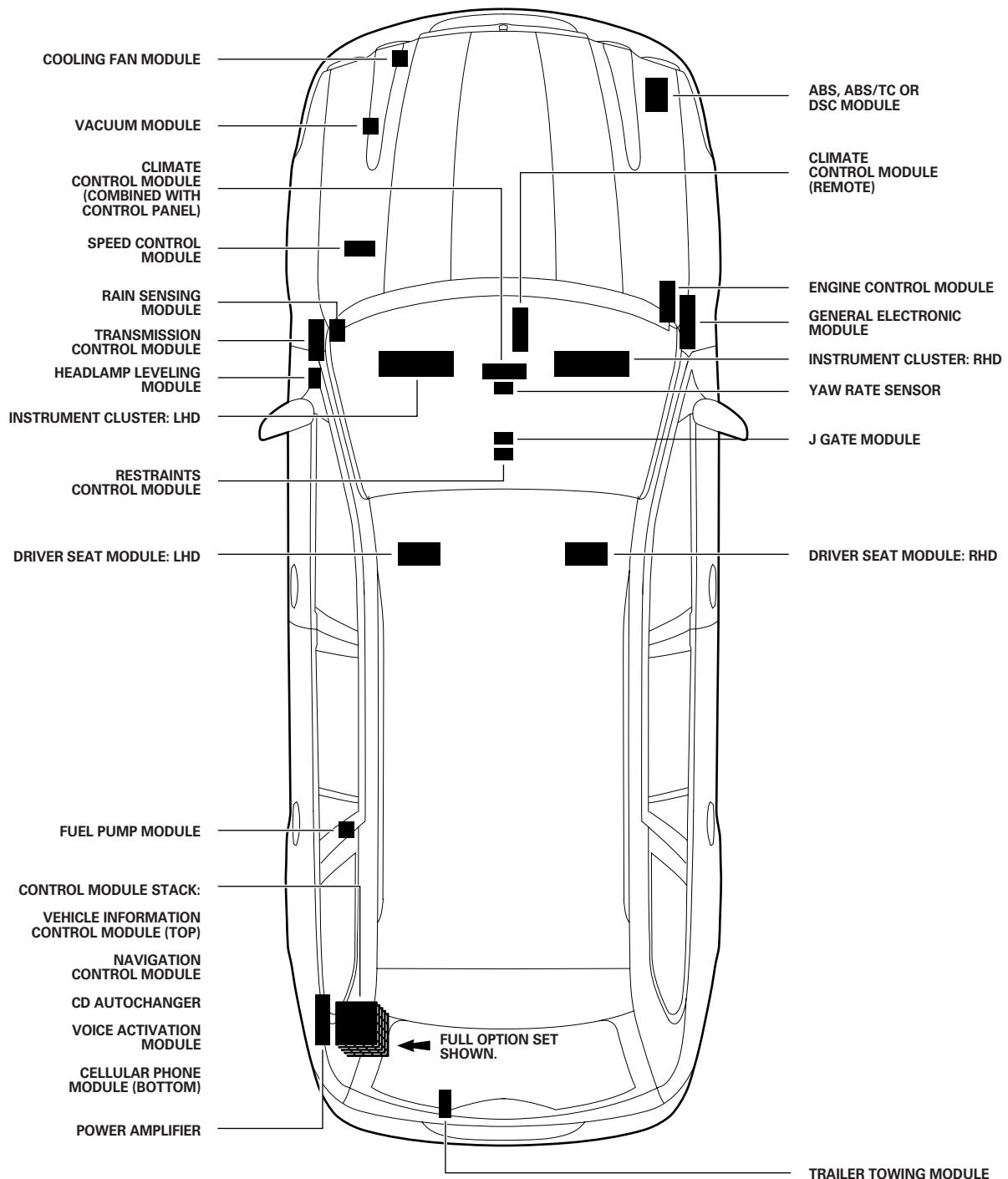


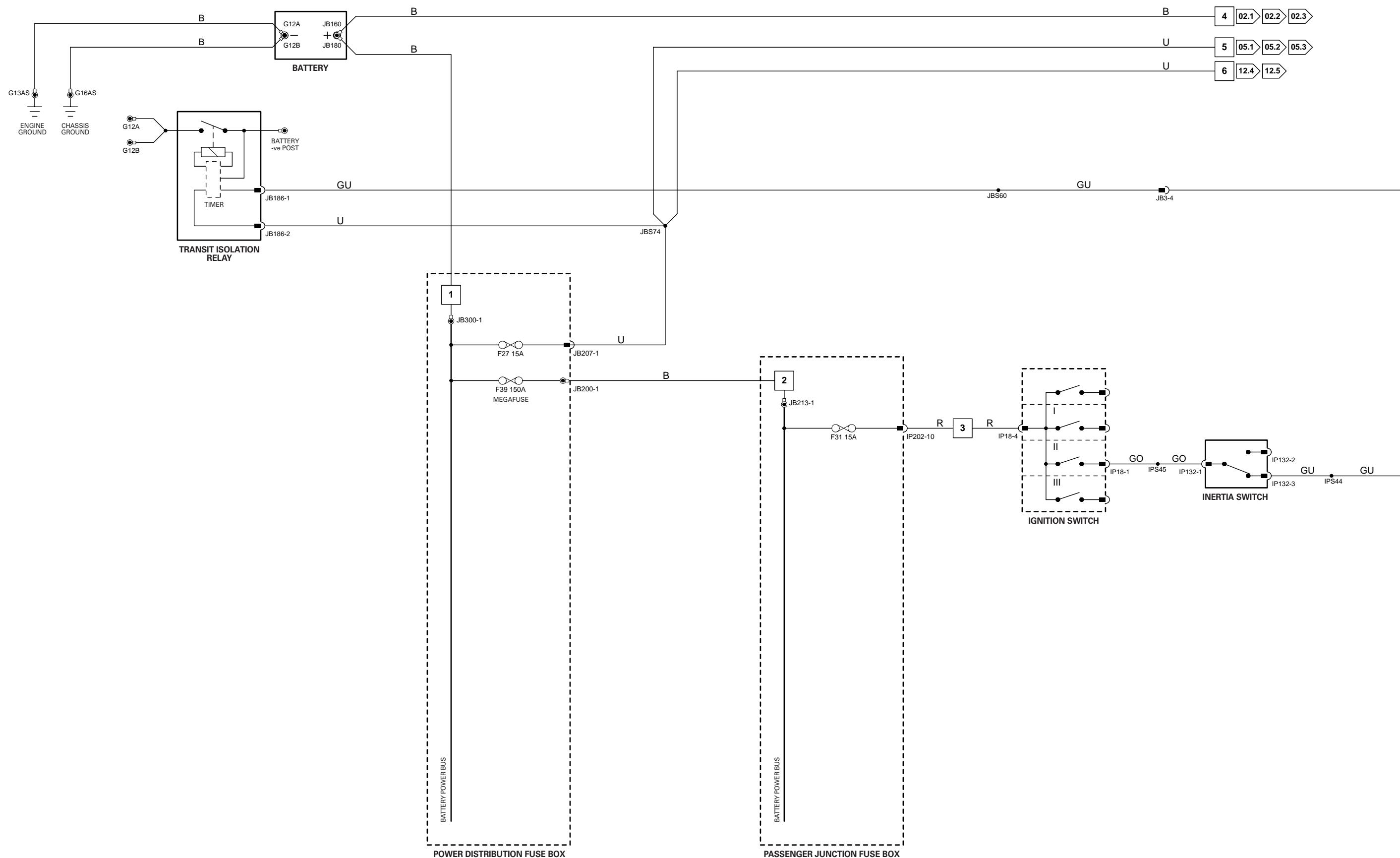
NOTE: UNIQUE GROUND STUDS ARE NOTED IN PARENTHESES.

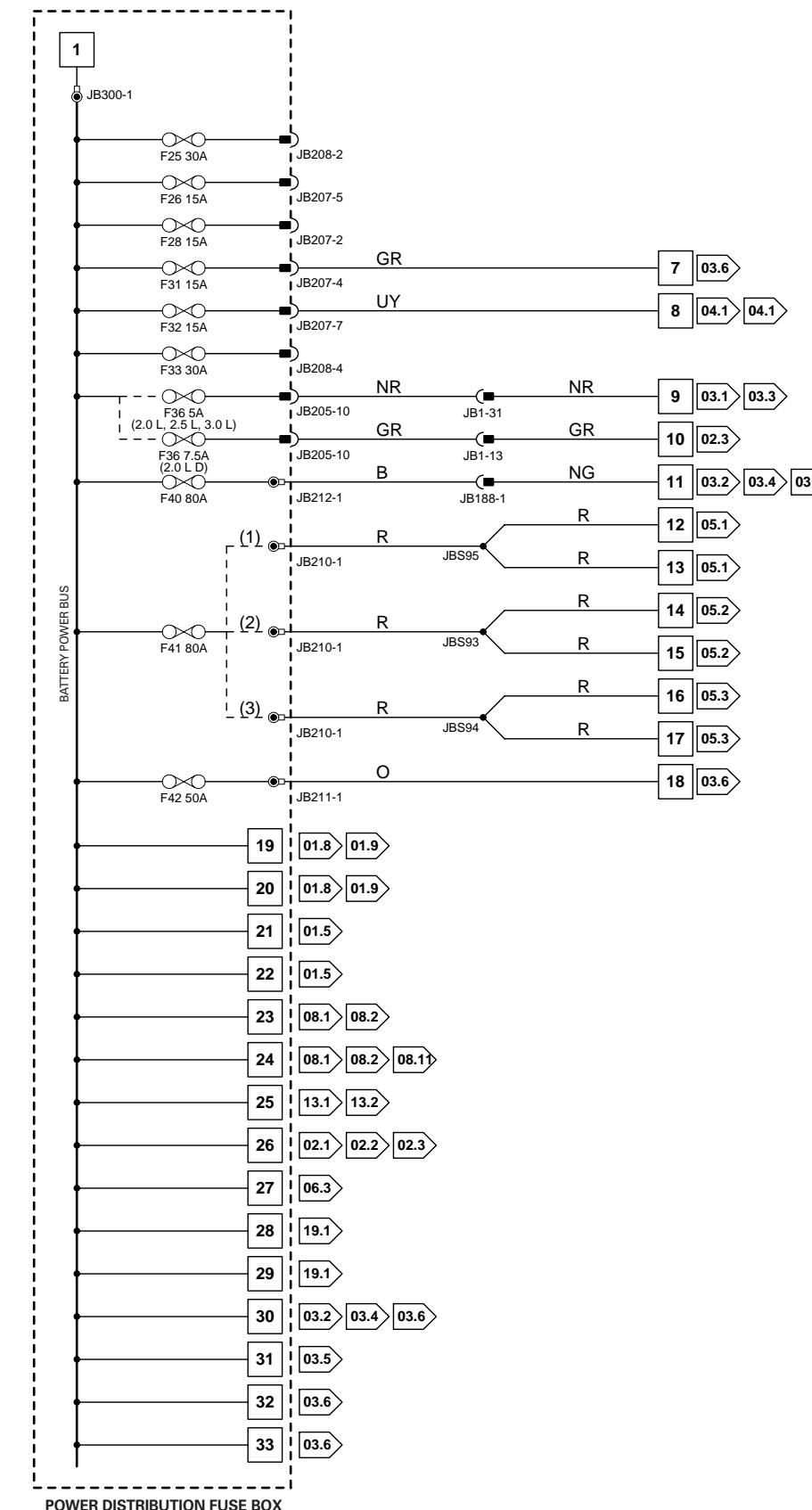


SEDAN

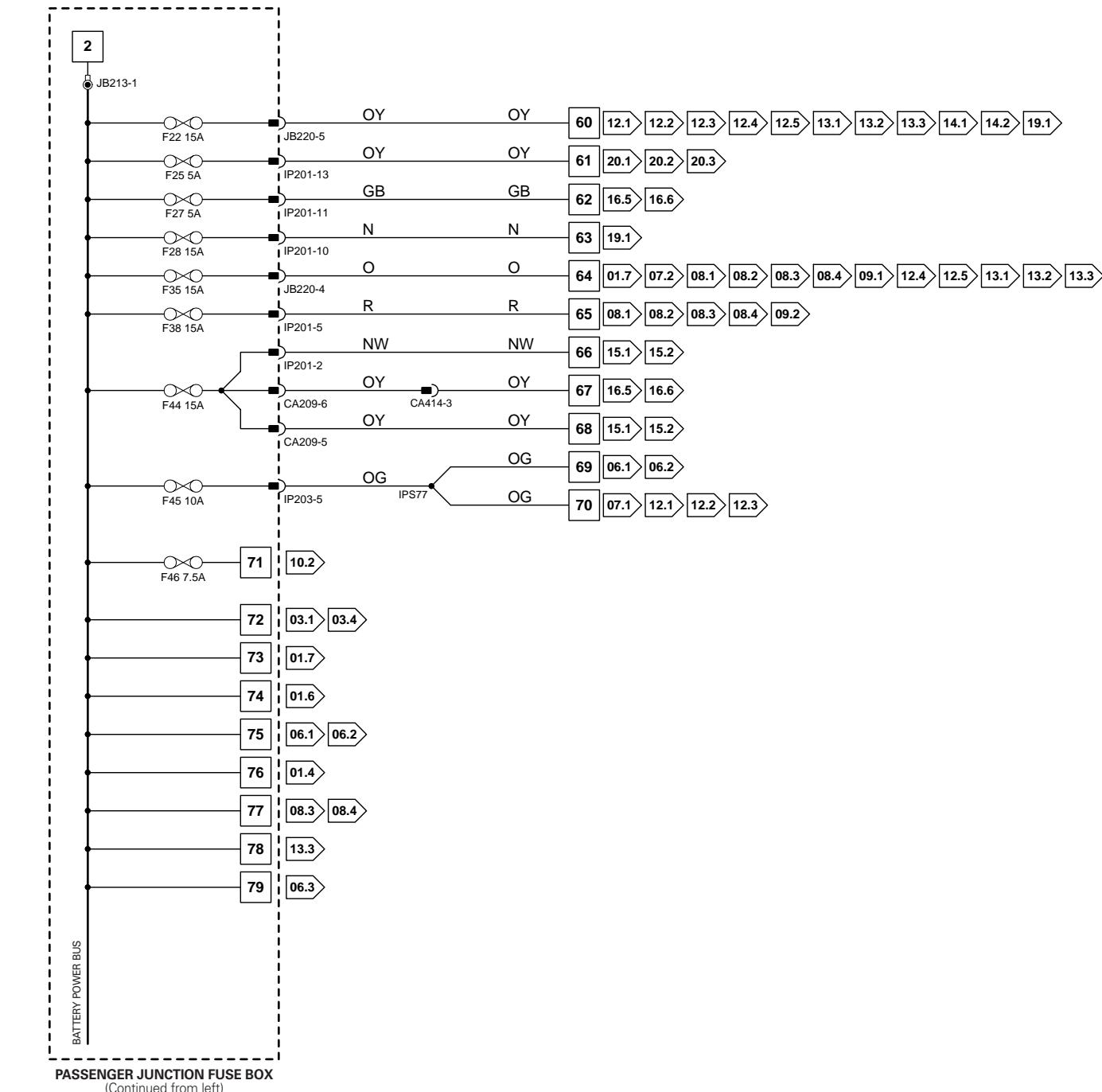
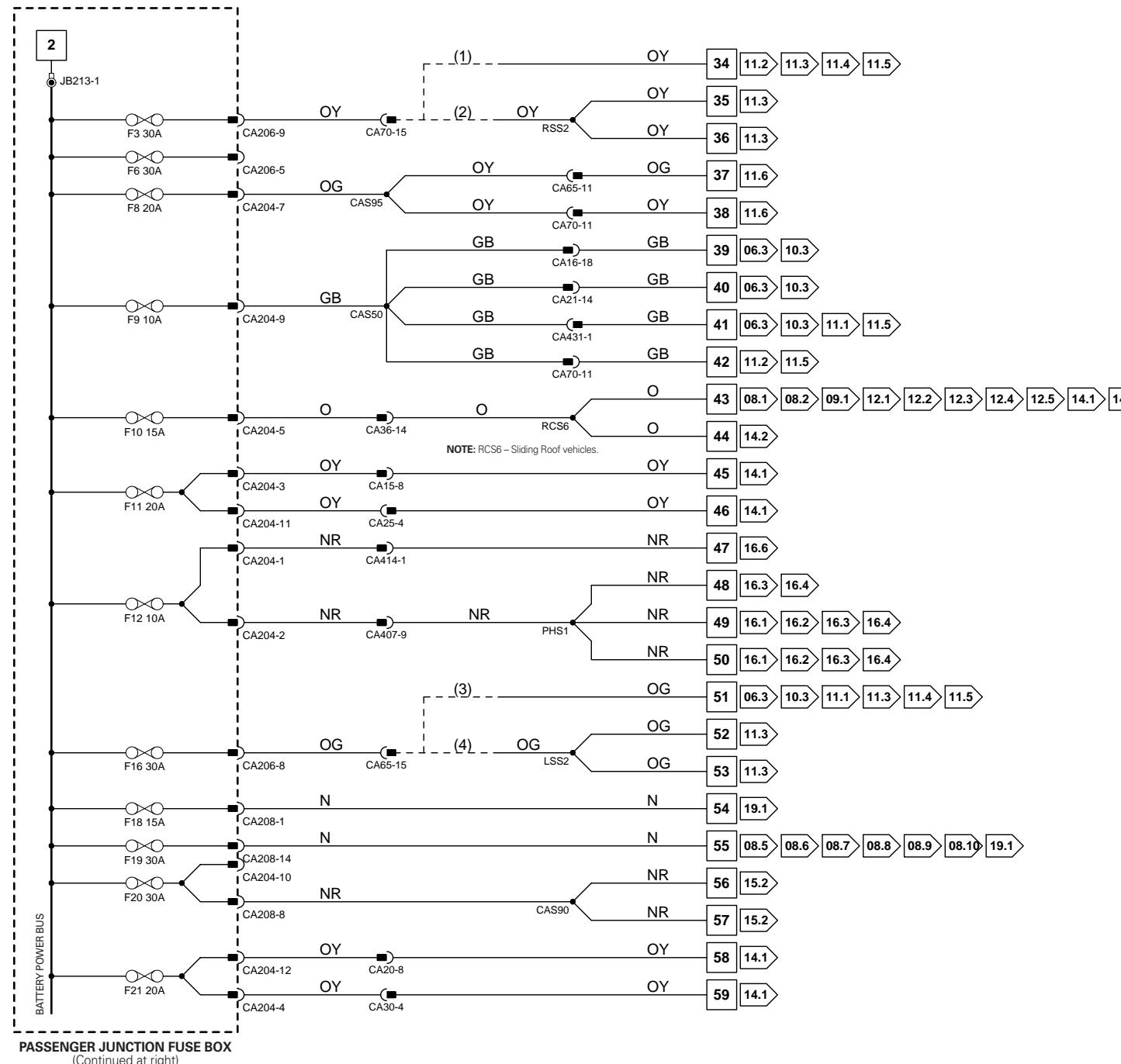


**SPORTS BRAKE**



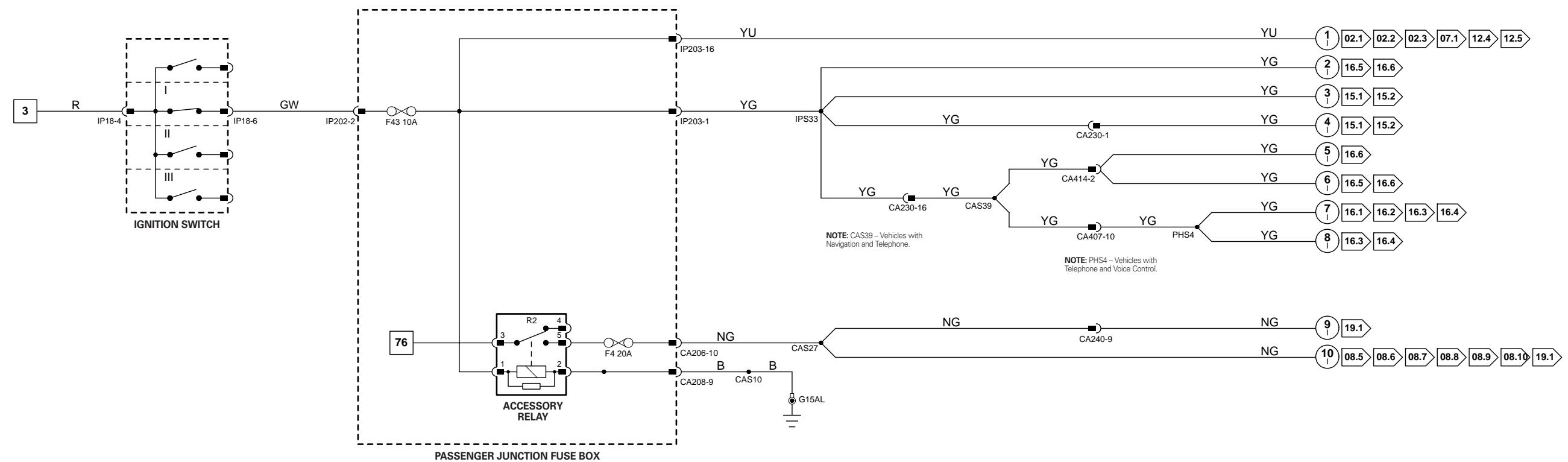
**NOTATION:**

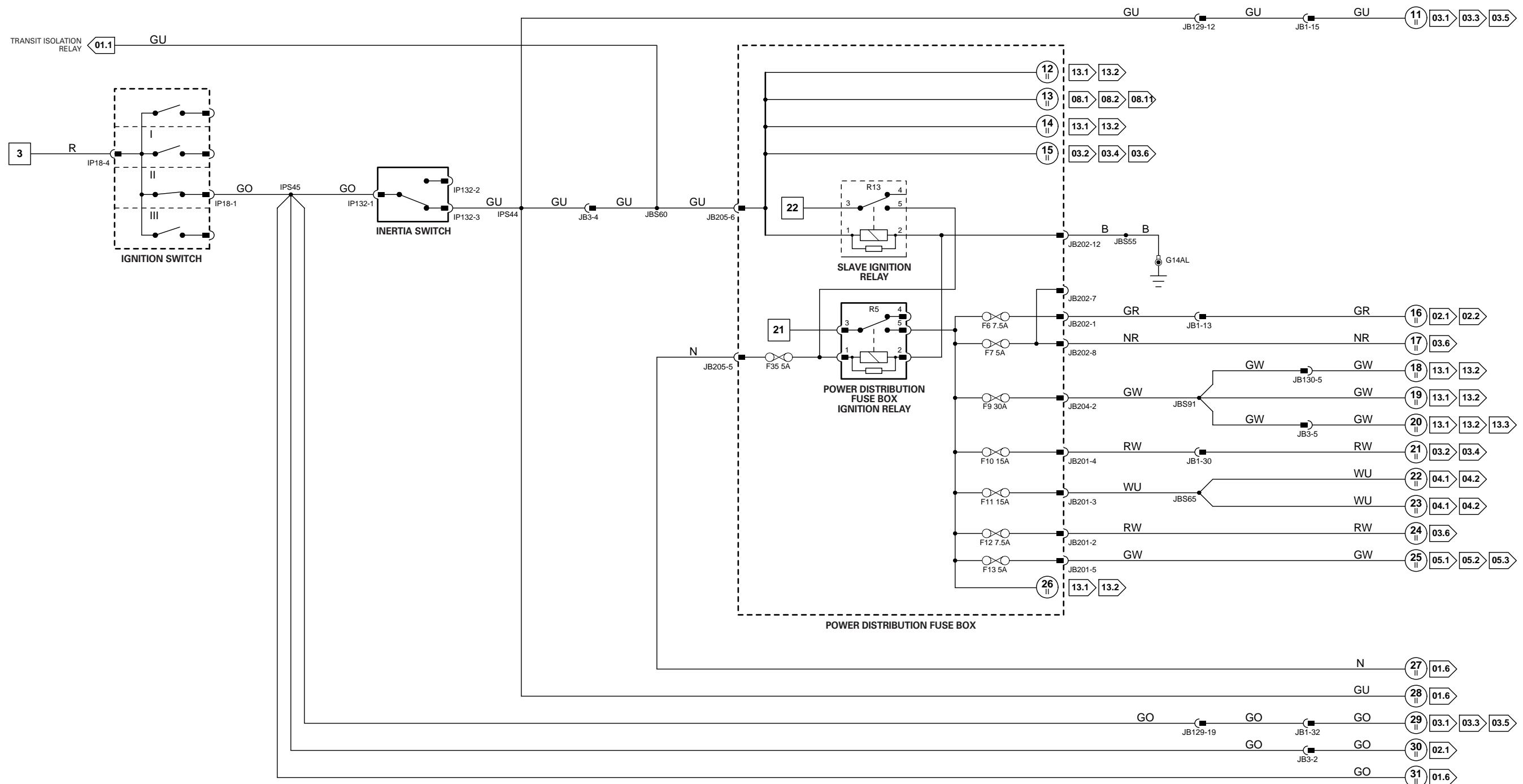
- (1) Vehicles with Anti-Lock Braking only
- (2) Vehicles with ABS and Traction Control
- (3) Vehicles with Dynamic Stability Control

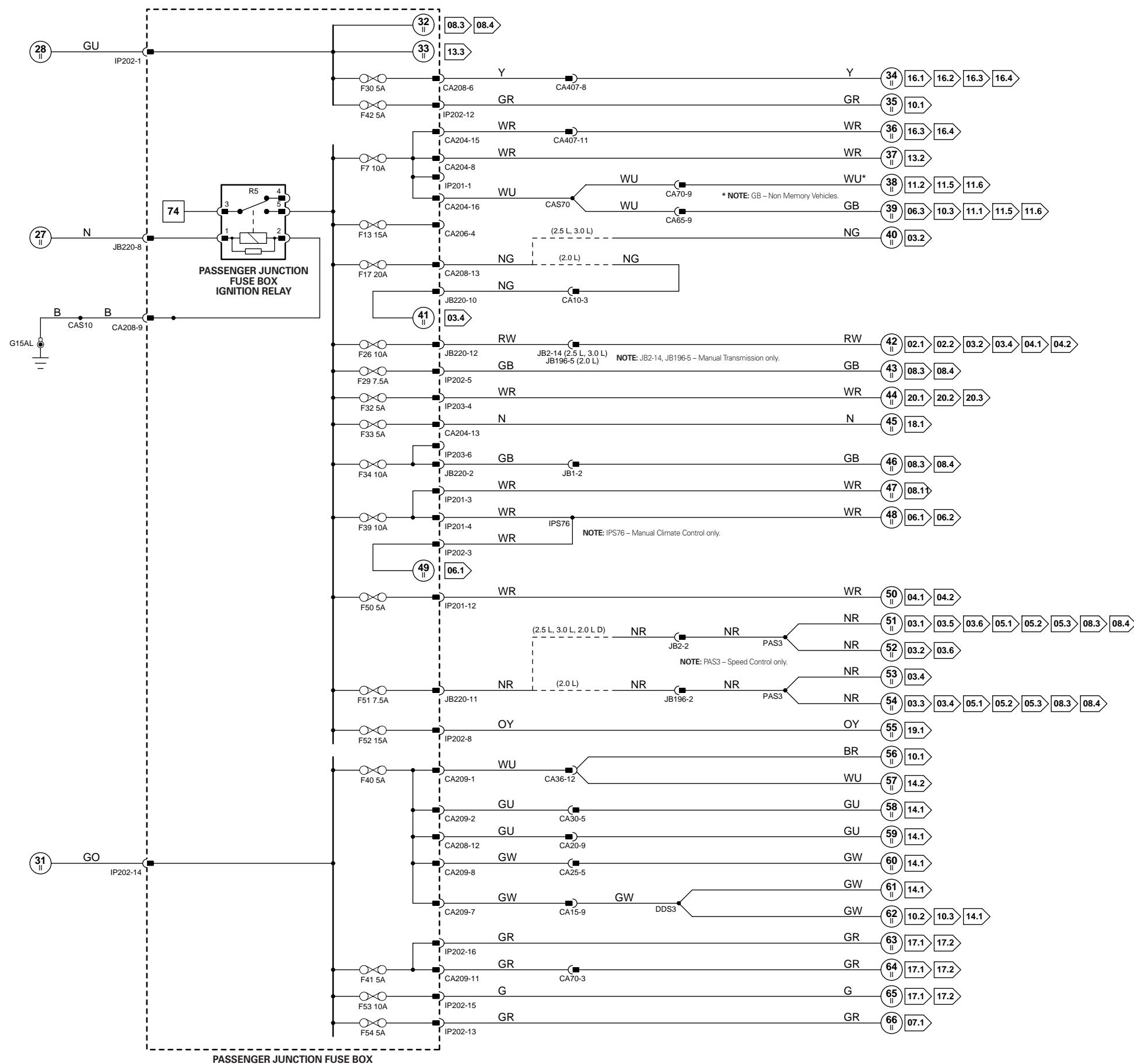


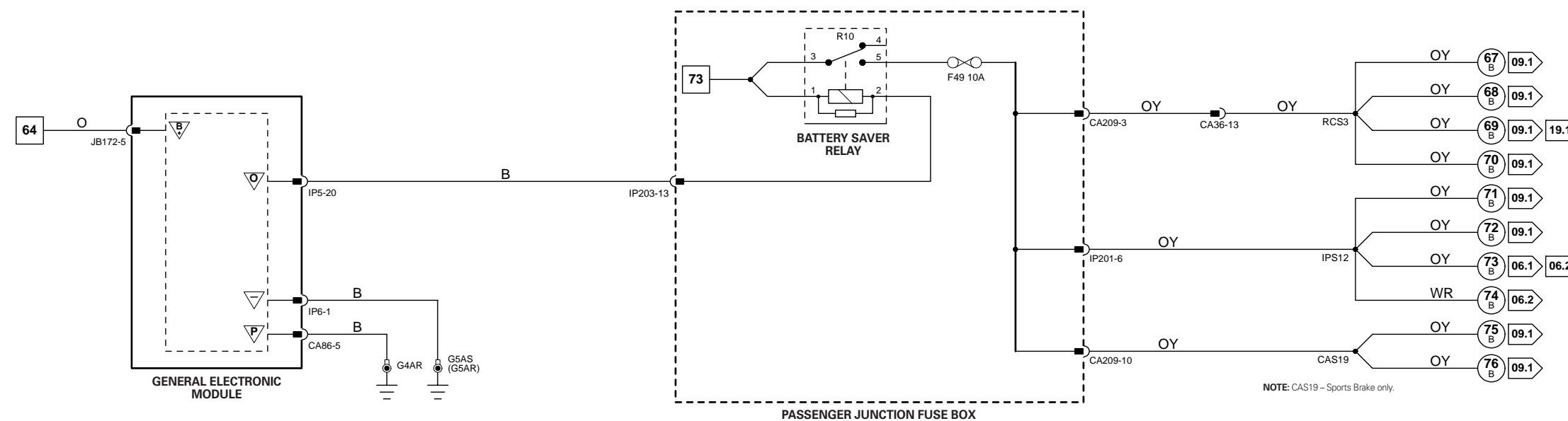
NOTATION

- (1) Passenger Memory Seat; RH Seat without Lumbar
(2) RH Seat with Lumbar
(3) Driver Memory Seat; LH Seat without Lumbar
(4) LH Seat with Lumbar









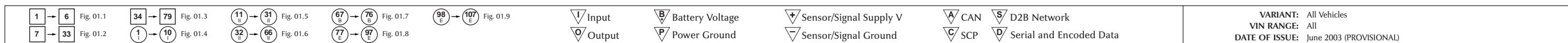
NOTE: "Battery Saver" provides automatic switch-off of the Courtesy Lamps after 10 minutes and automatic switch-off of the Demand Lighting and Audible Warning after 30 minutes.

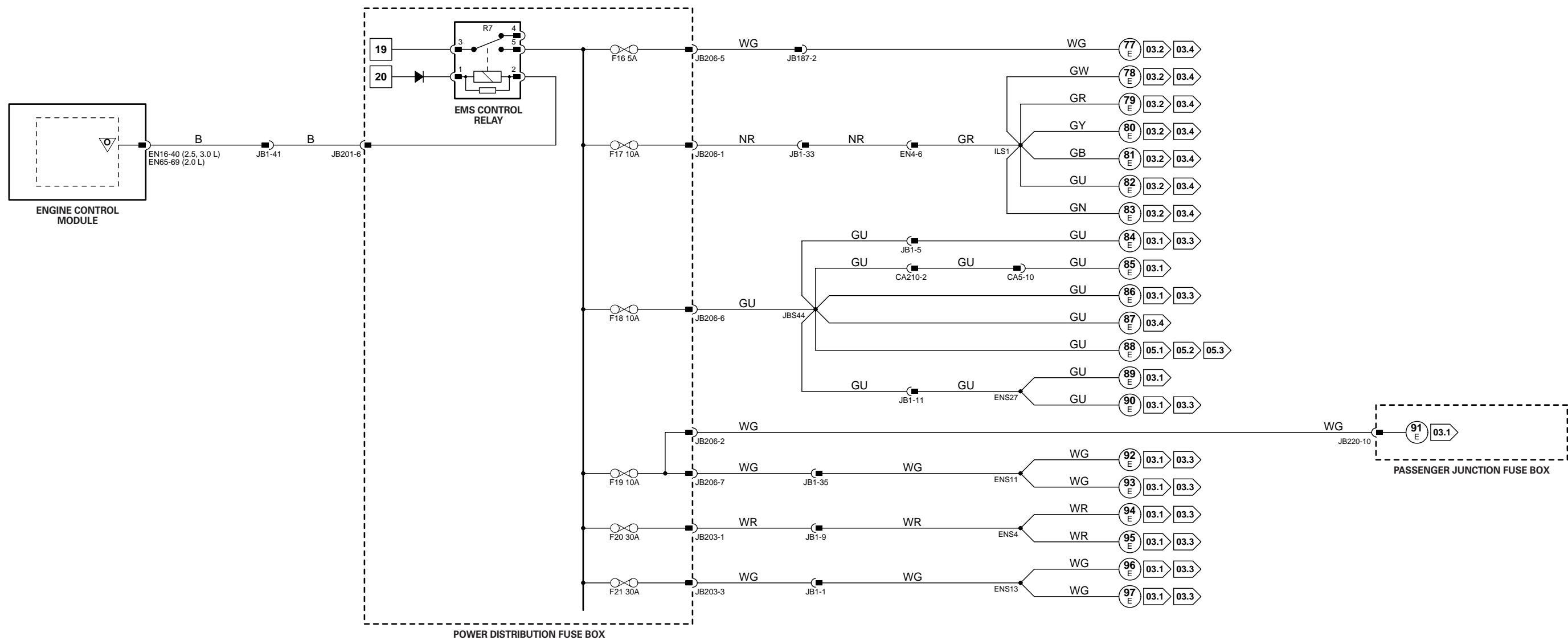
GEM timers are started when the Ignition Key has been switched to the I (Accessory) or 0 (Off) position. When the timers expire at 10 and 30 minutes, the feature(s) is/are switched off.

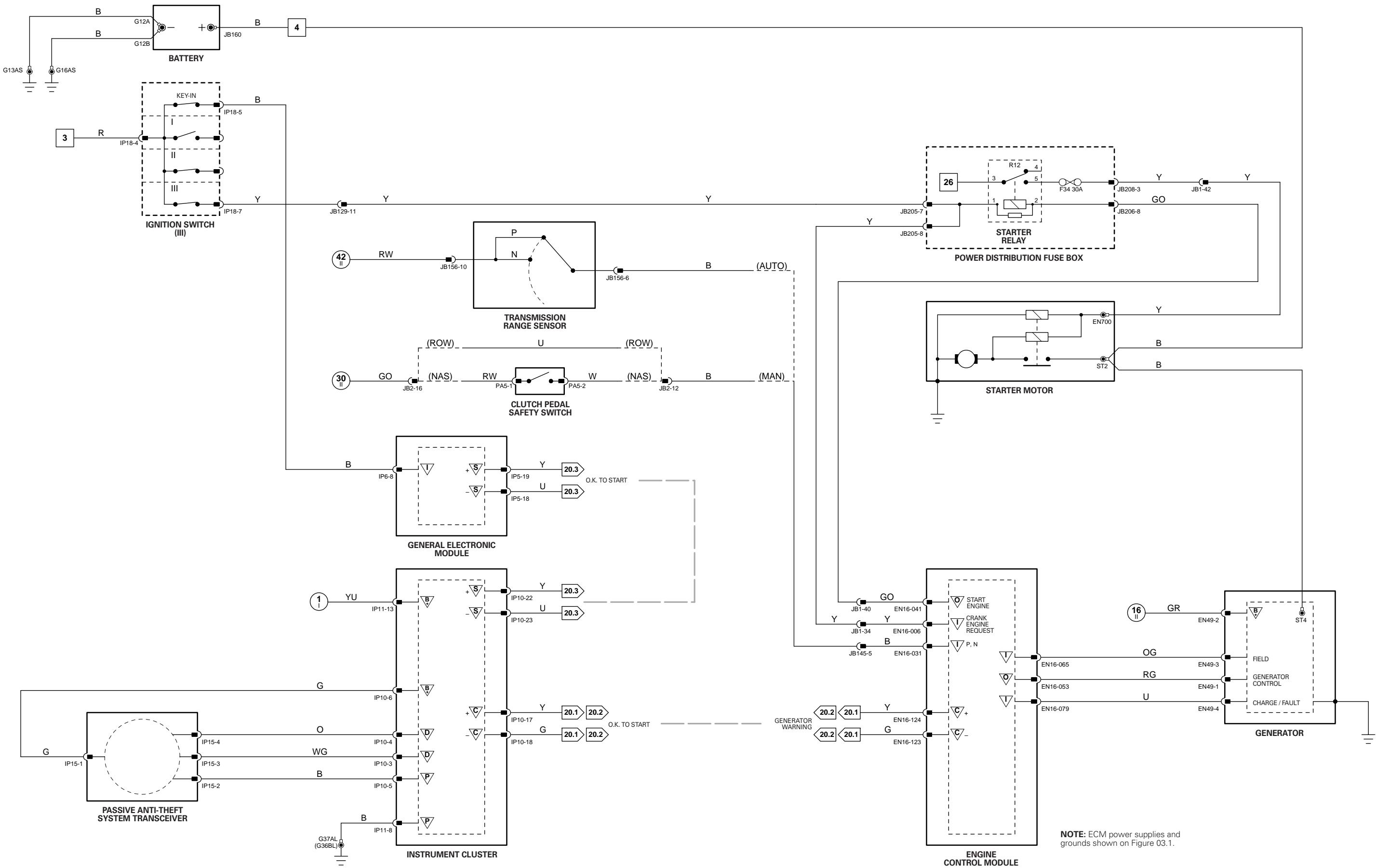
When one of the following actions is detected, all features are enabled, and the Battery Saver timer is reset:

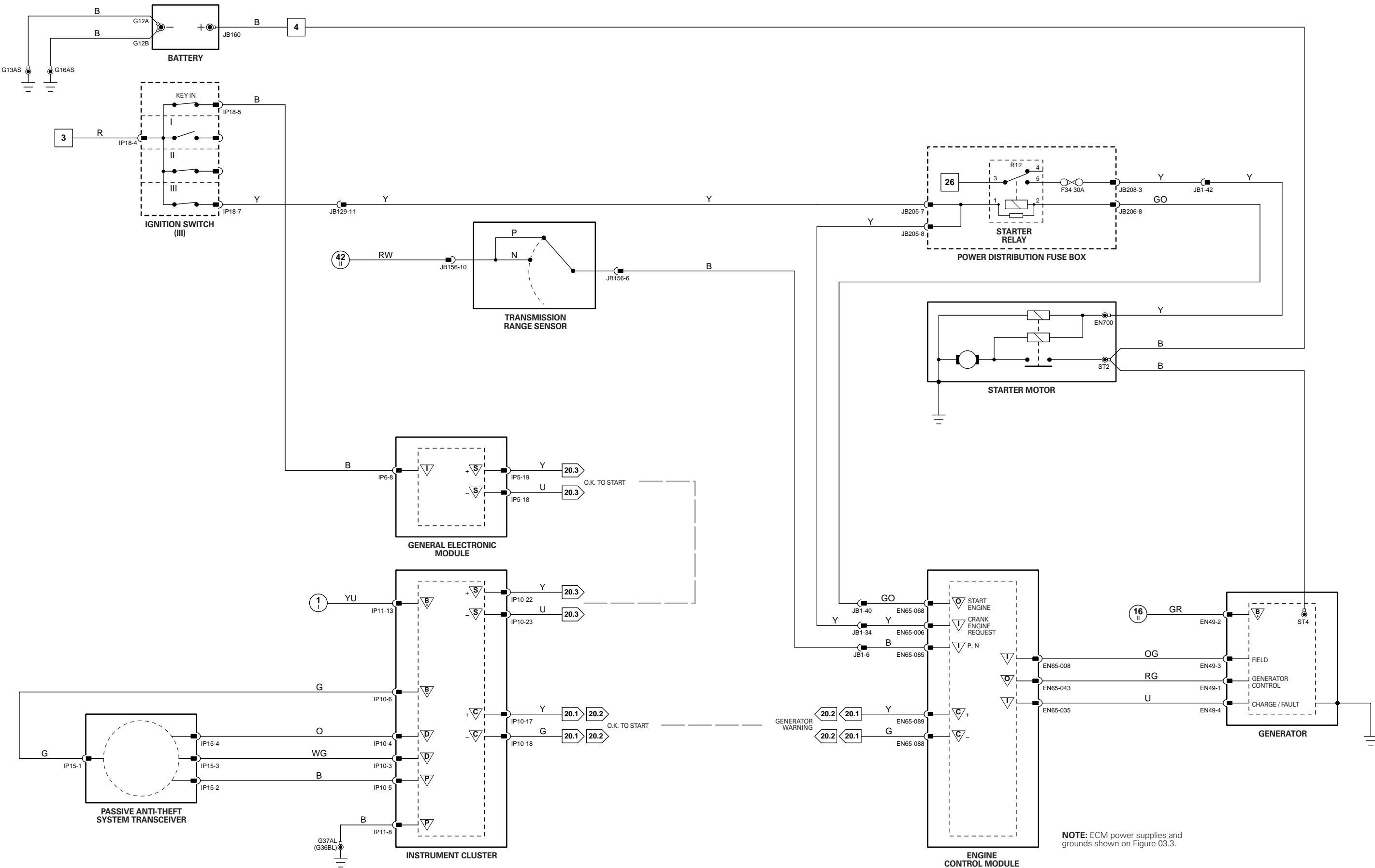
- The Ignition is switched to II (run) or III (start).
 - Any door or trunk lid becomes ajar or is opened.
 - Any unlock is activated.

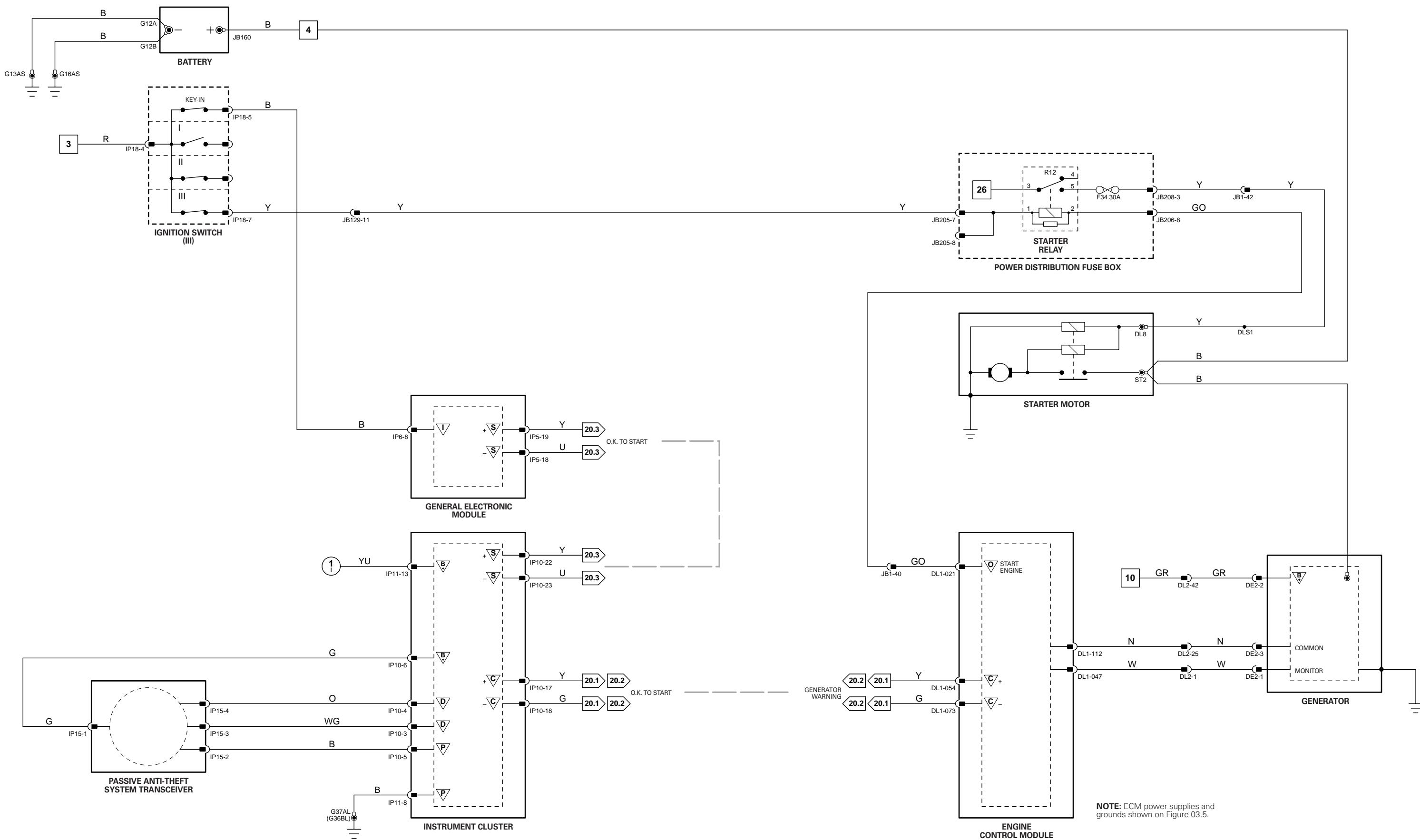
Battery Saver is also active when GEM diagnostic mode is entered.

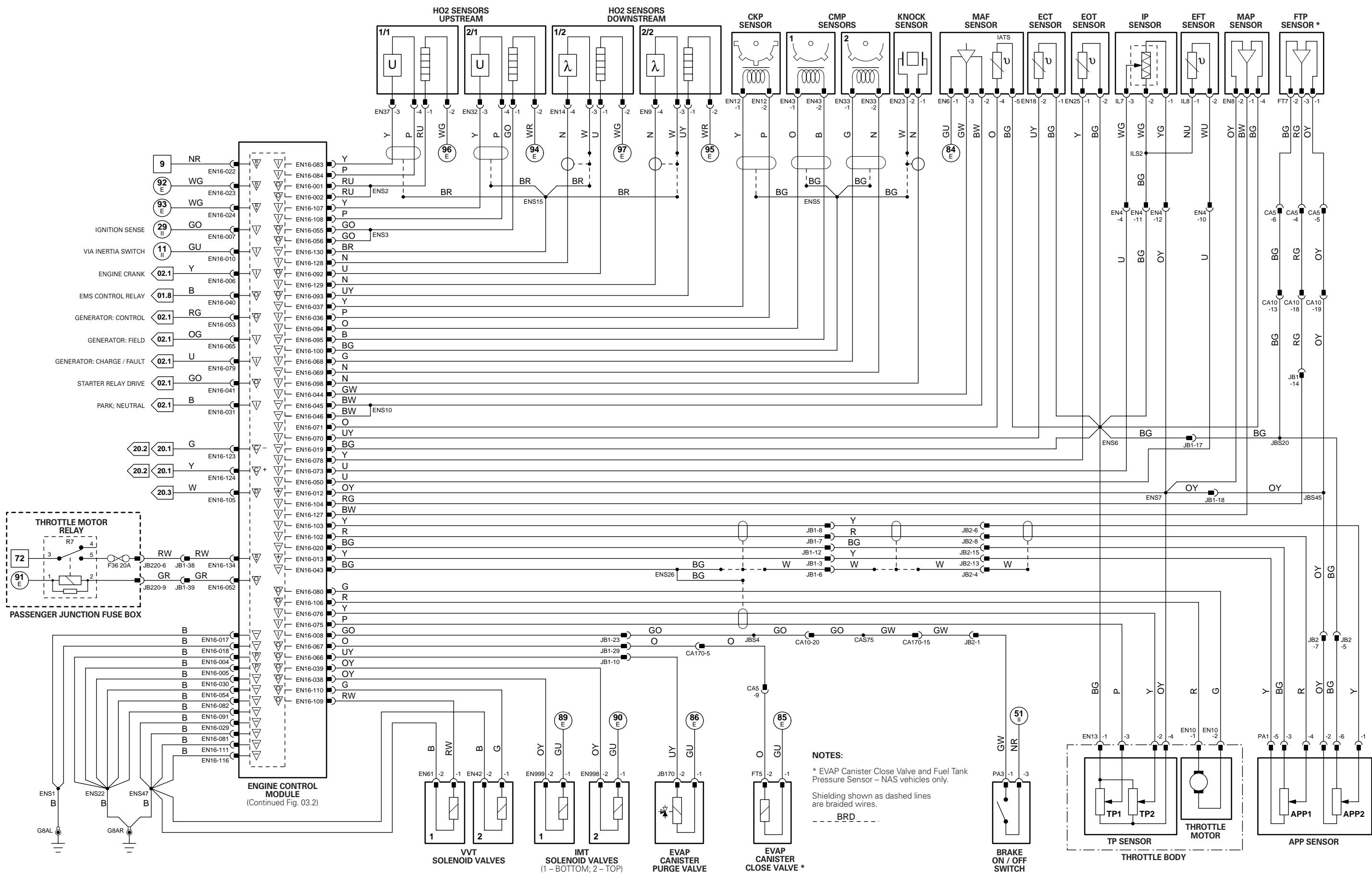


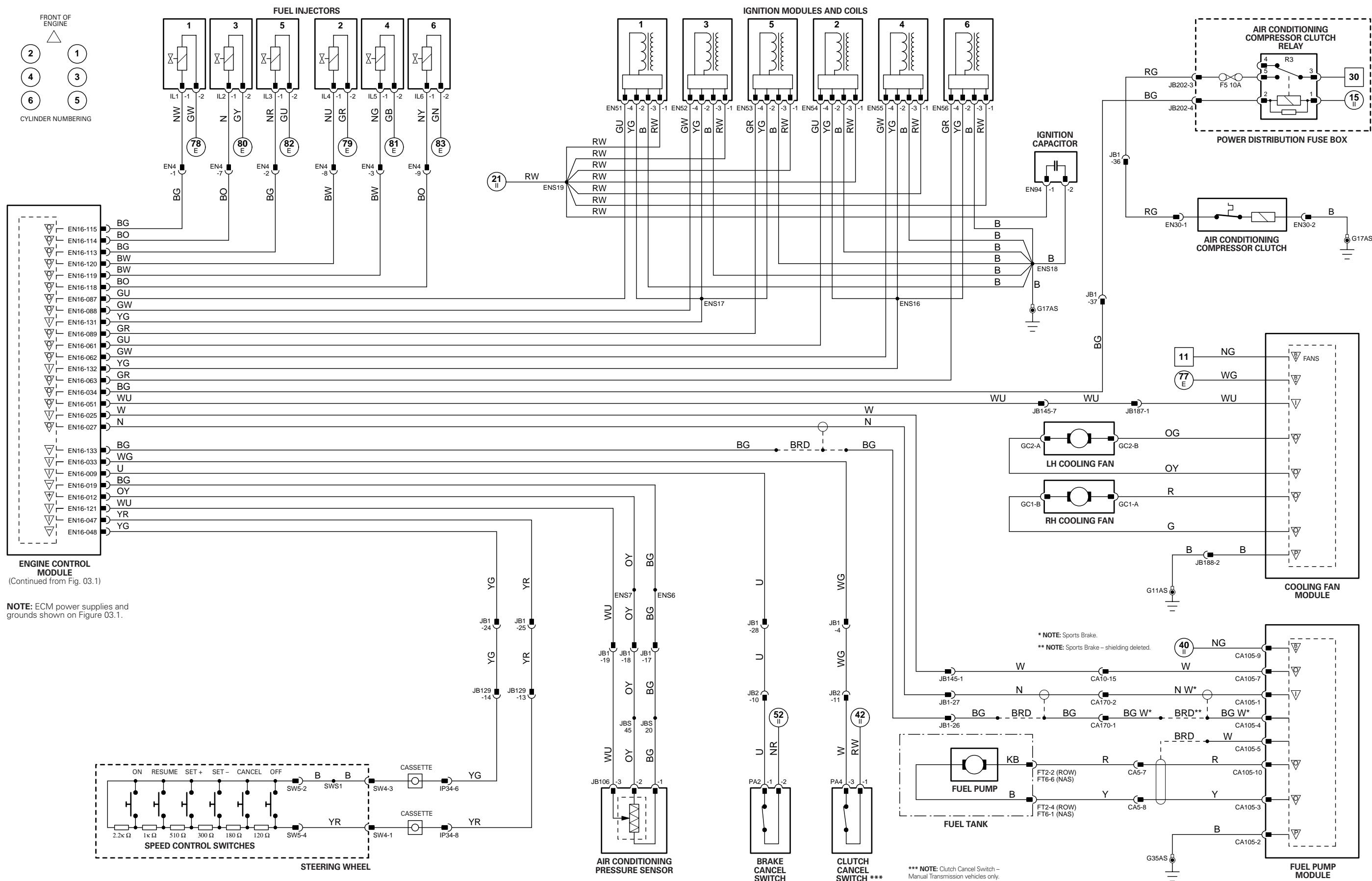


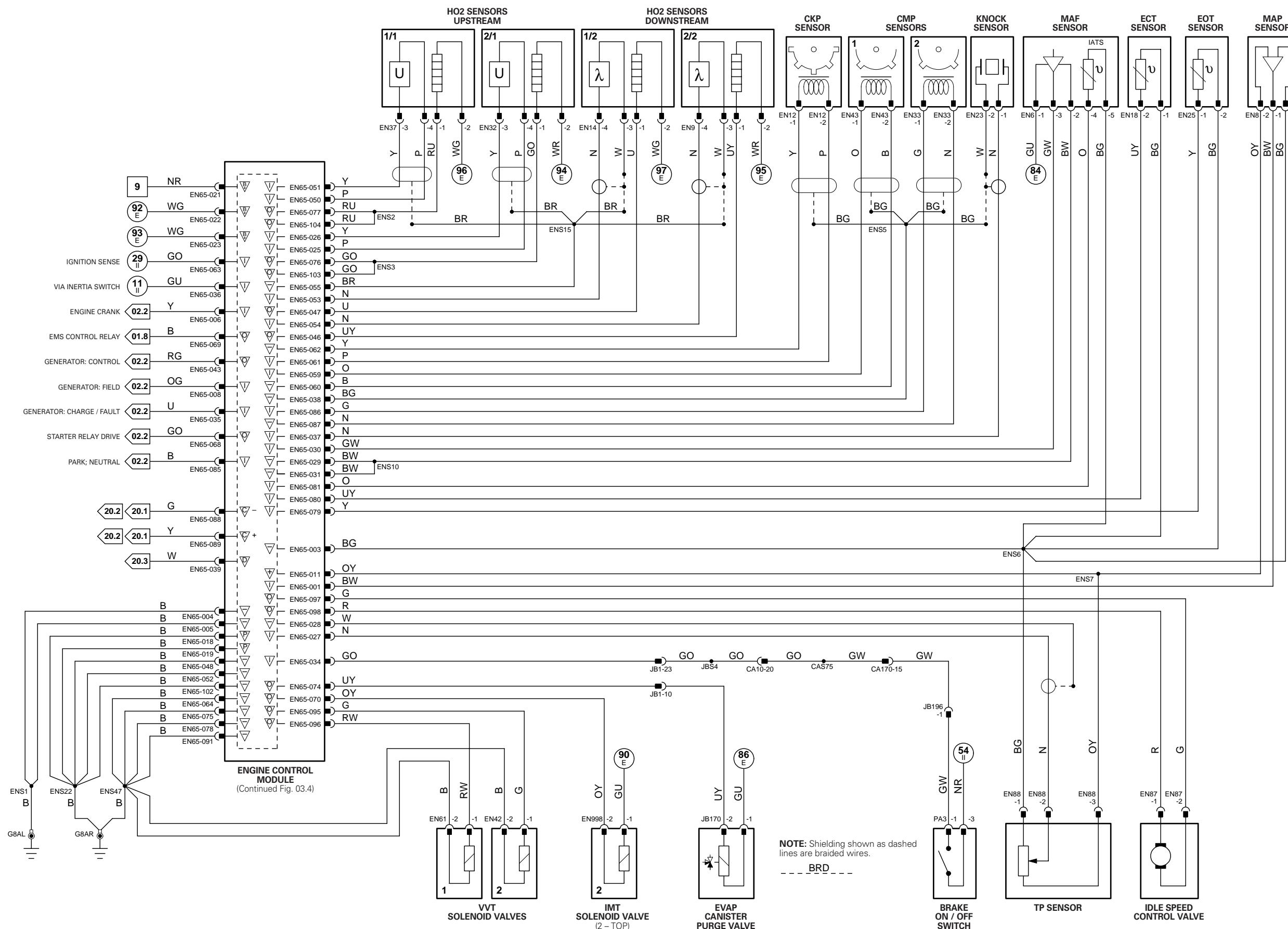


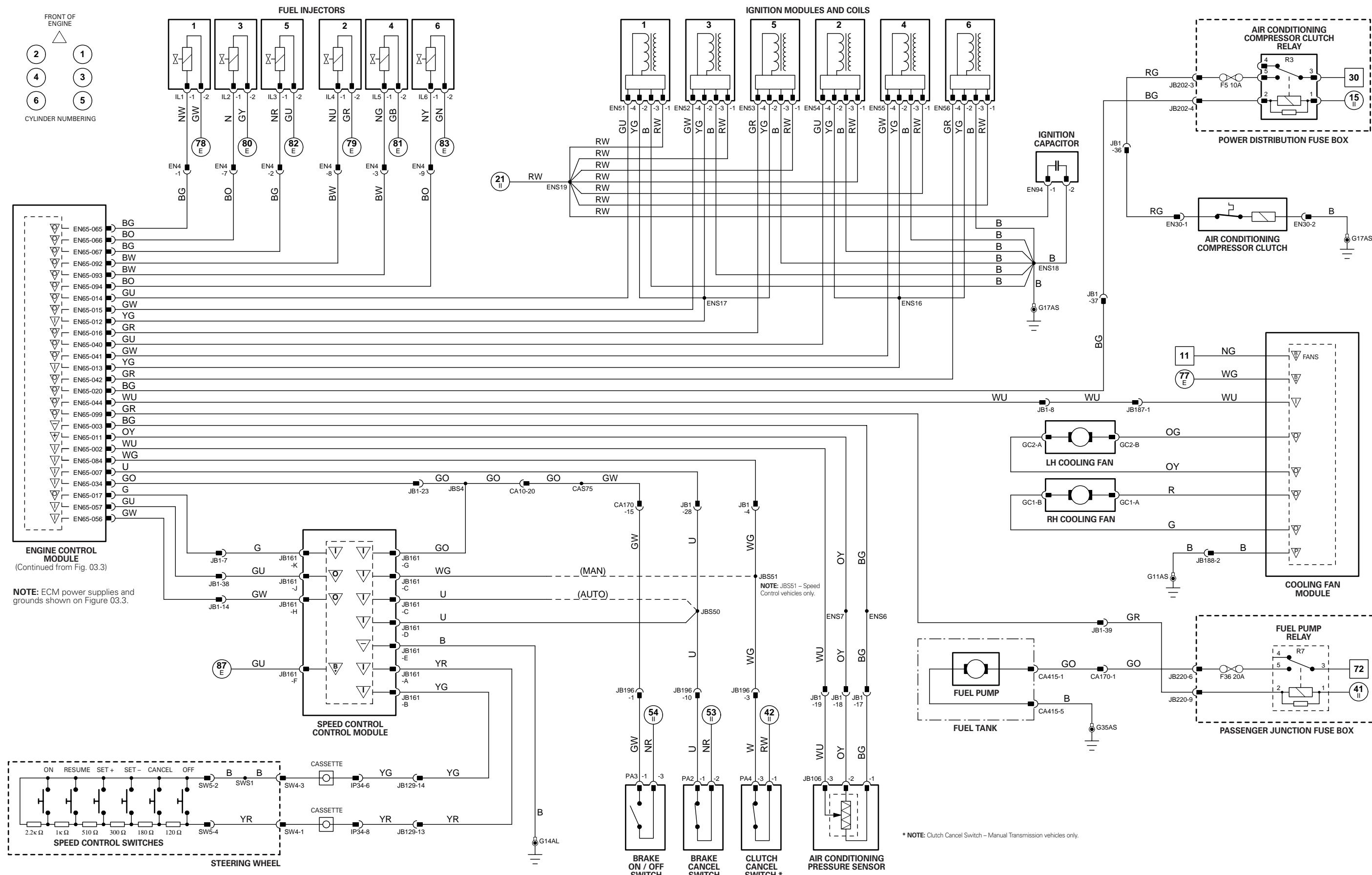


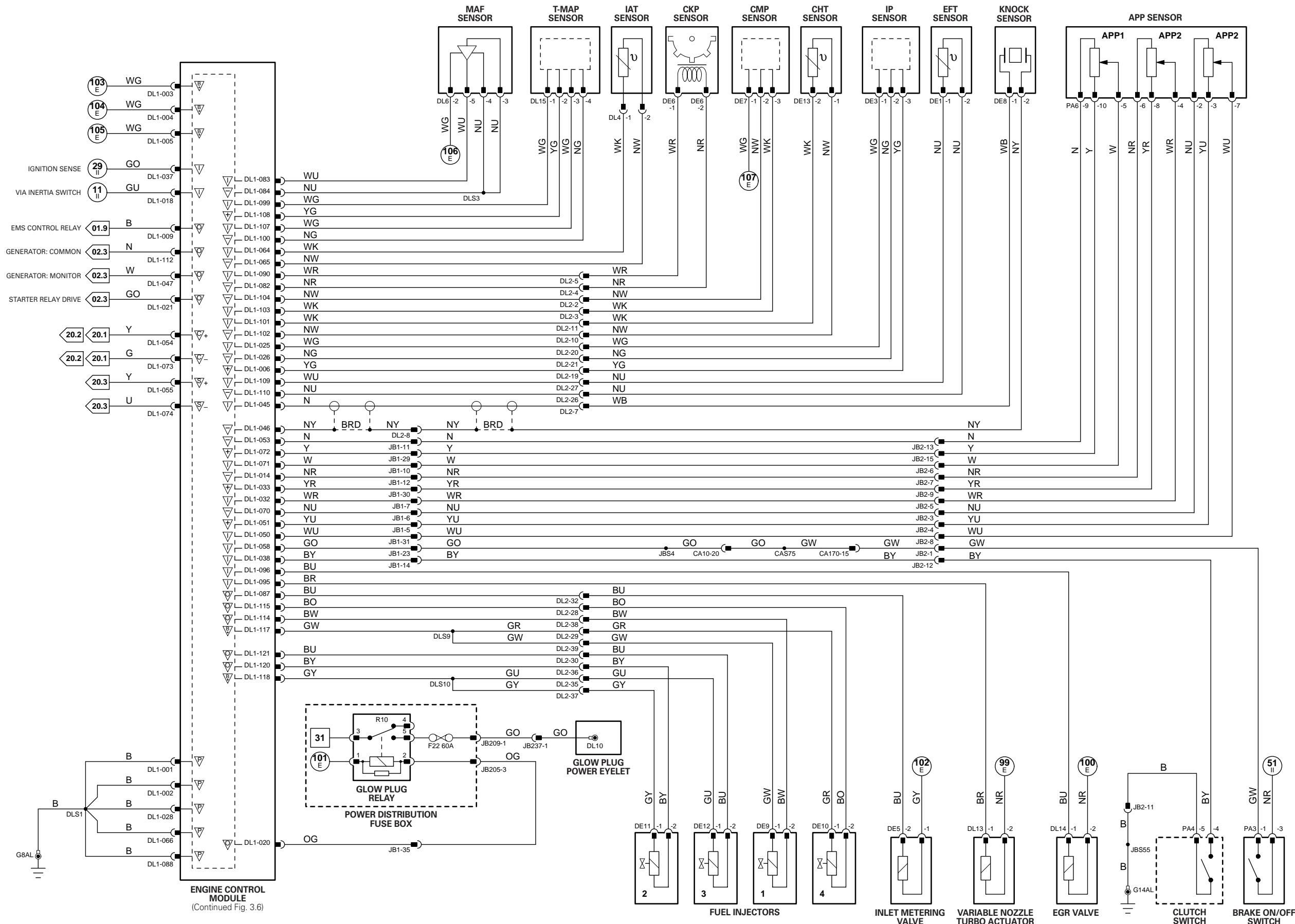


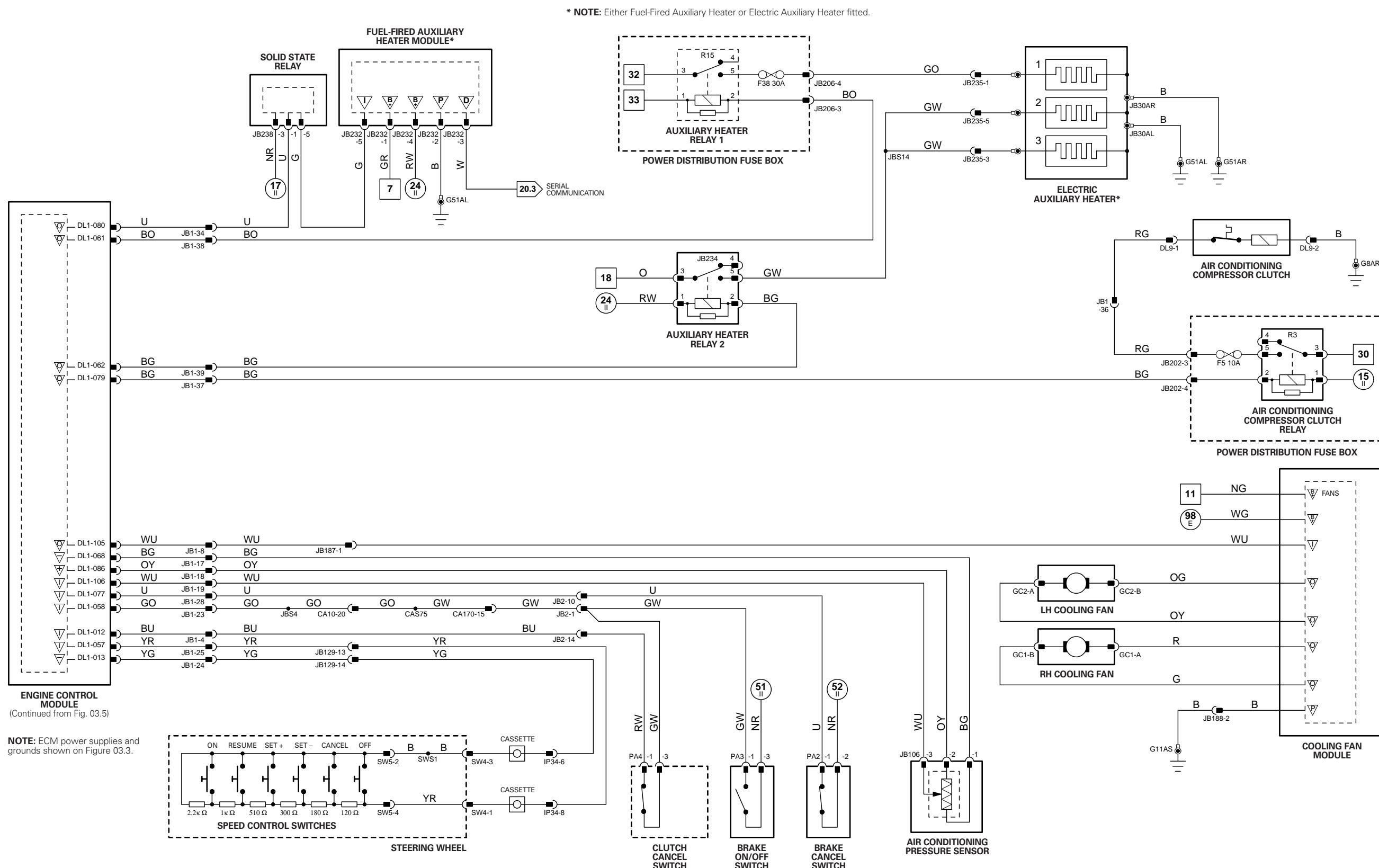


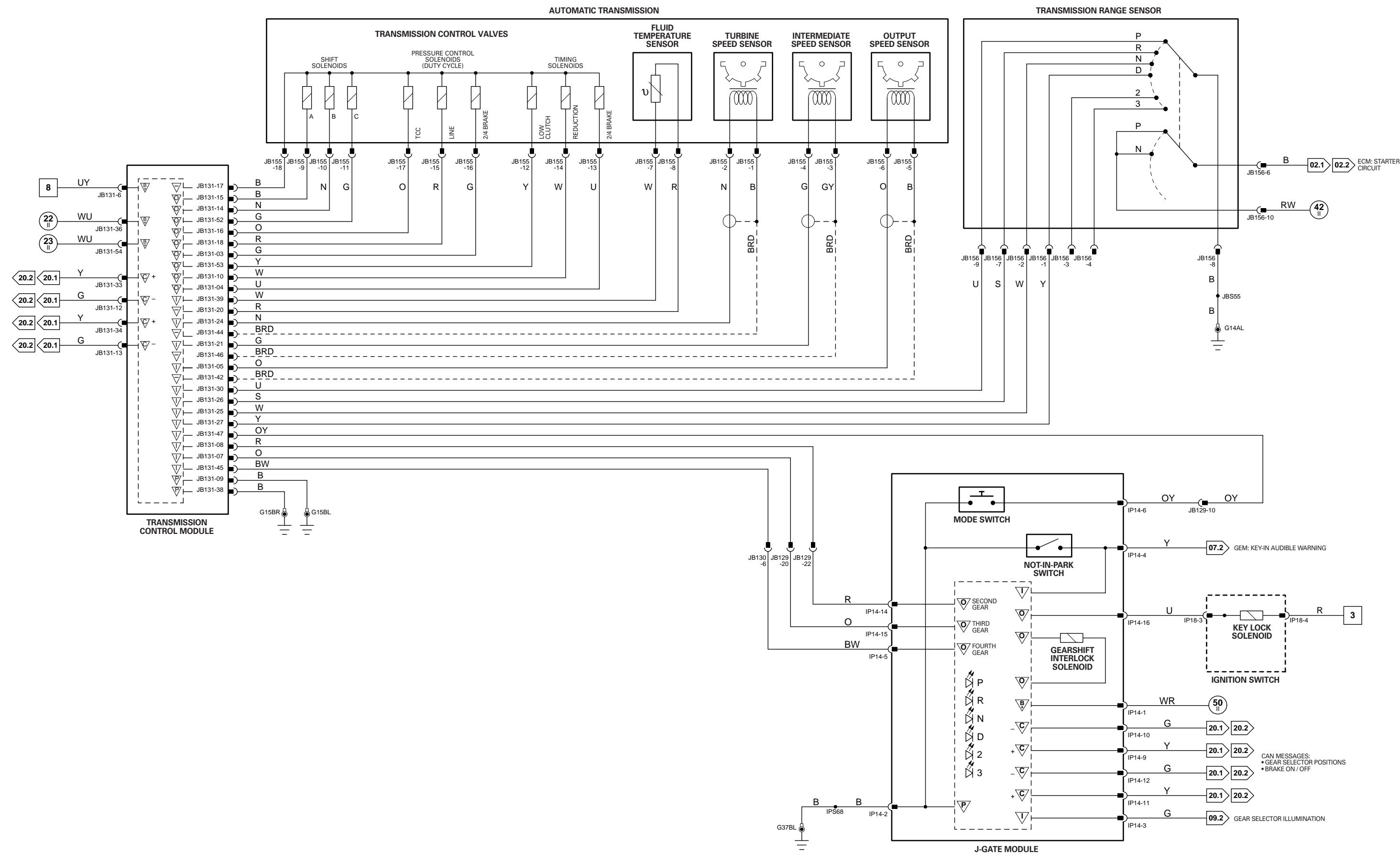


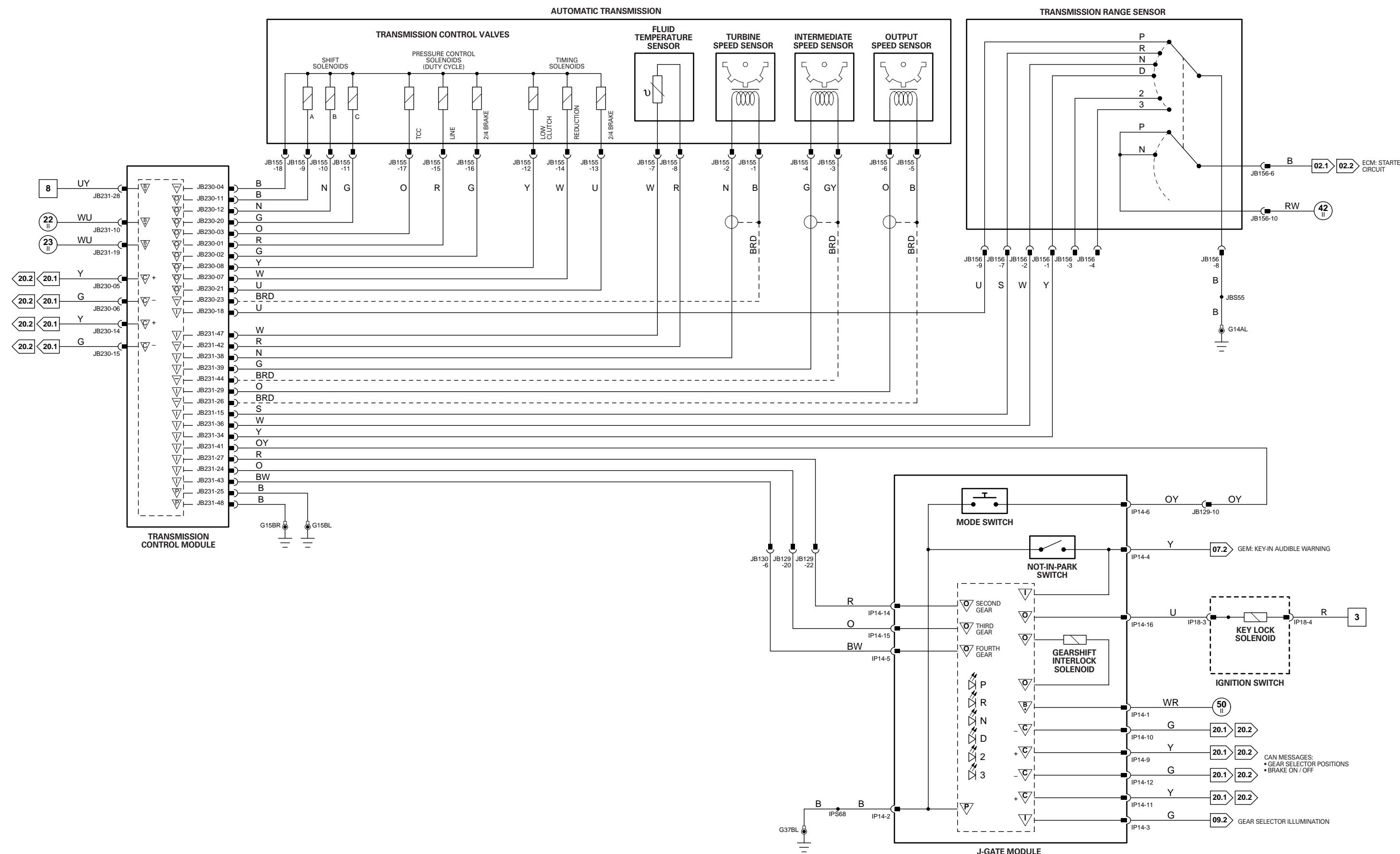


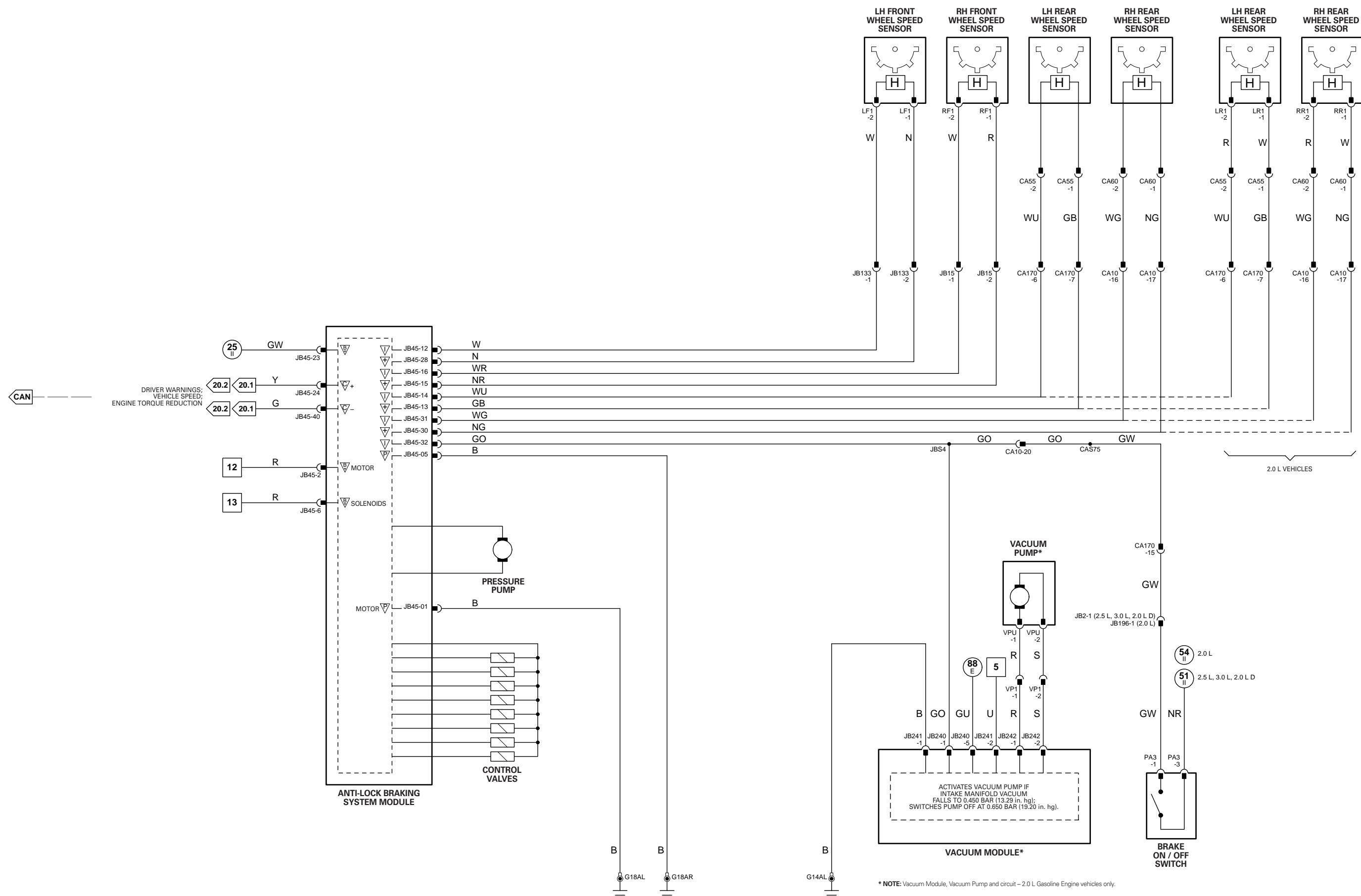


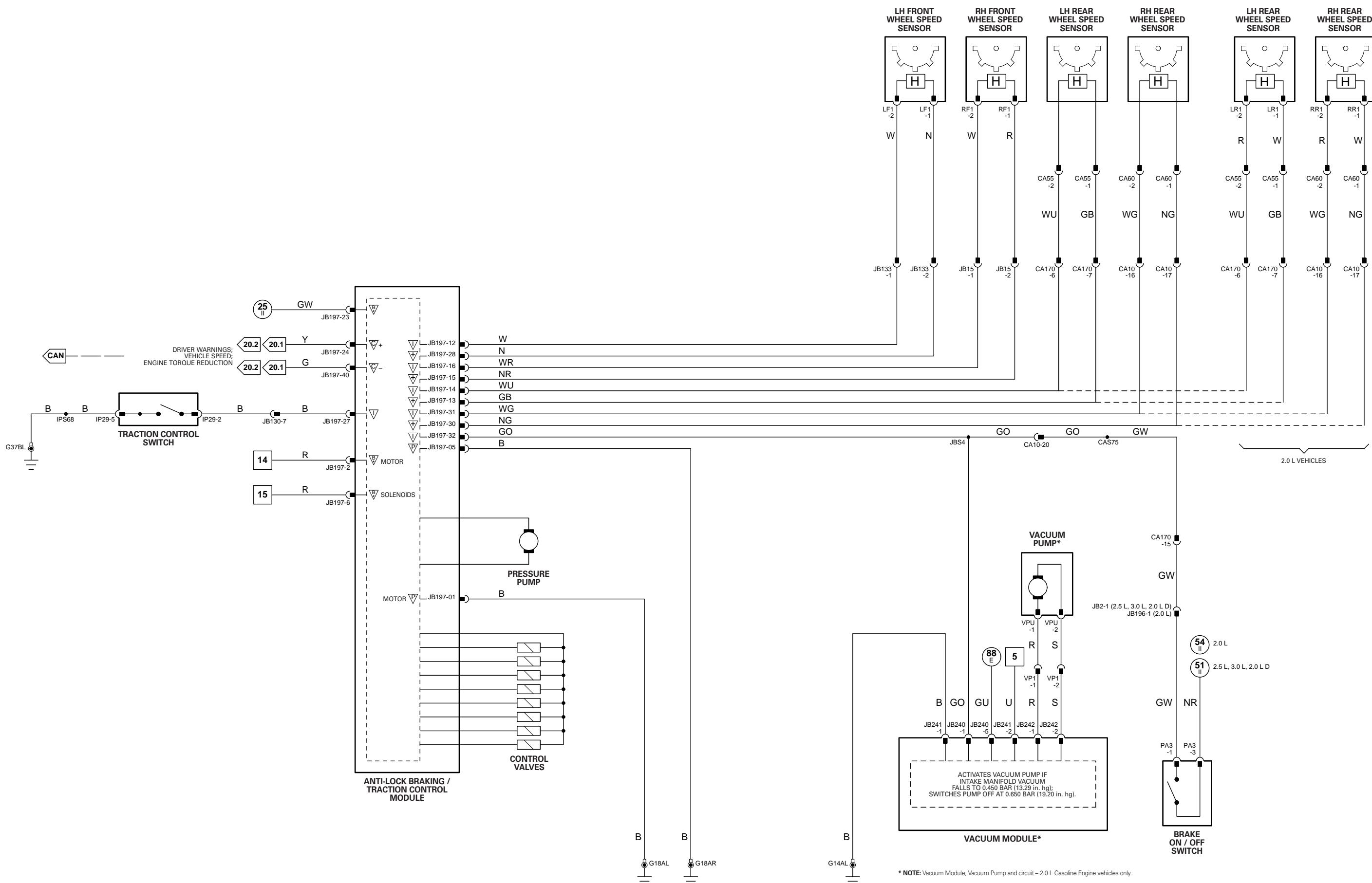


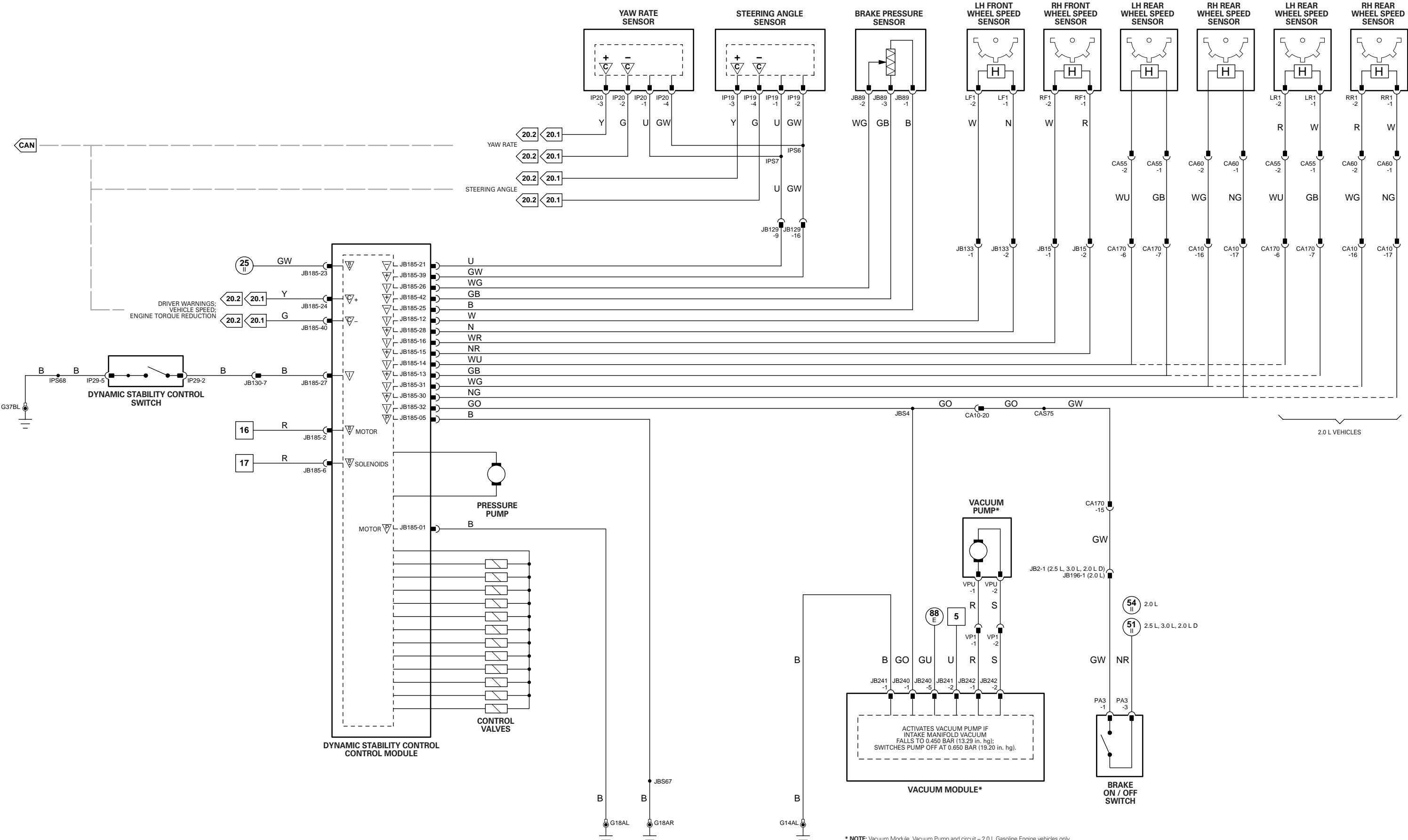


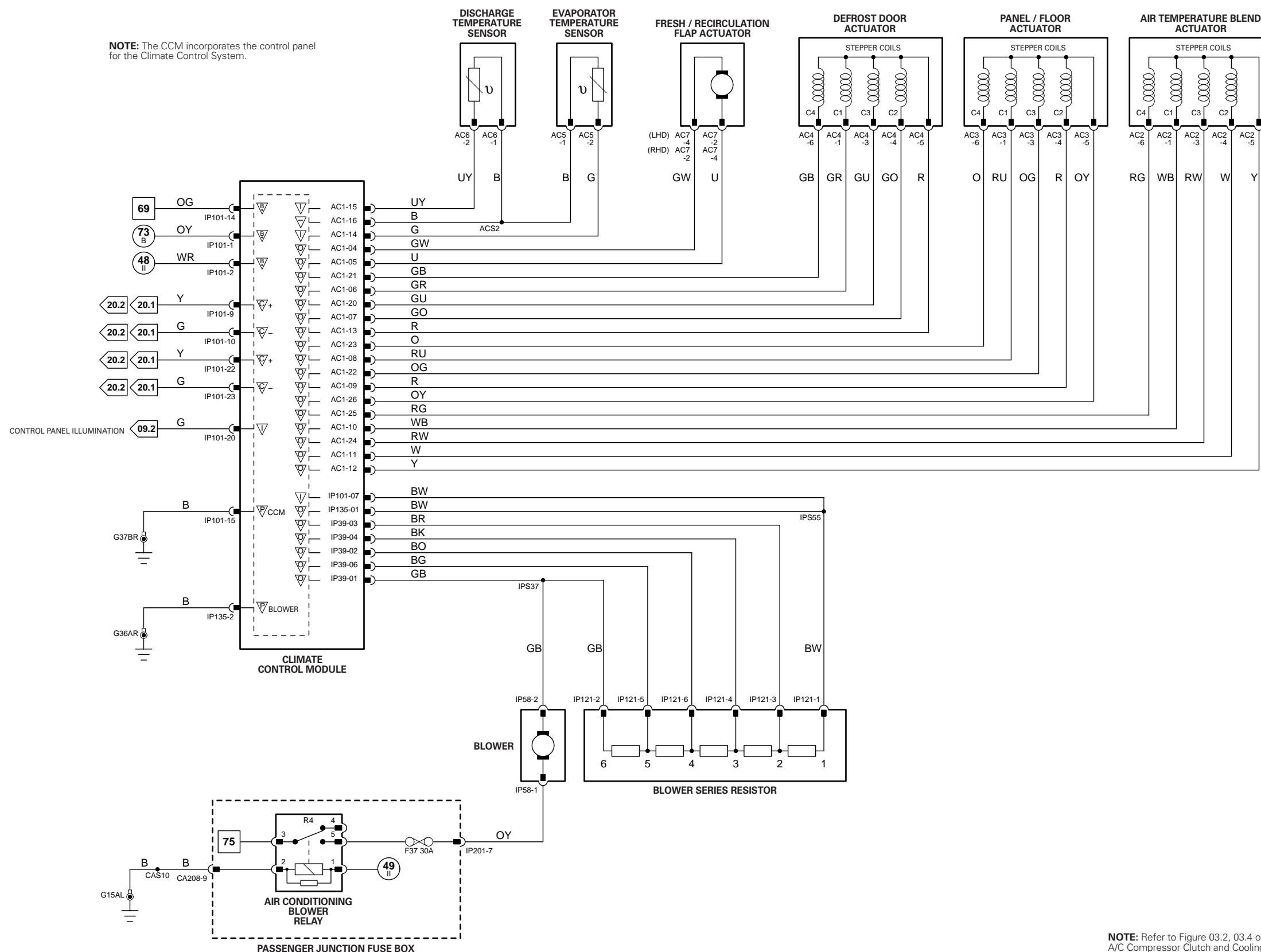


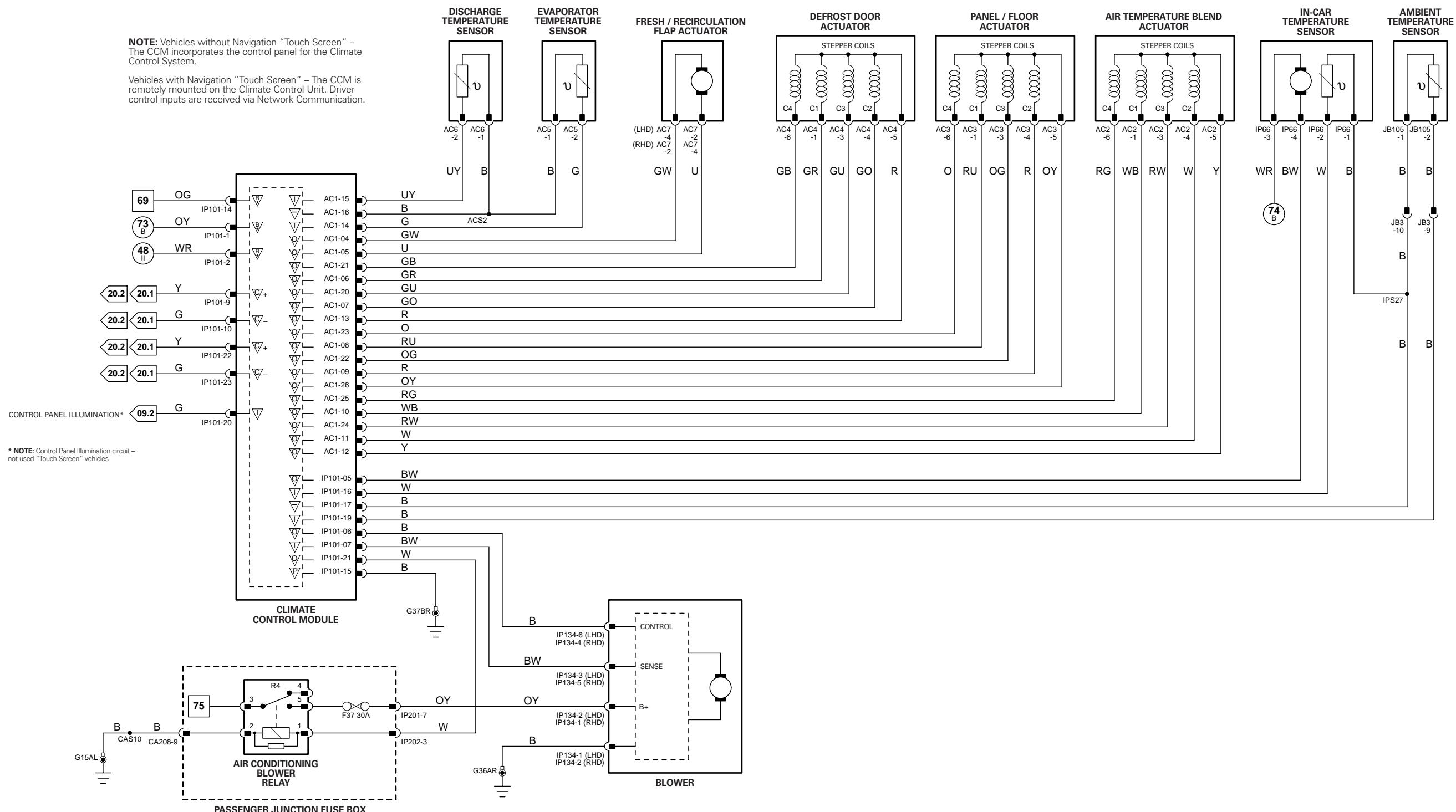


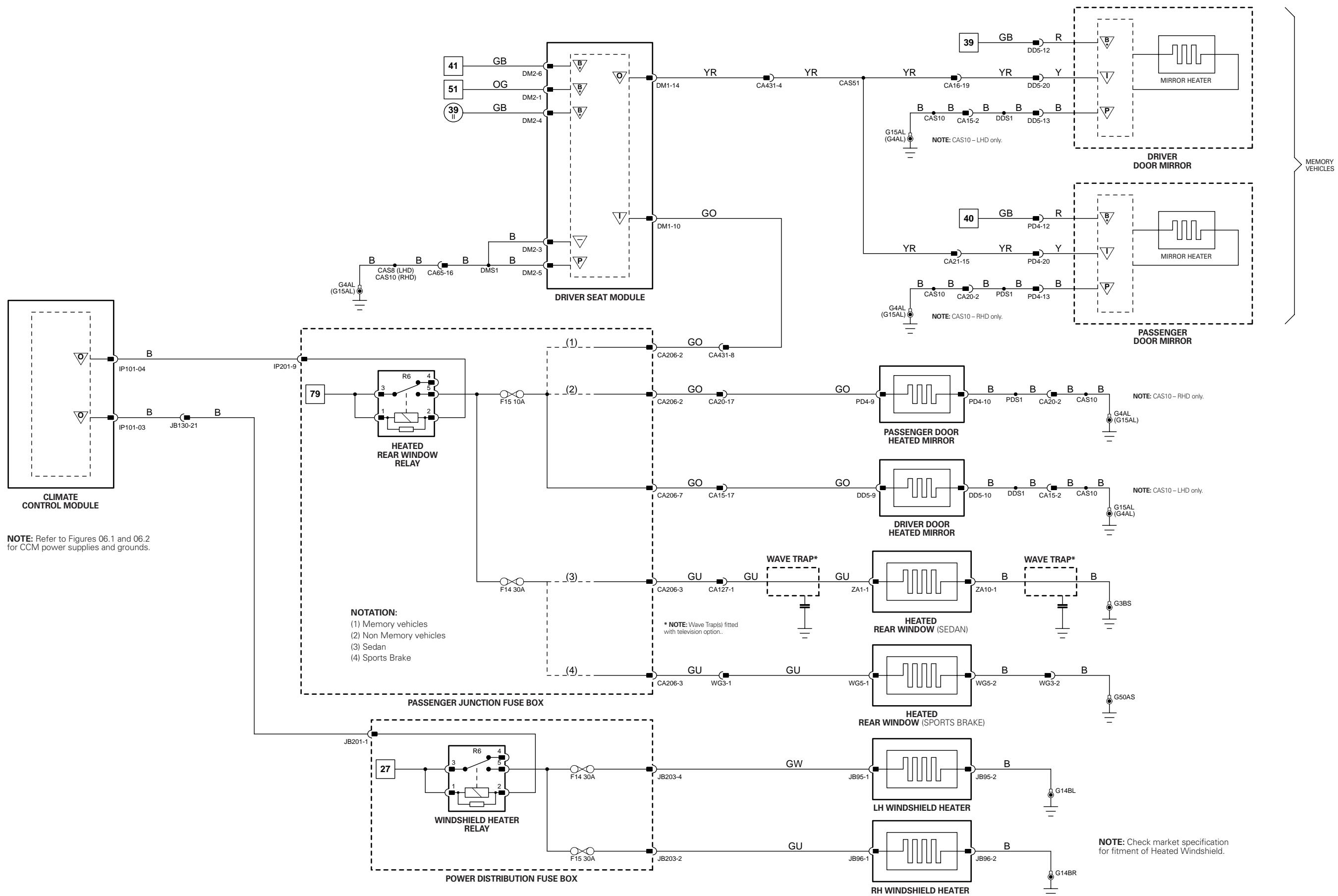


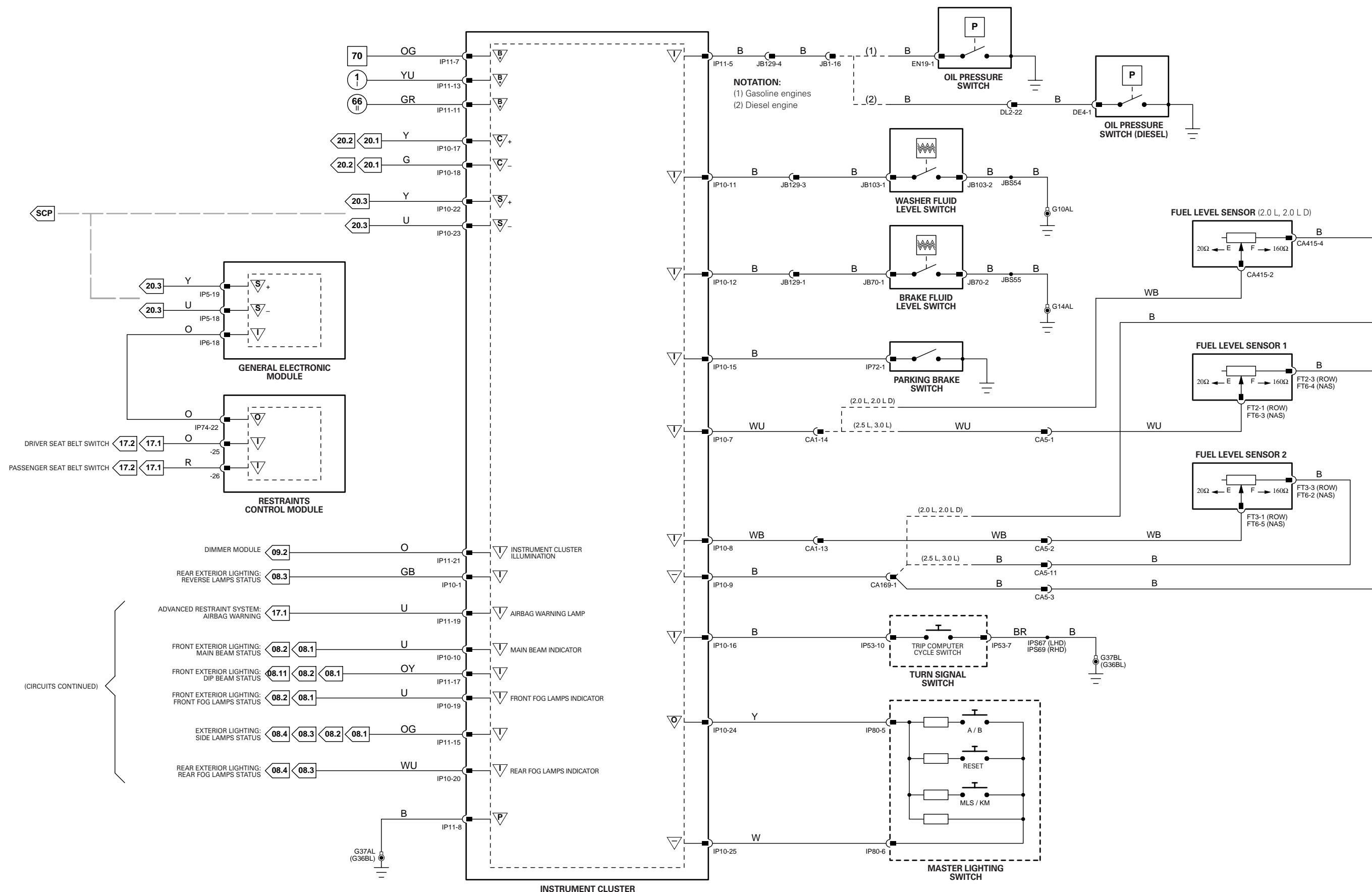


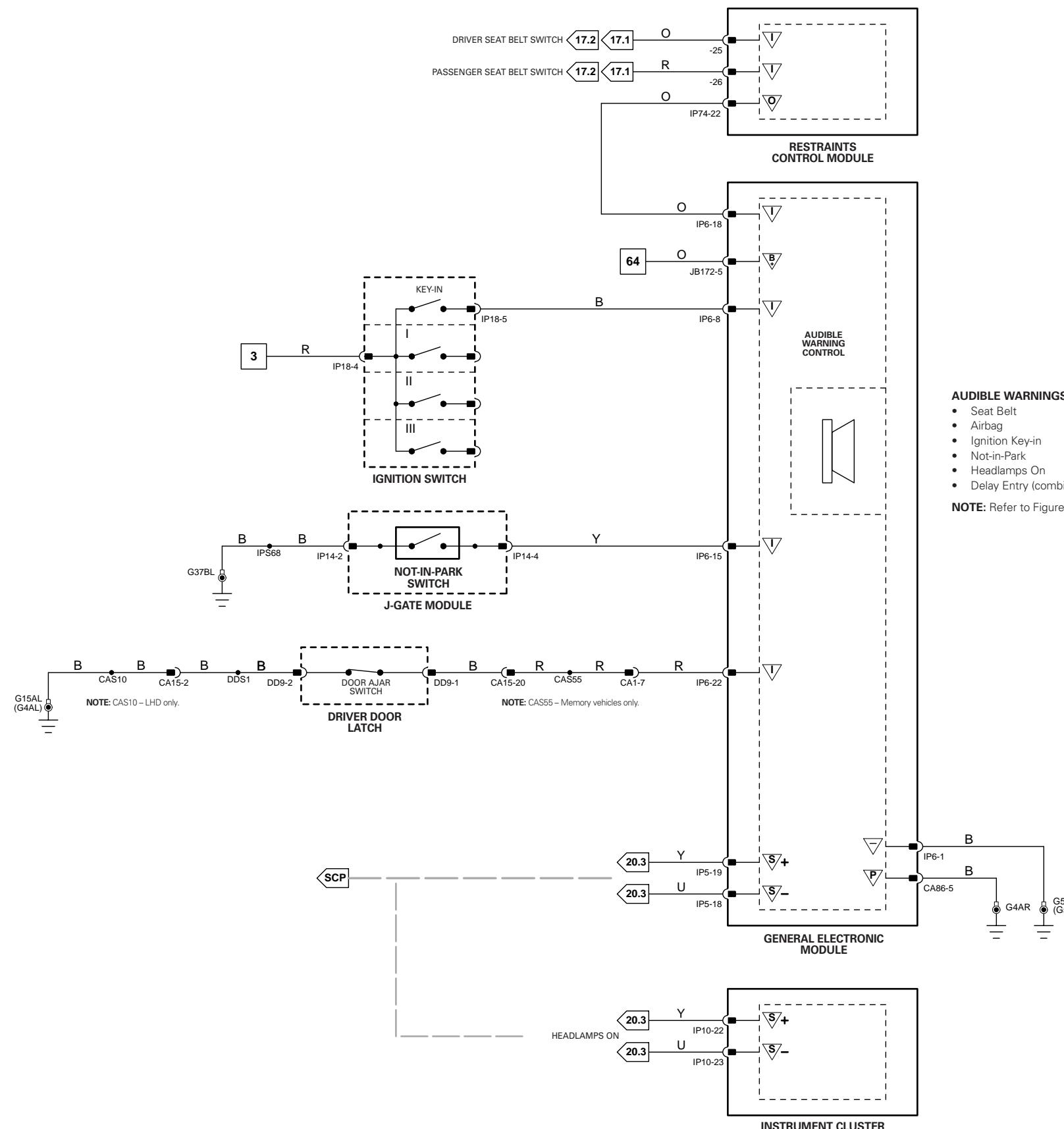






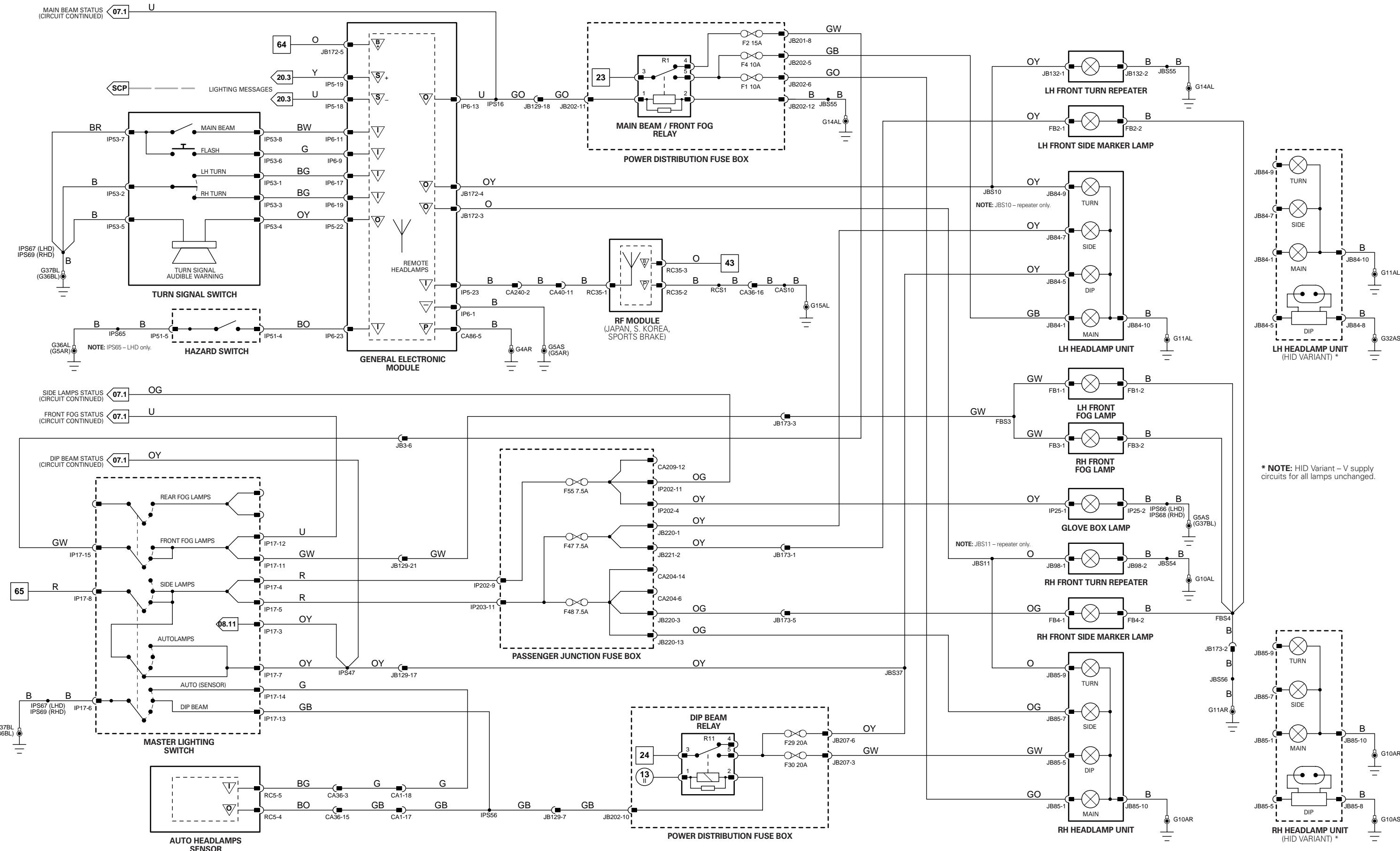


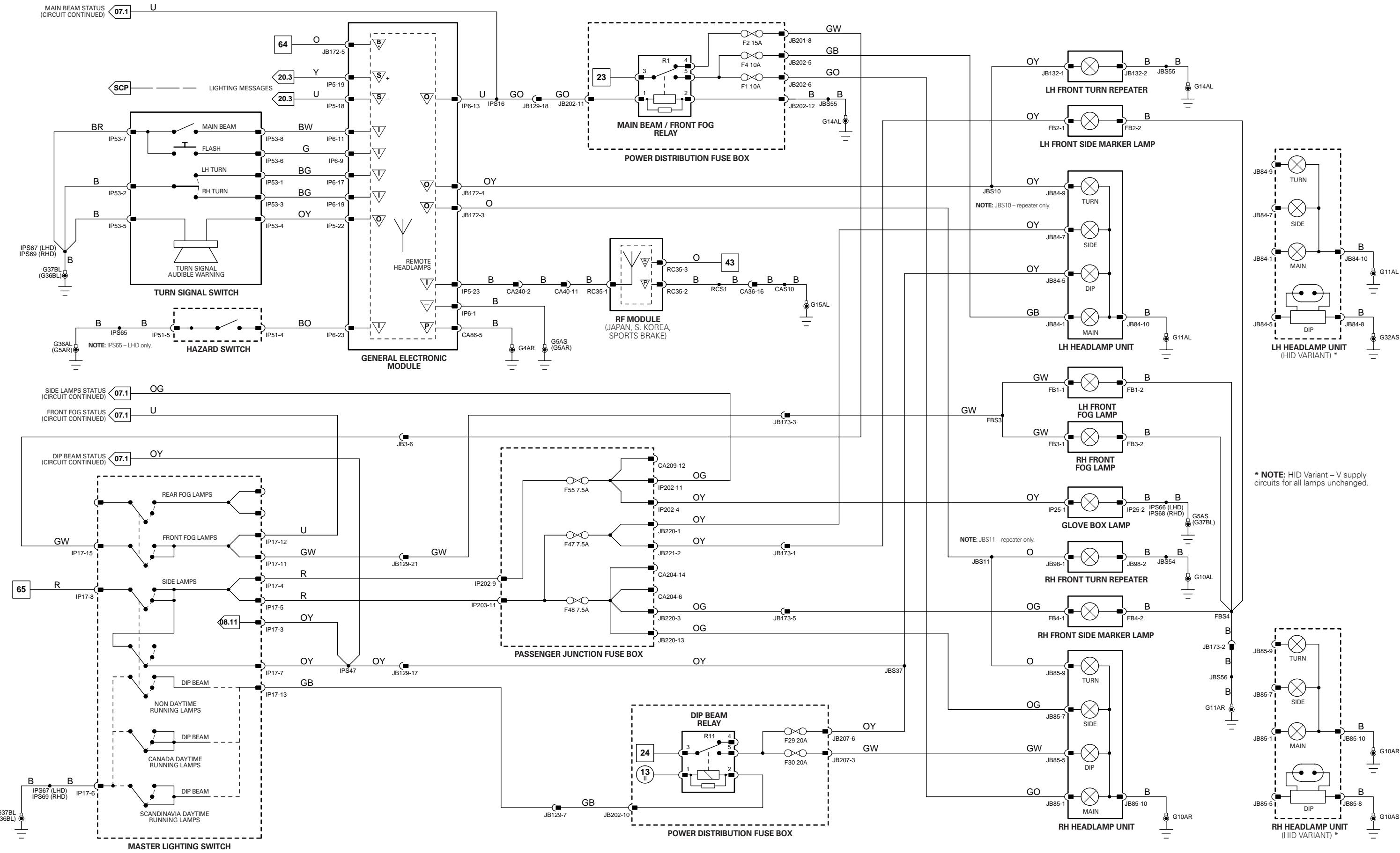


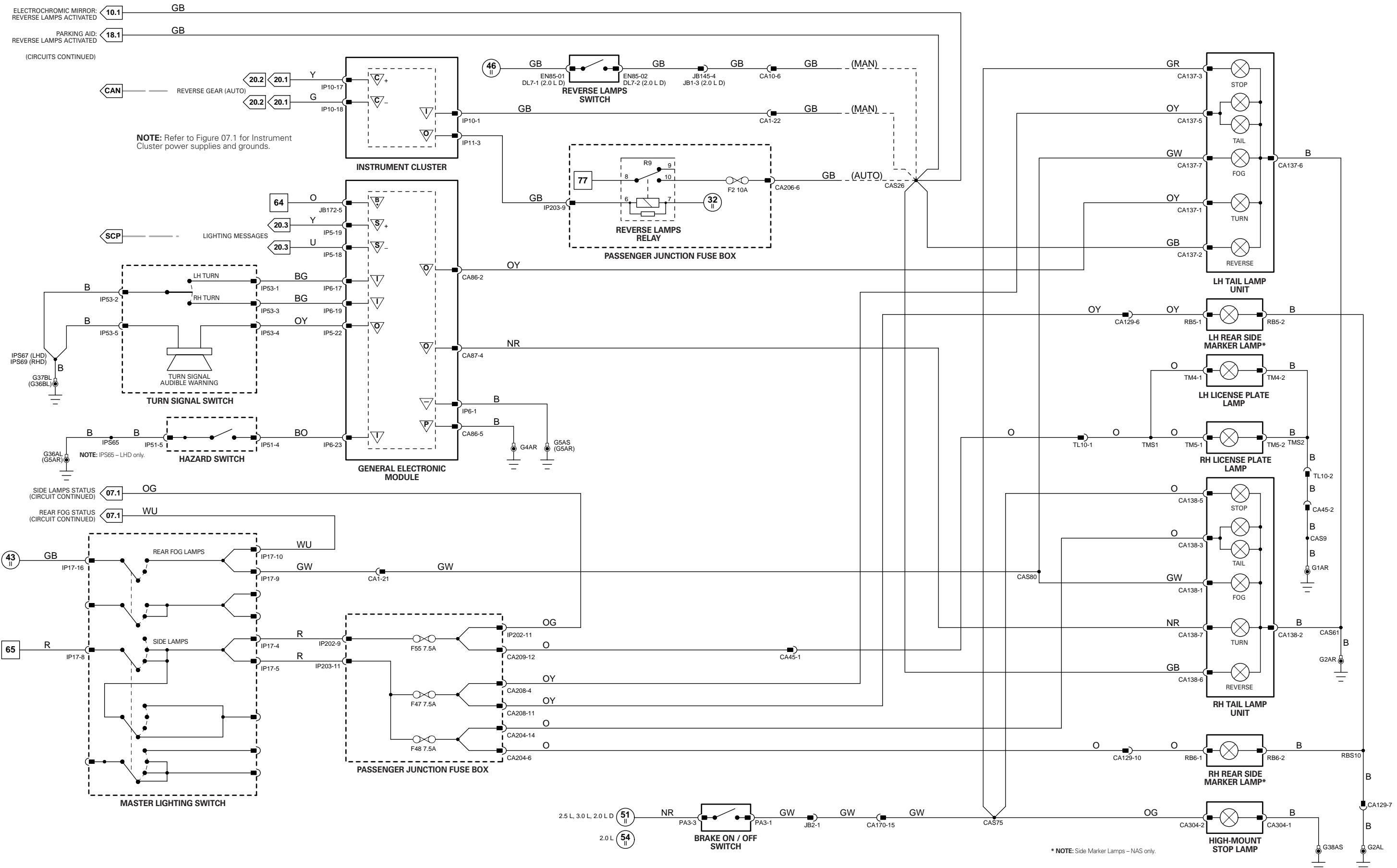
**AUDIBLE WARNINGS:**

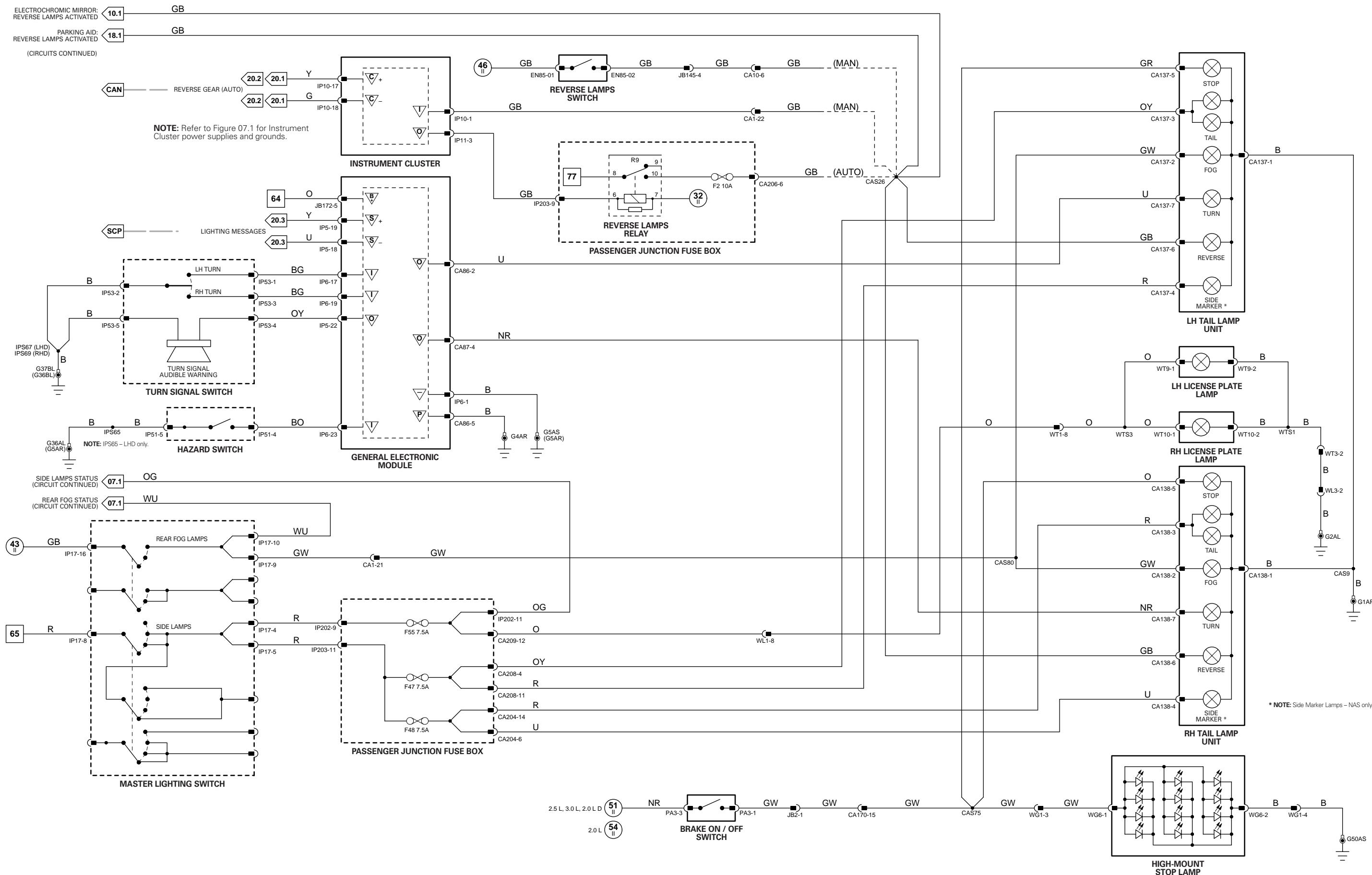
- Seat Belt
- Airbag
- Ignition Key-in
- Not-in-Park
- Headlamps On
- Delay Entry (combined Alarm State and Driver Door Ajar status)

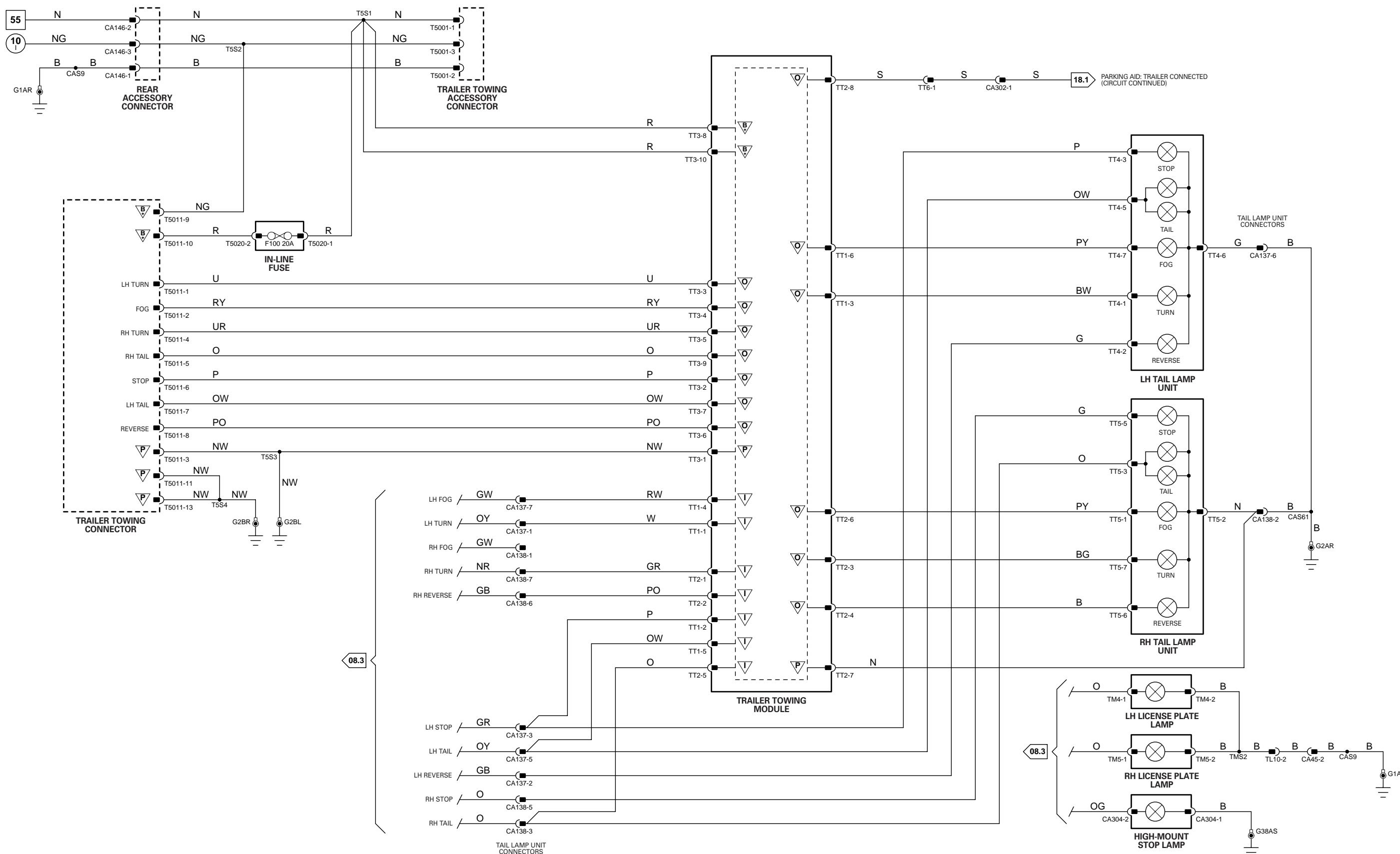
NOTE: Refer to Figures 08.1 – 08.4 for Turn Signal Audible Warning.

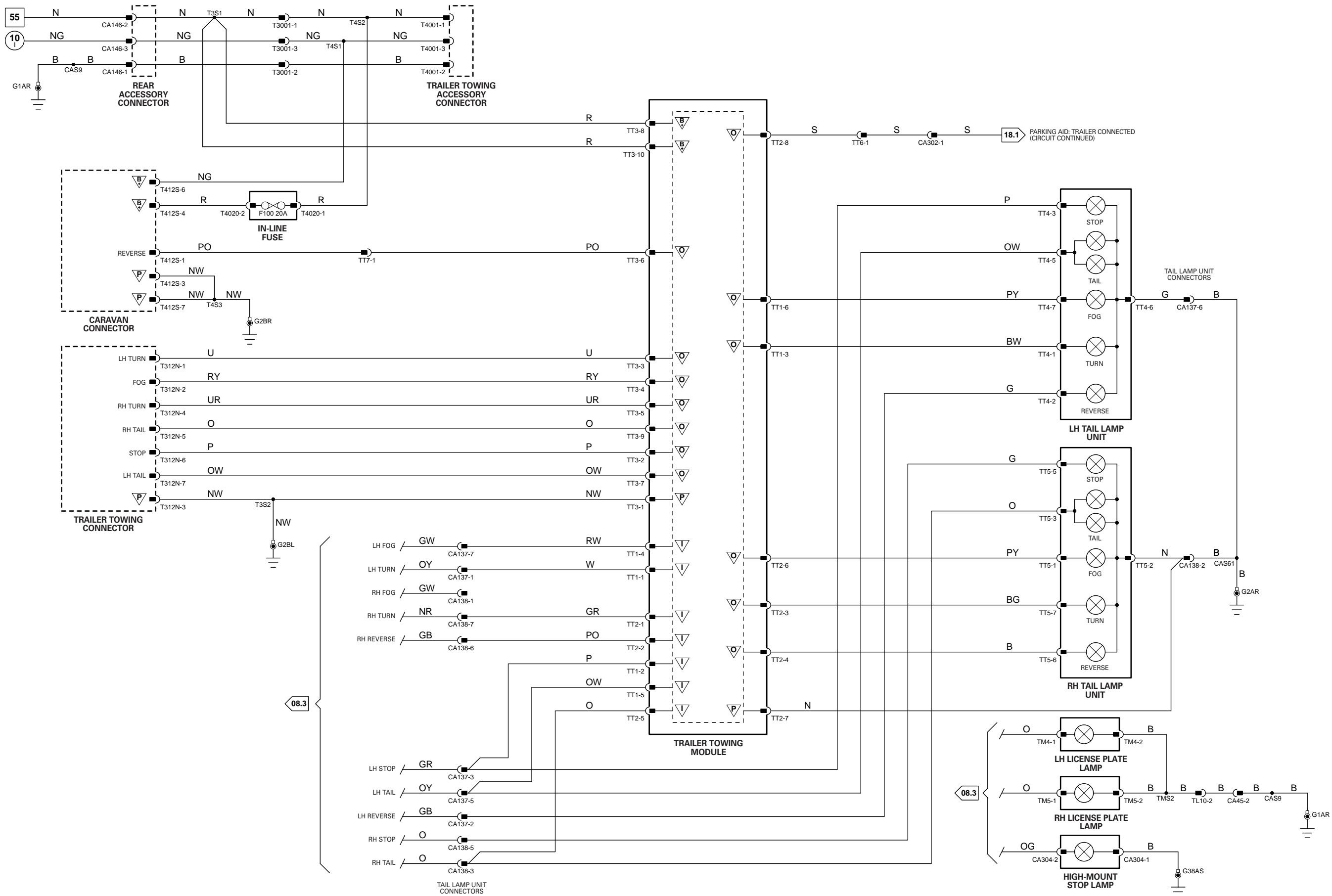


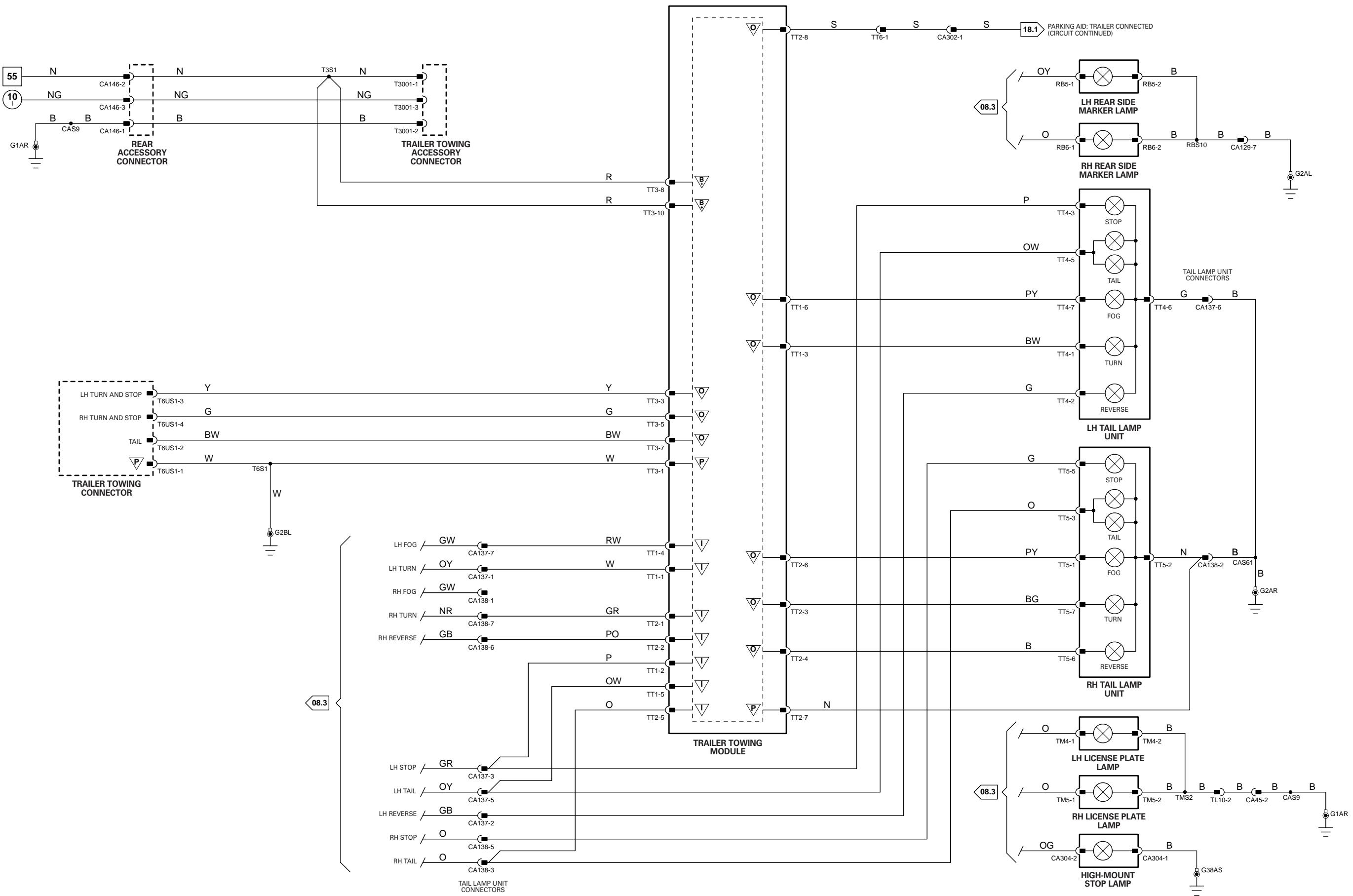


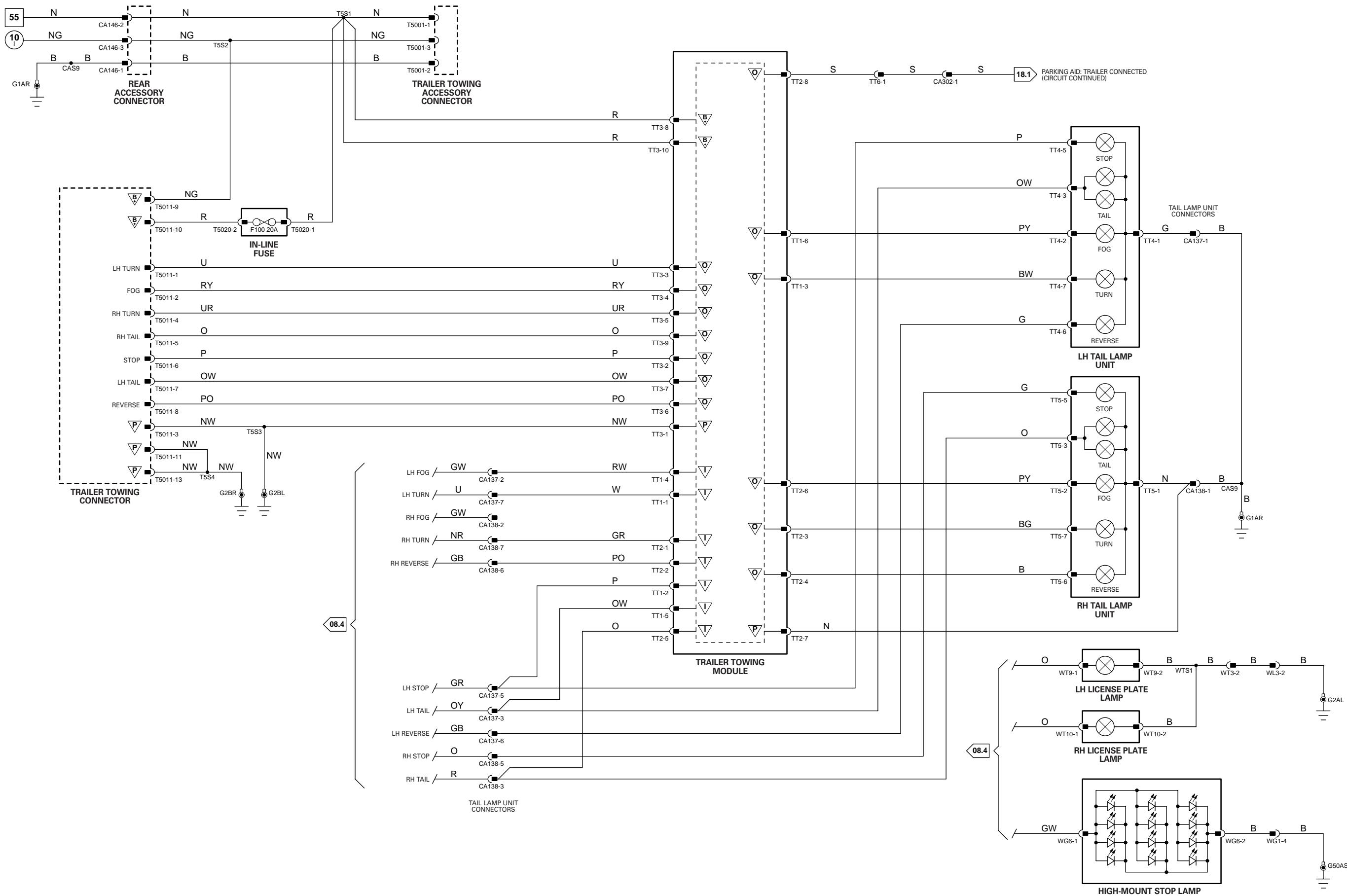


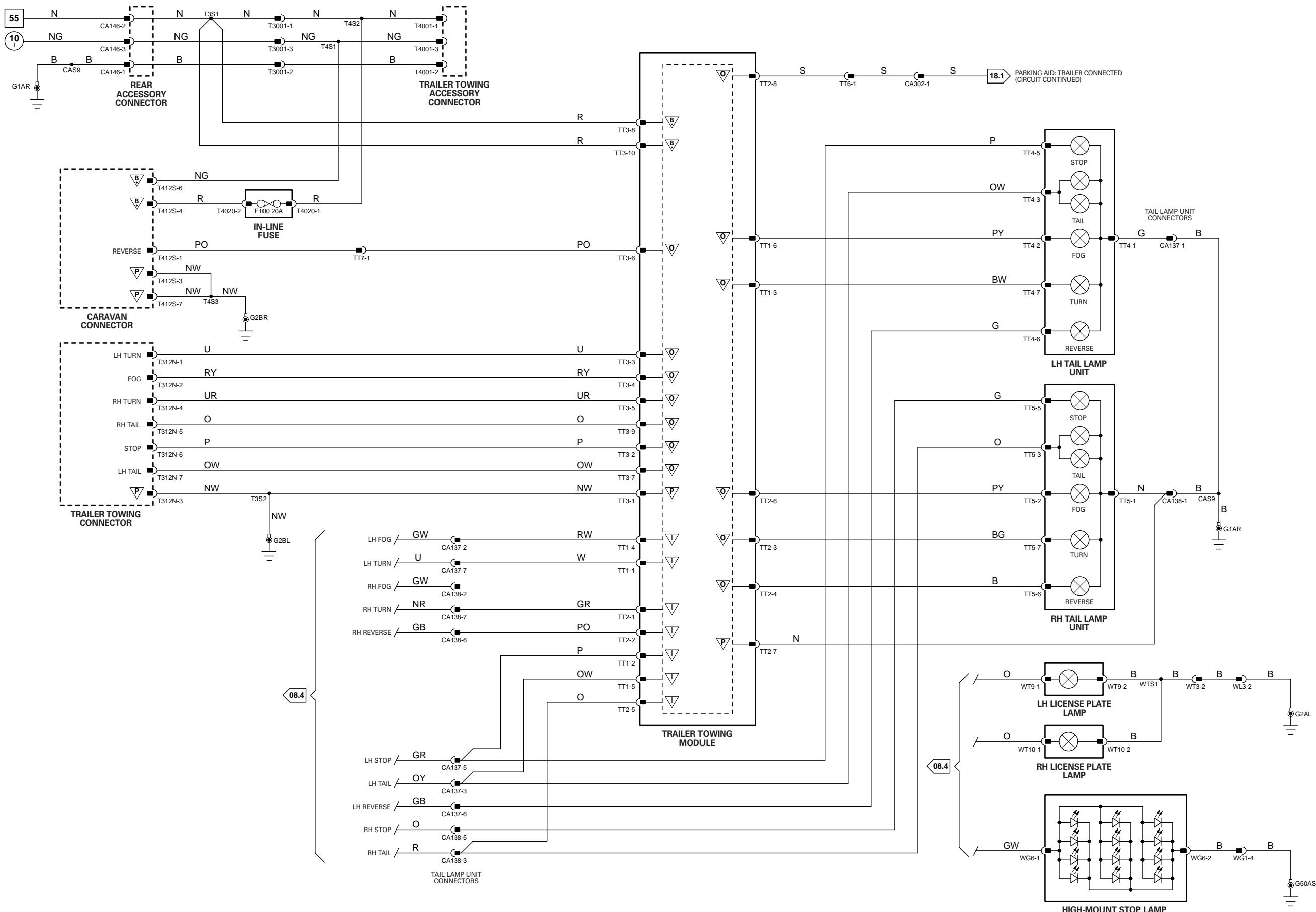


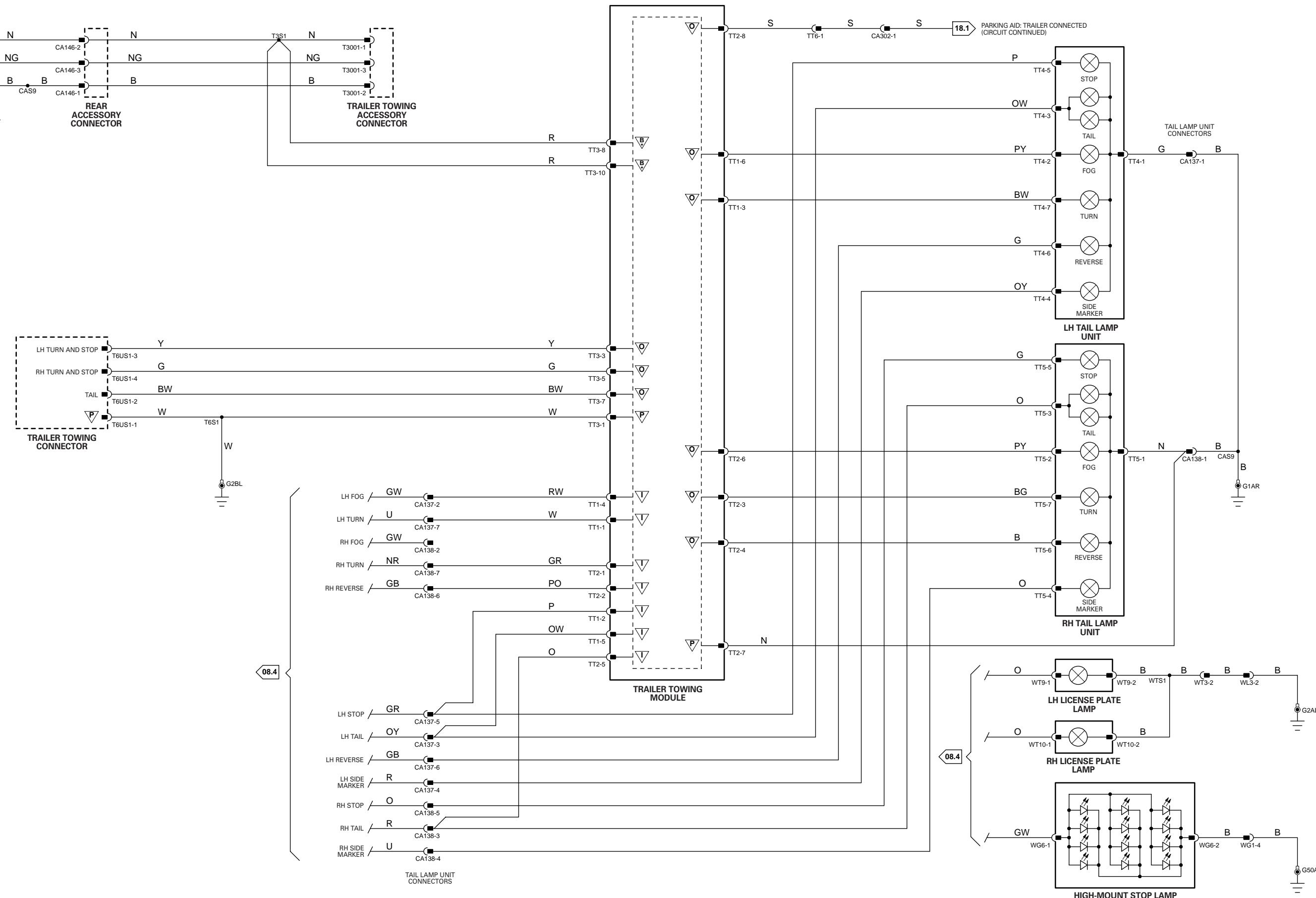


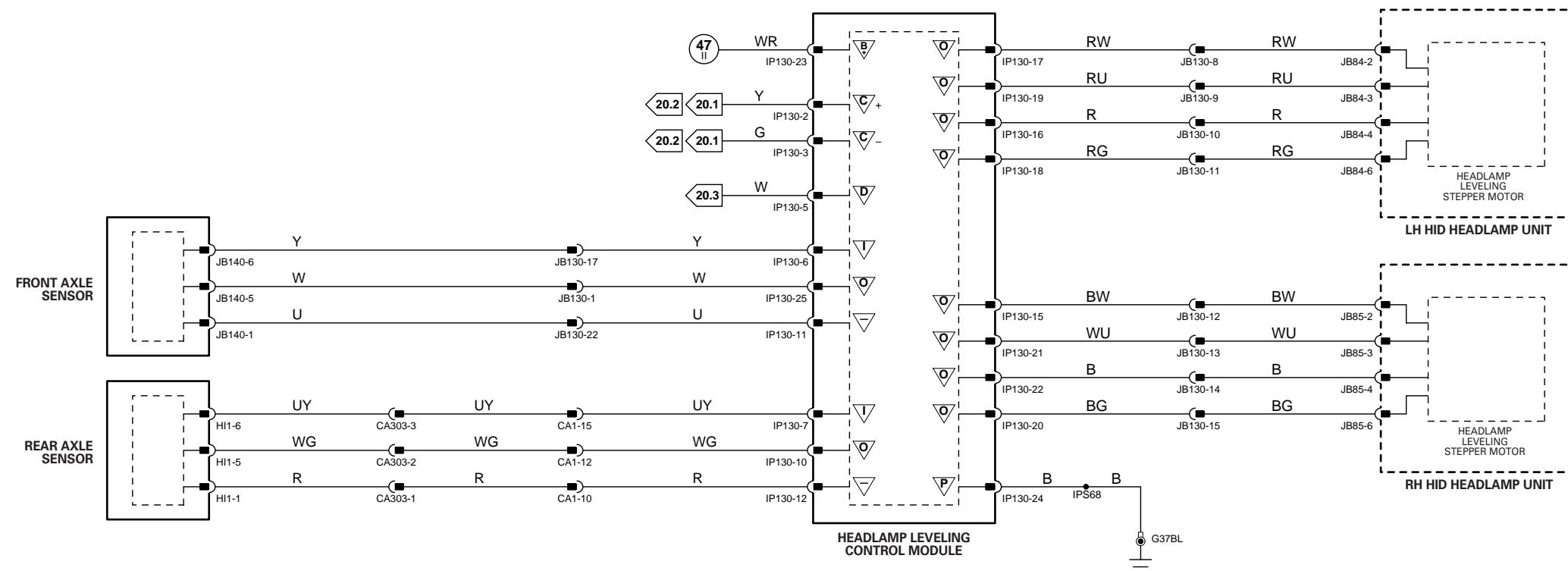
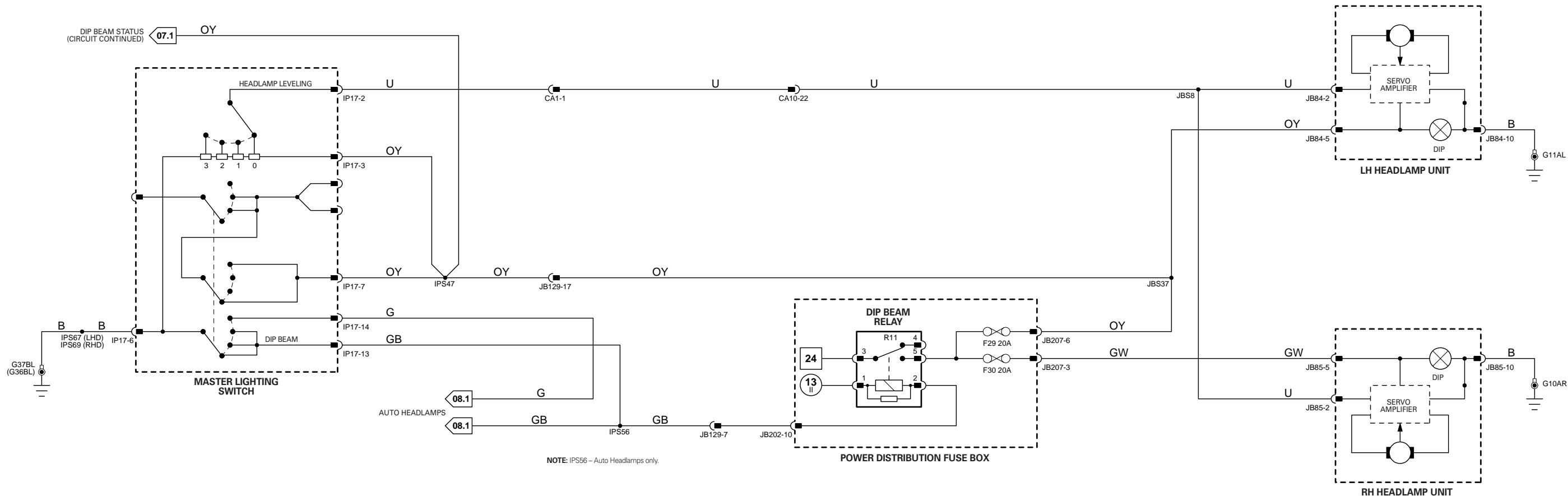




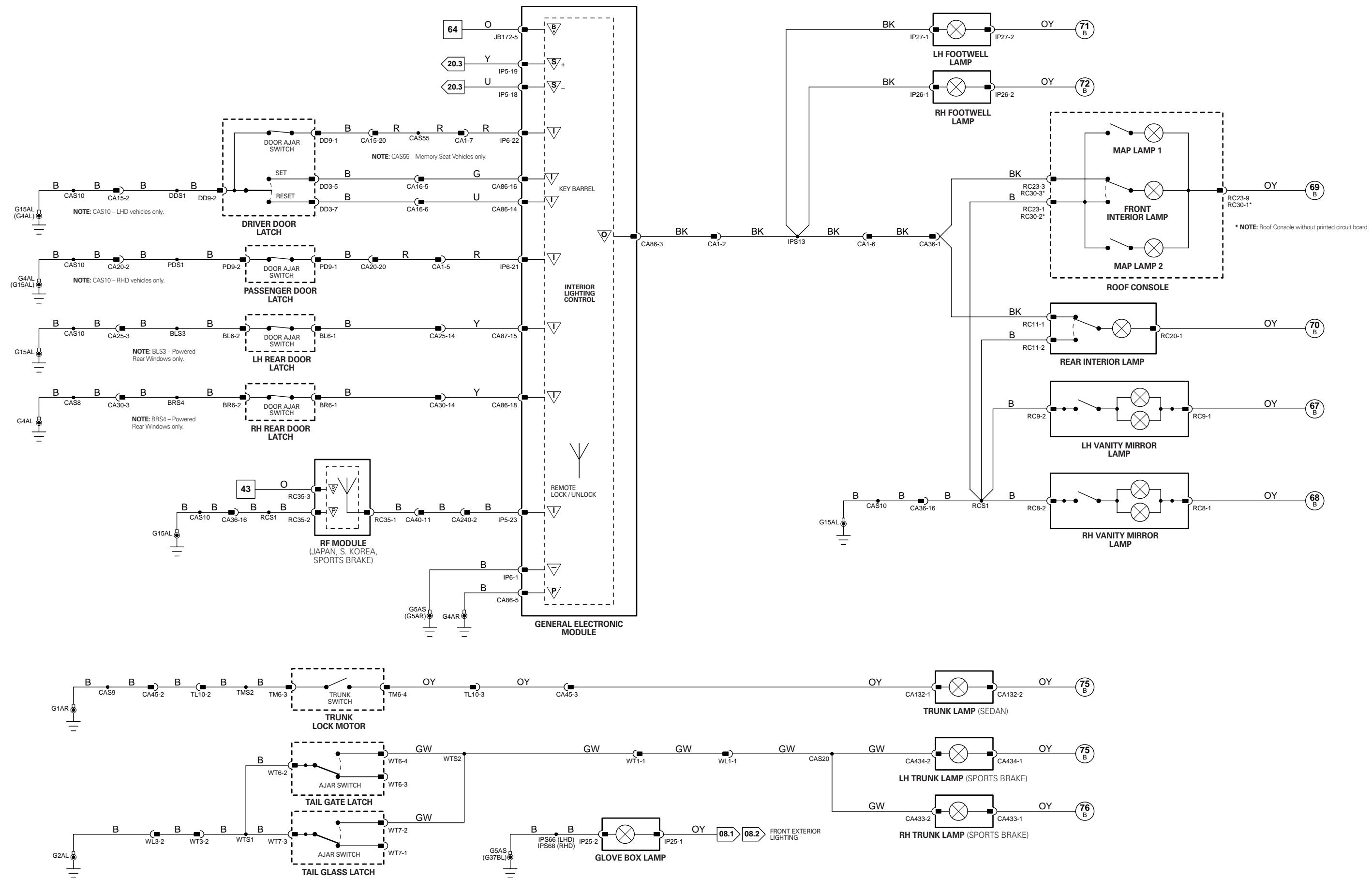


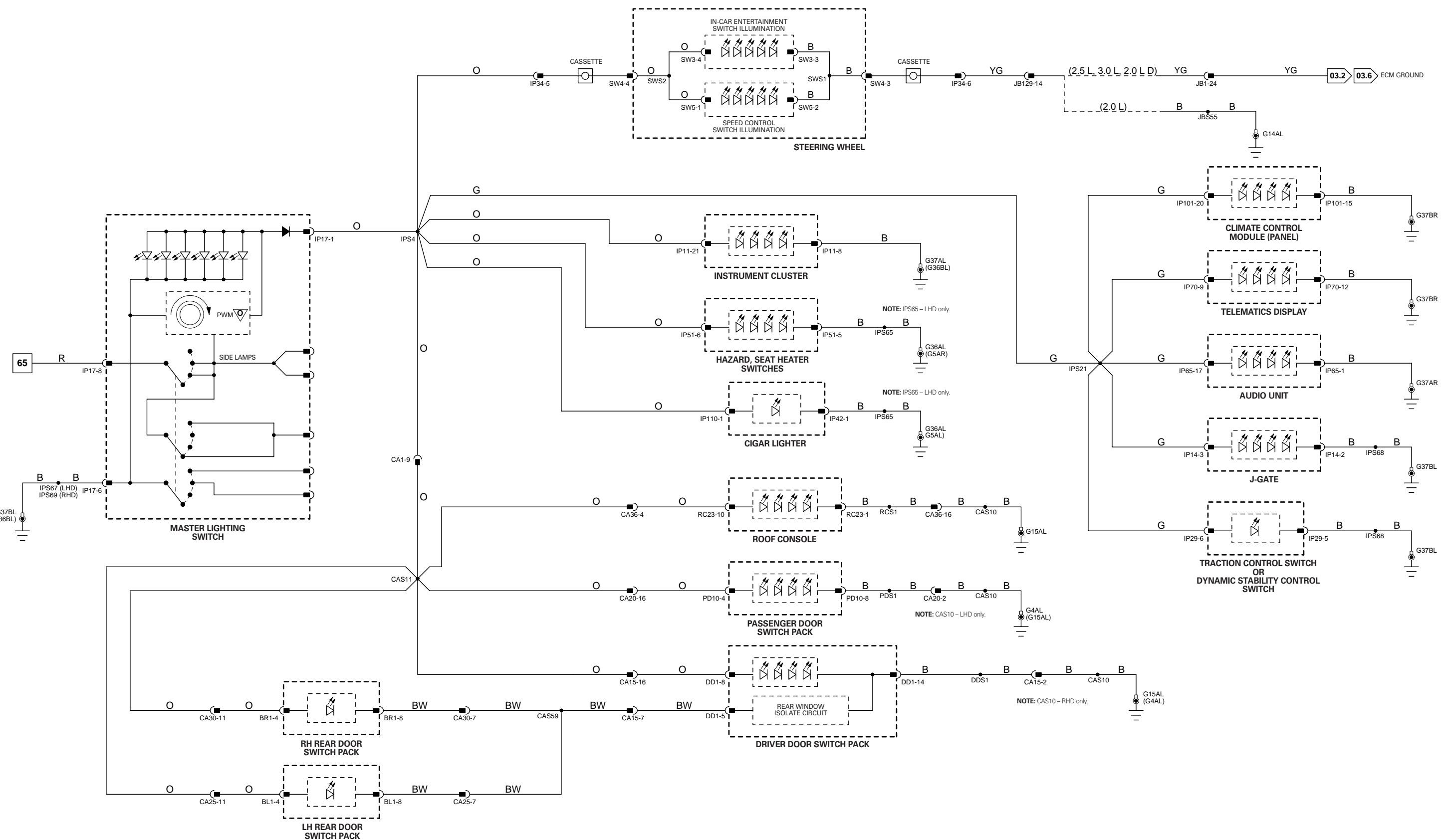


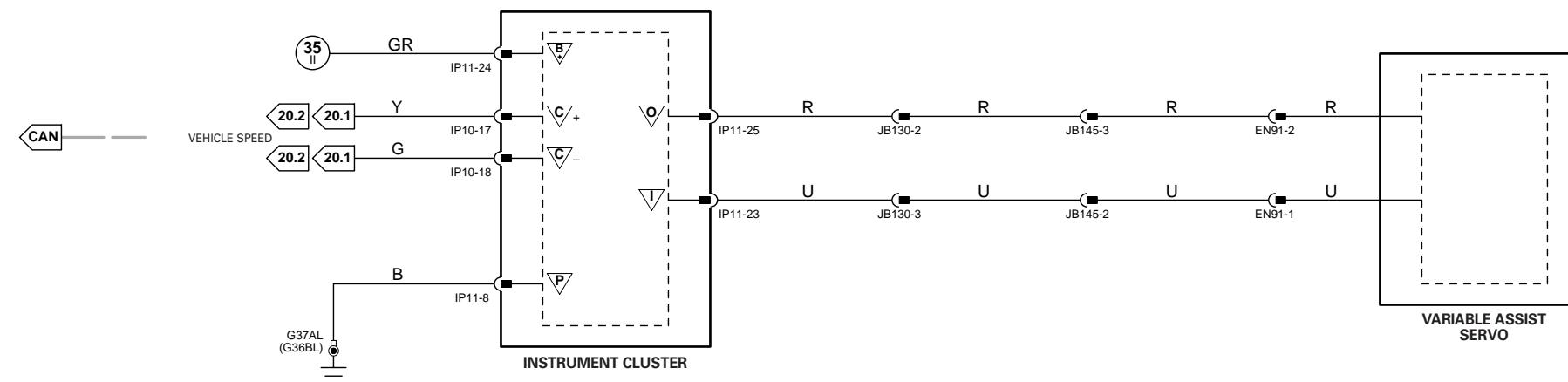




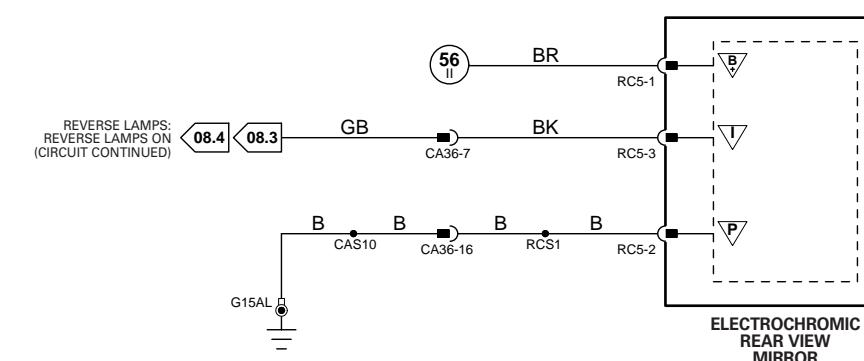
AUTOMATIC HEADLAMP LEVELING



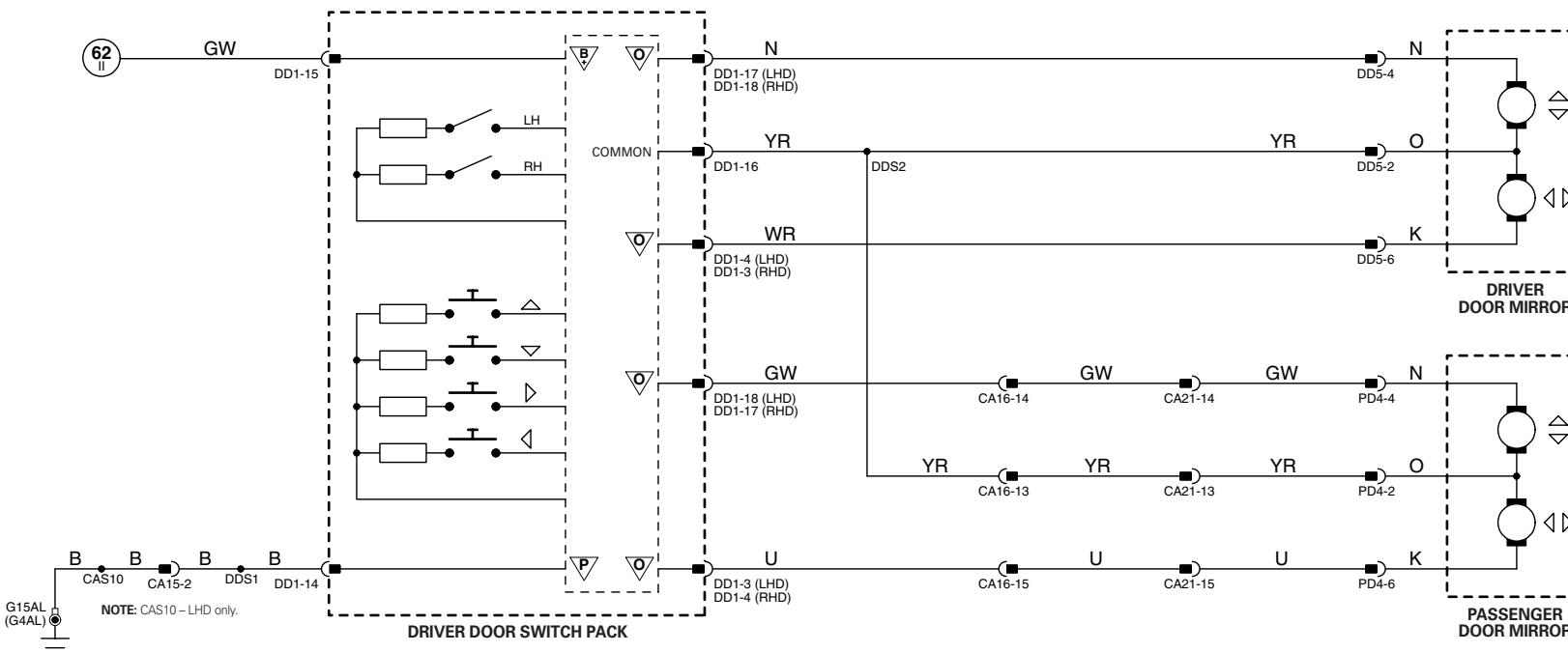




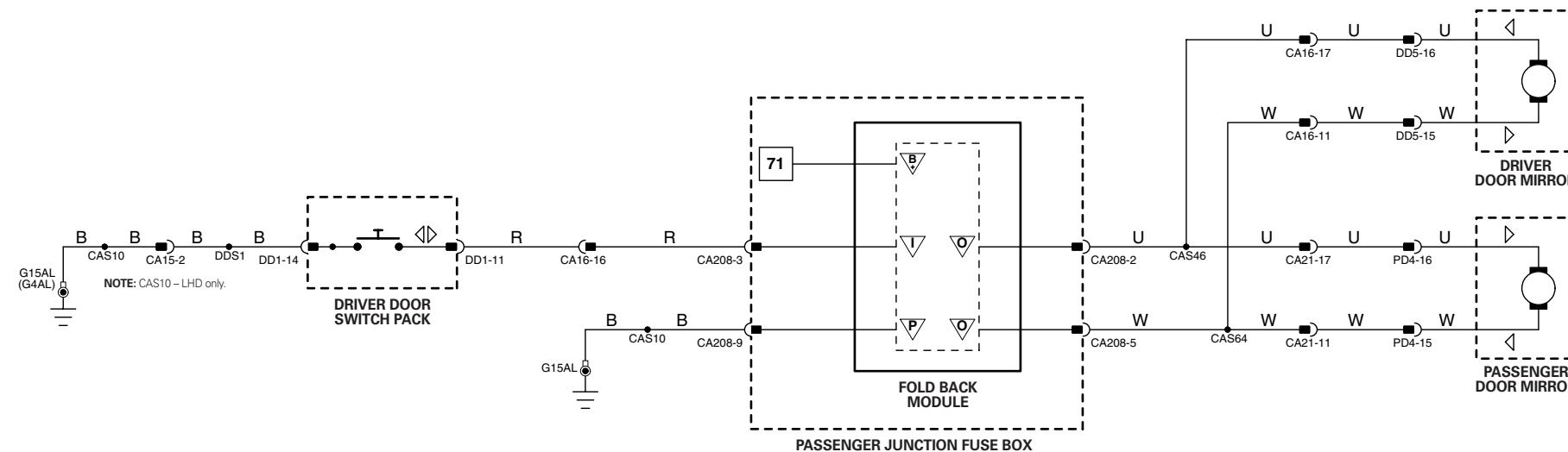
VARIABLE ASSIST STEERING



ELECTROCHROMIC REAR VIEW MIRROR

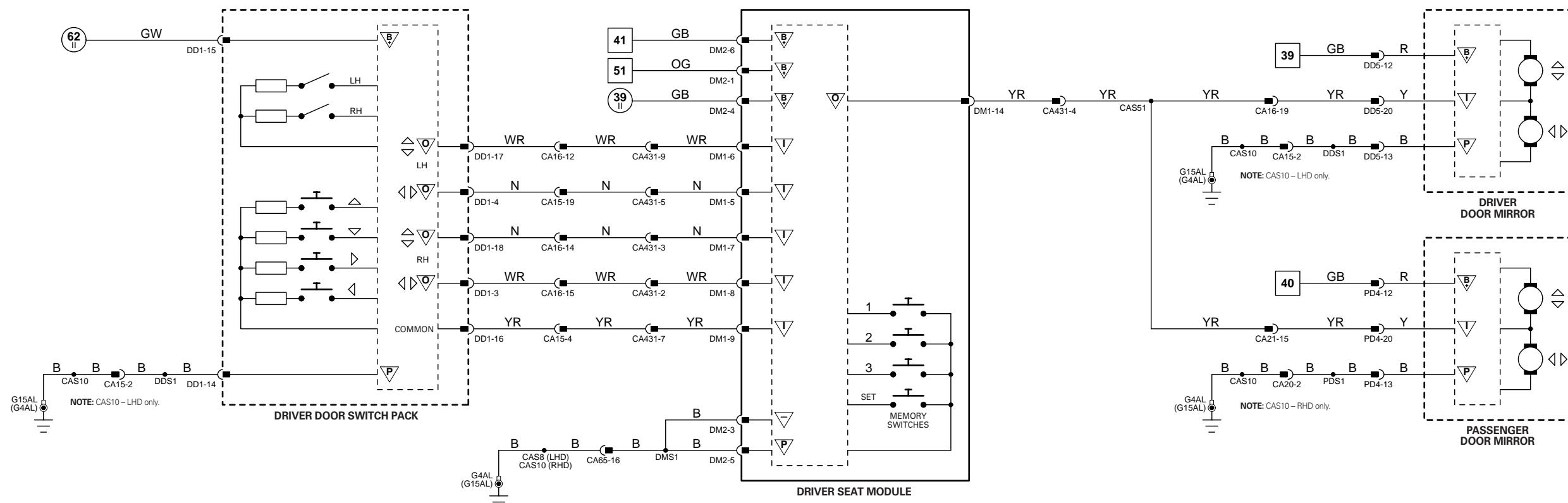


DOOR MIRROR MOVEMENT

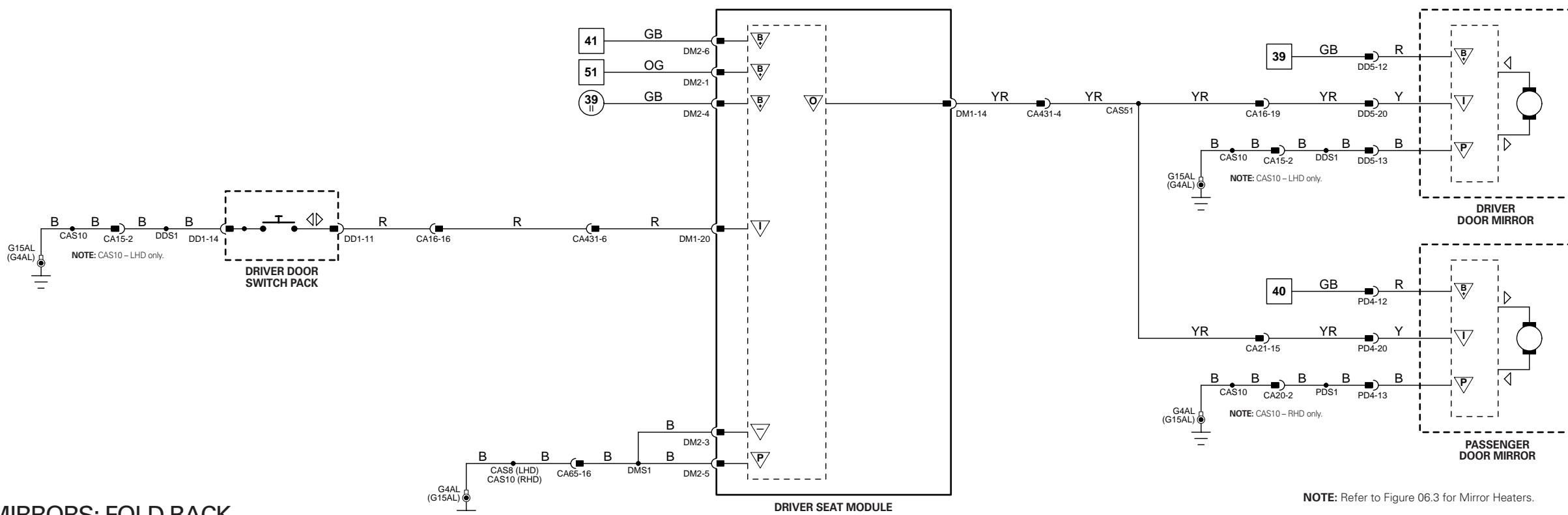


NOTE: Refer to Figure 06.3 for Mirror Heaters.

DOOR MIRRORS: FOLD-BACK

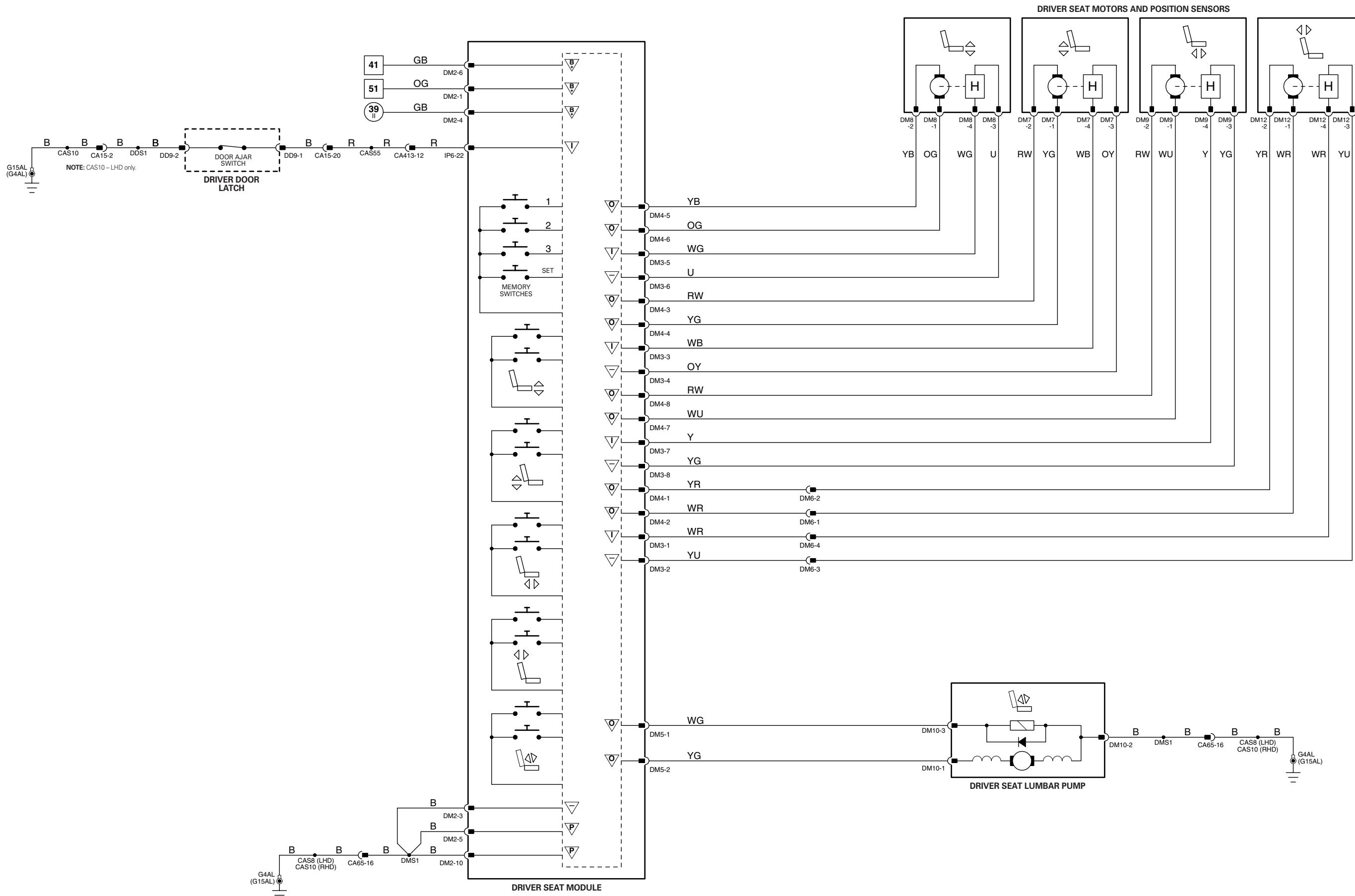


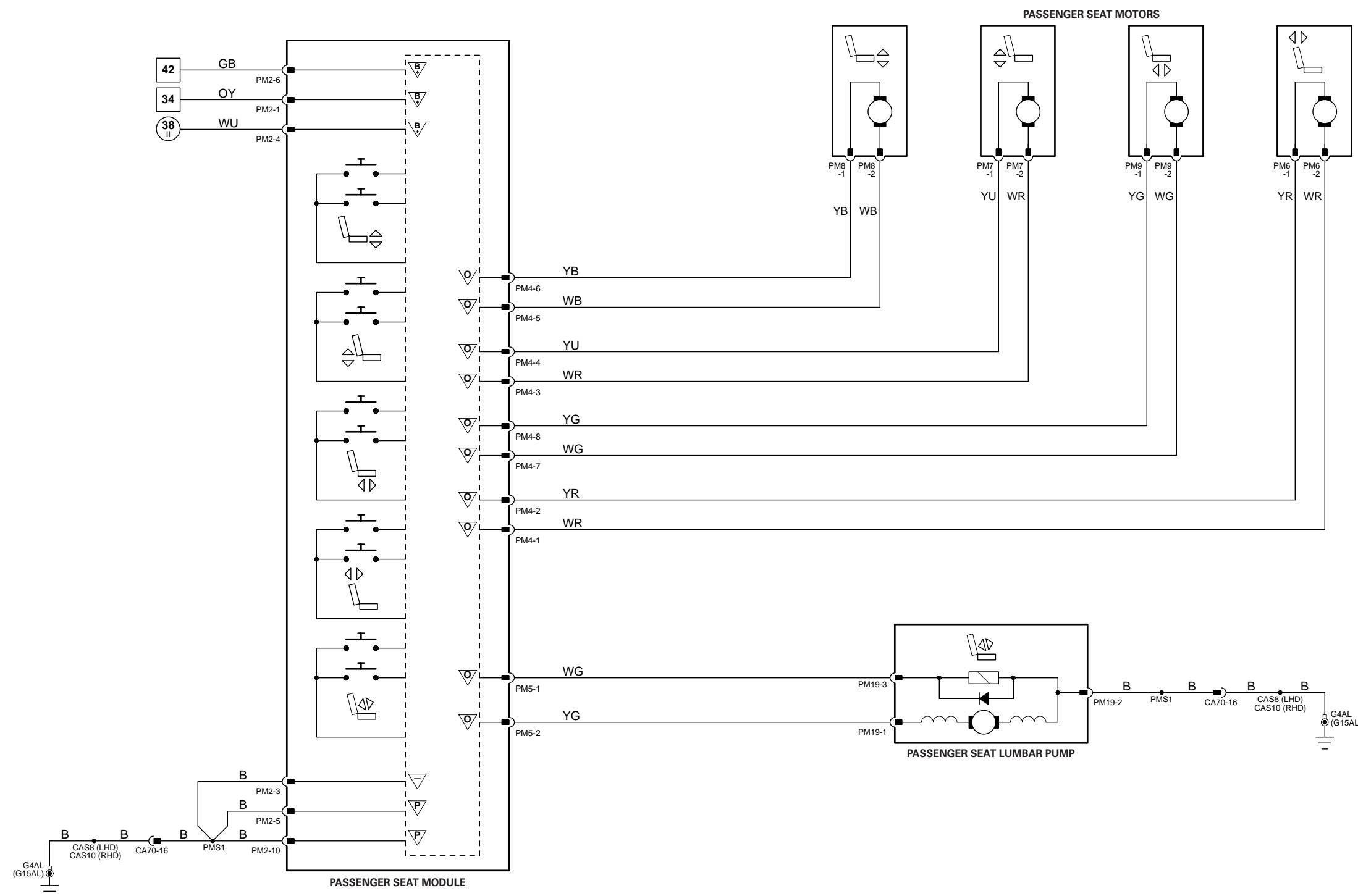
DOOR MIRROR MOVEMENT

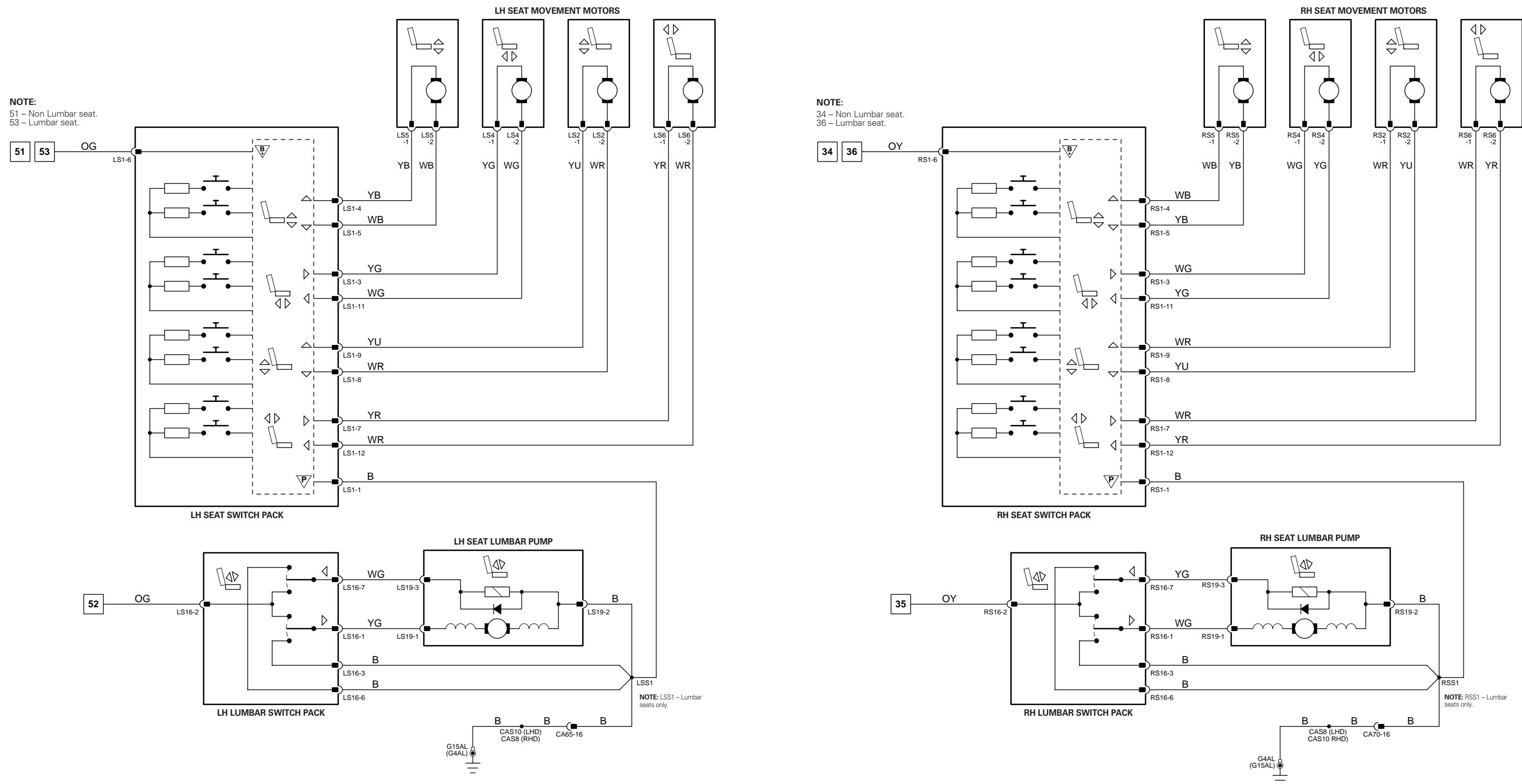


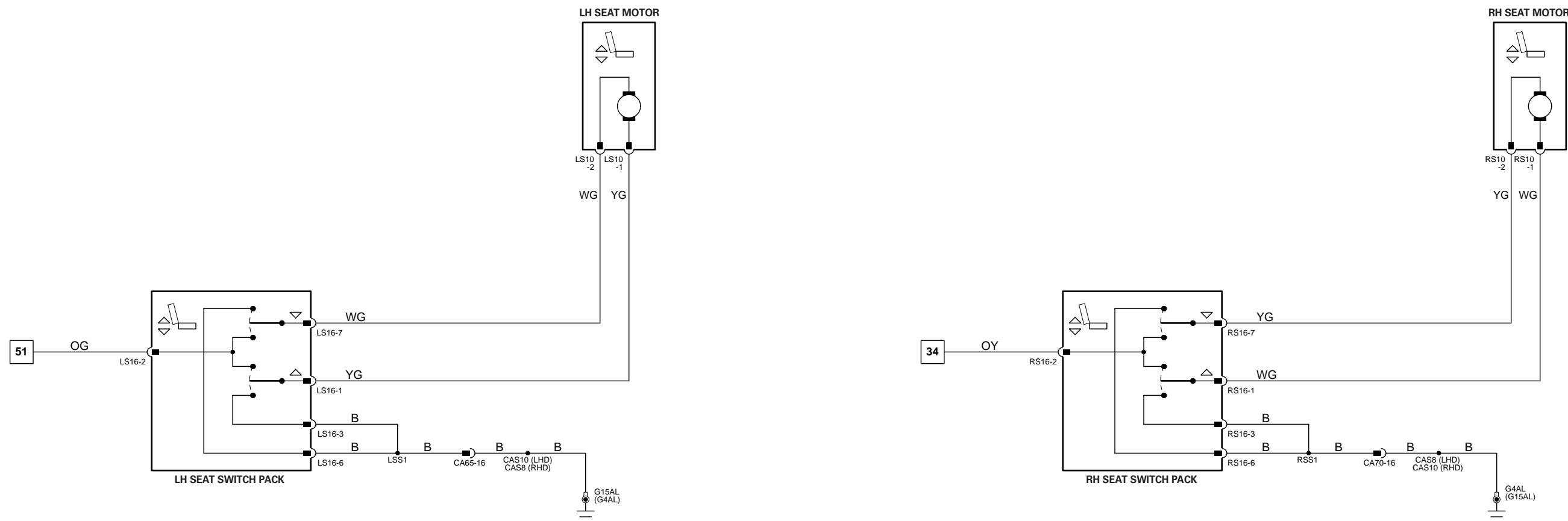
DOOR MIRRORS: FOLD BACK

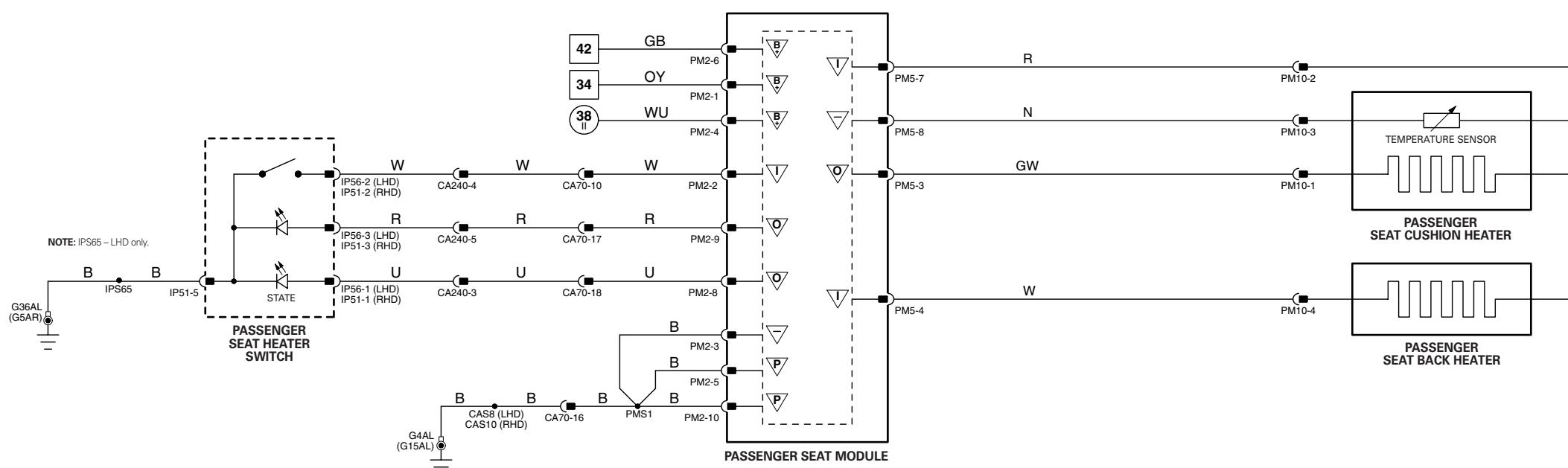
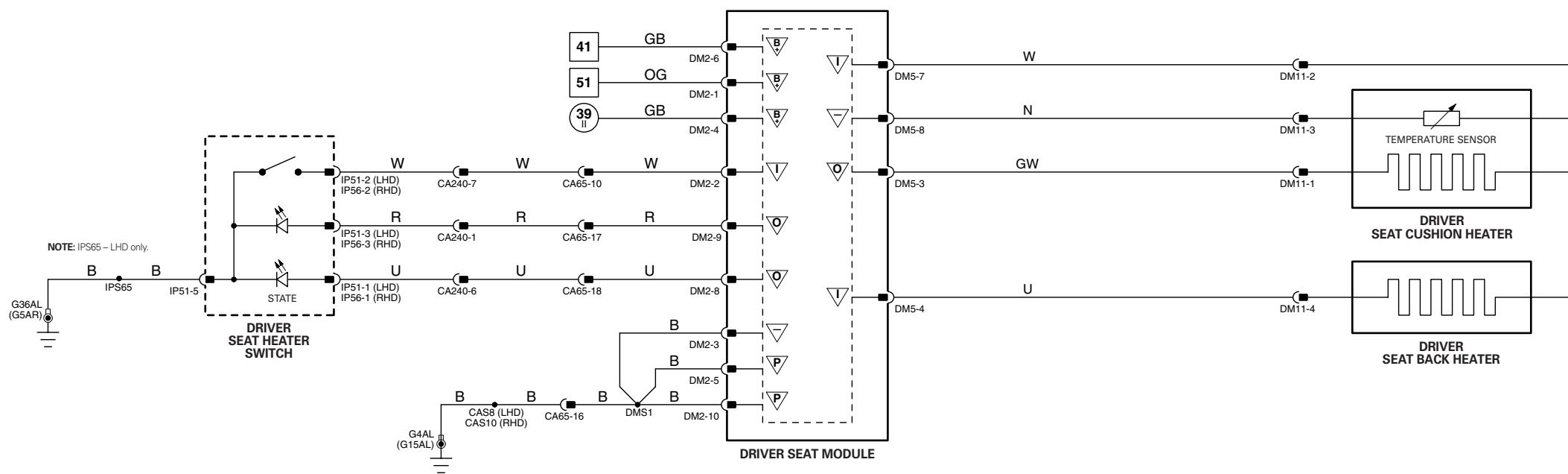
NOTE: Refer to Figure 06.3 for Mirror Heaters.

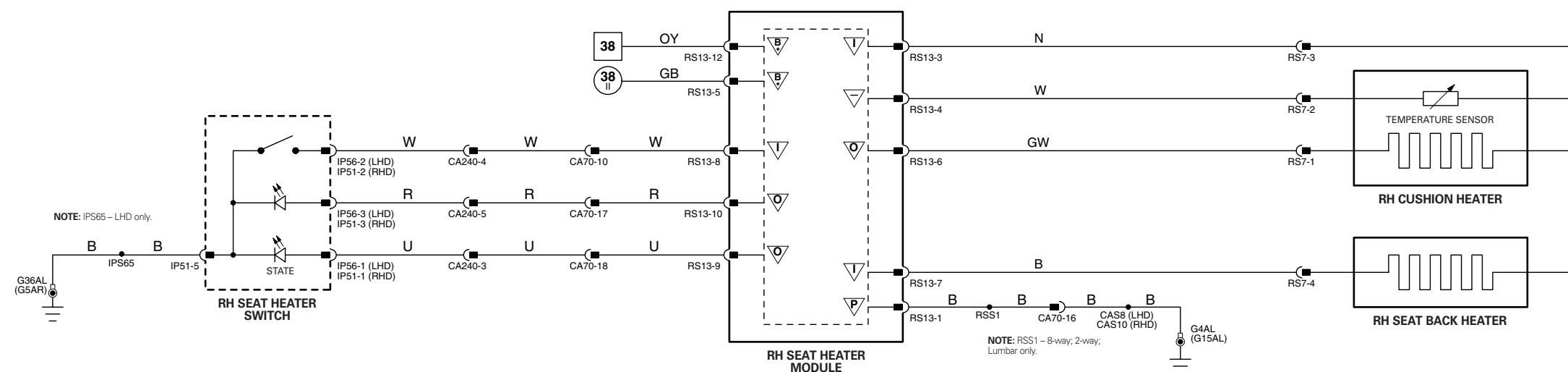
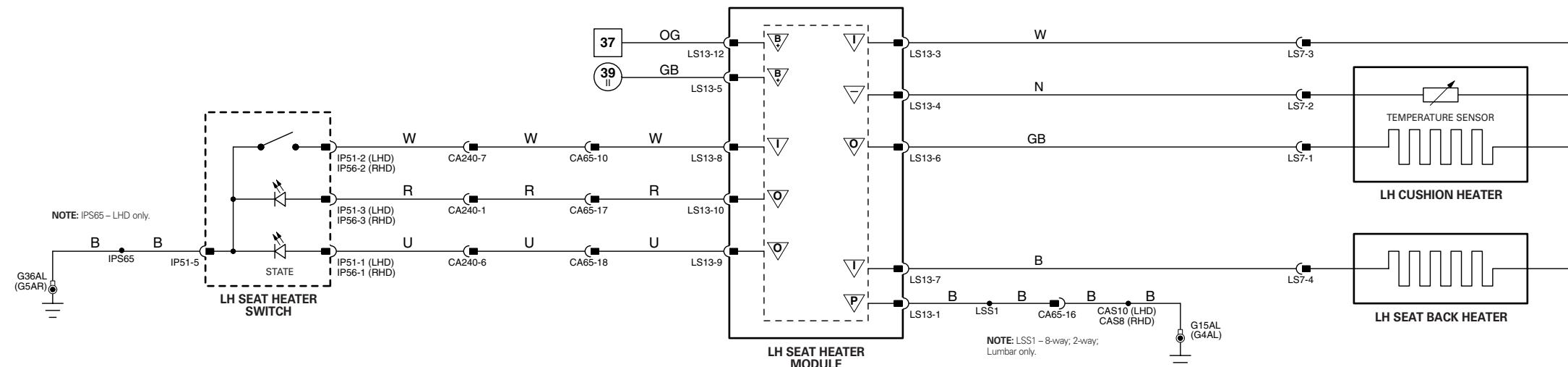


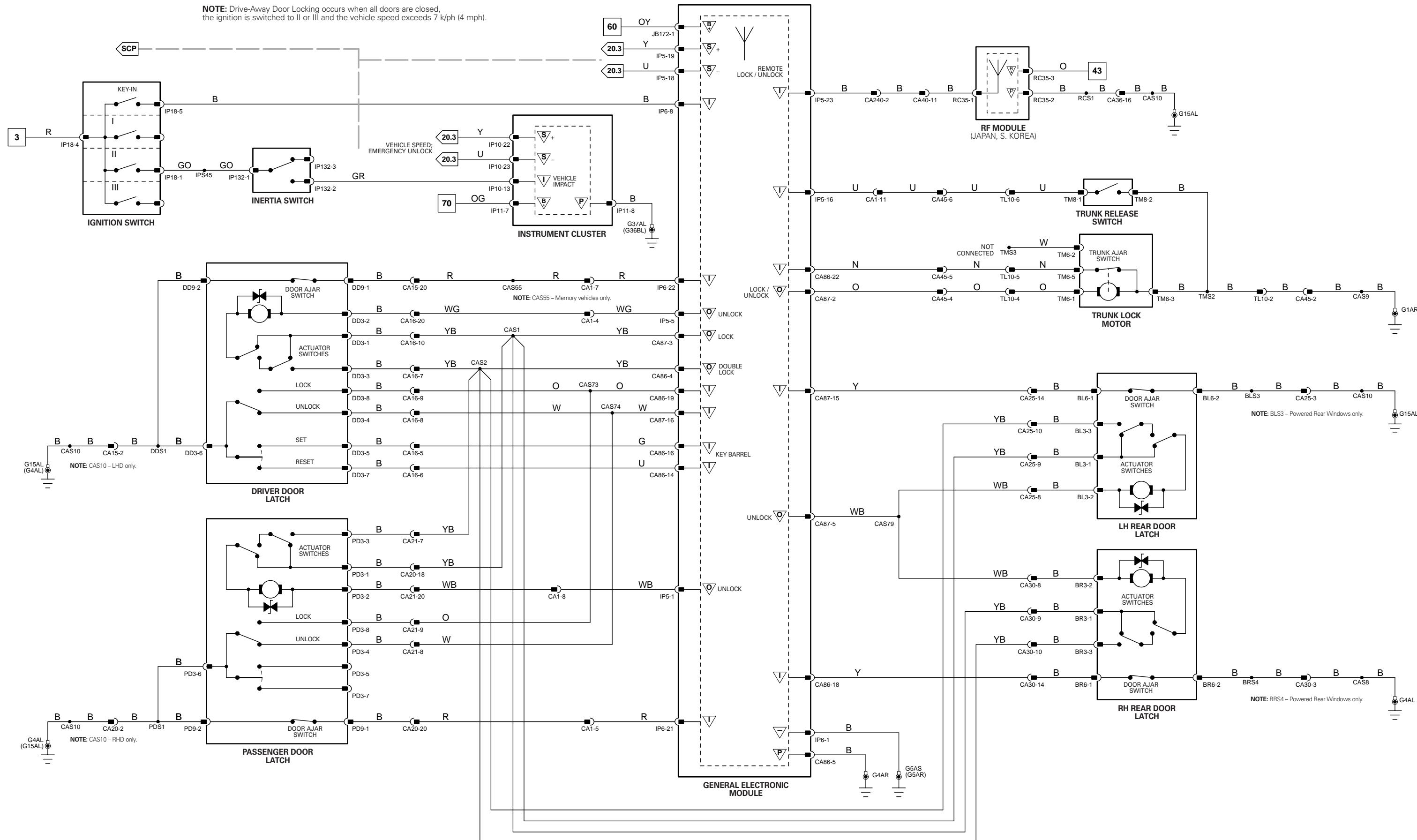


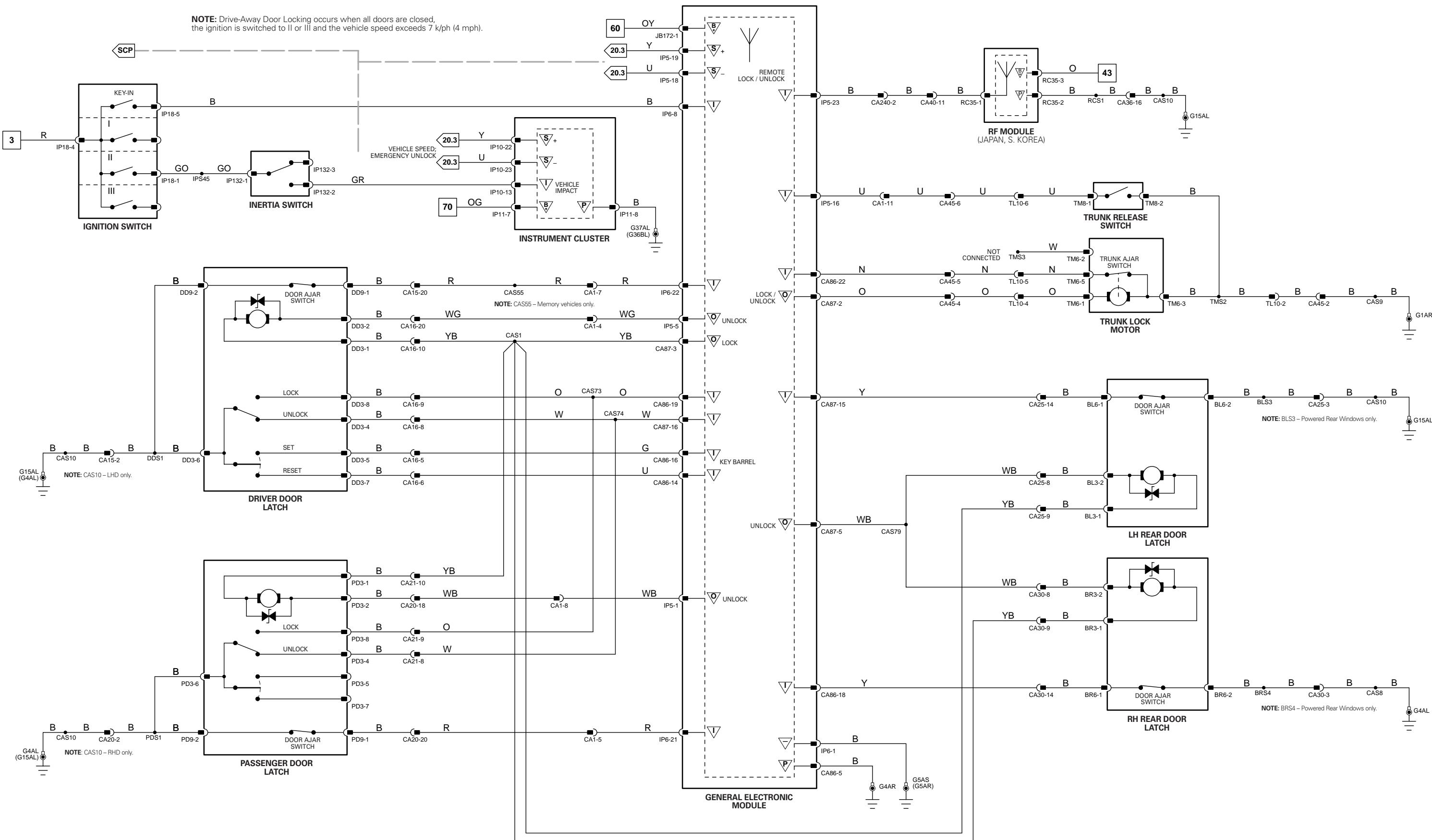


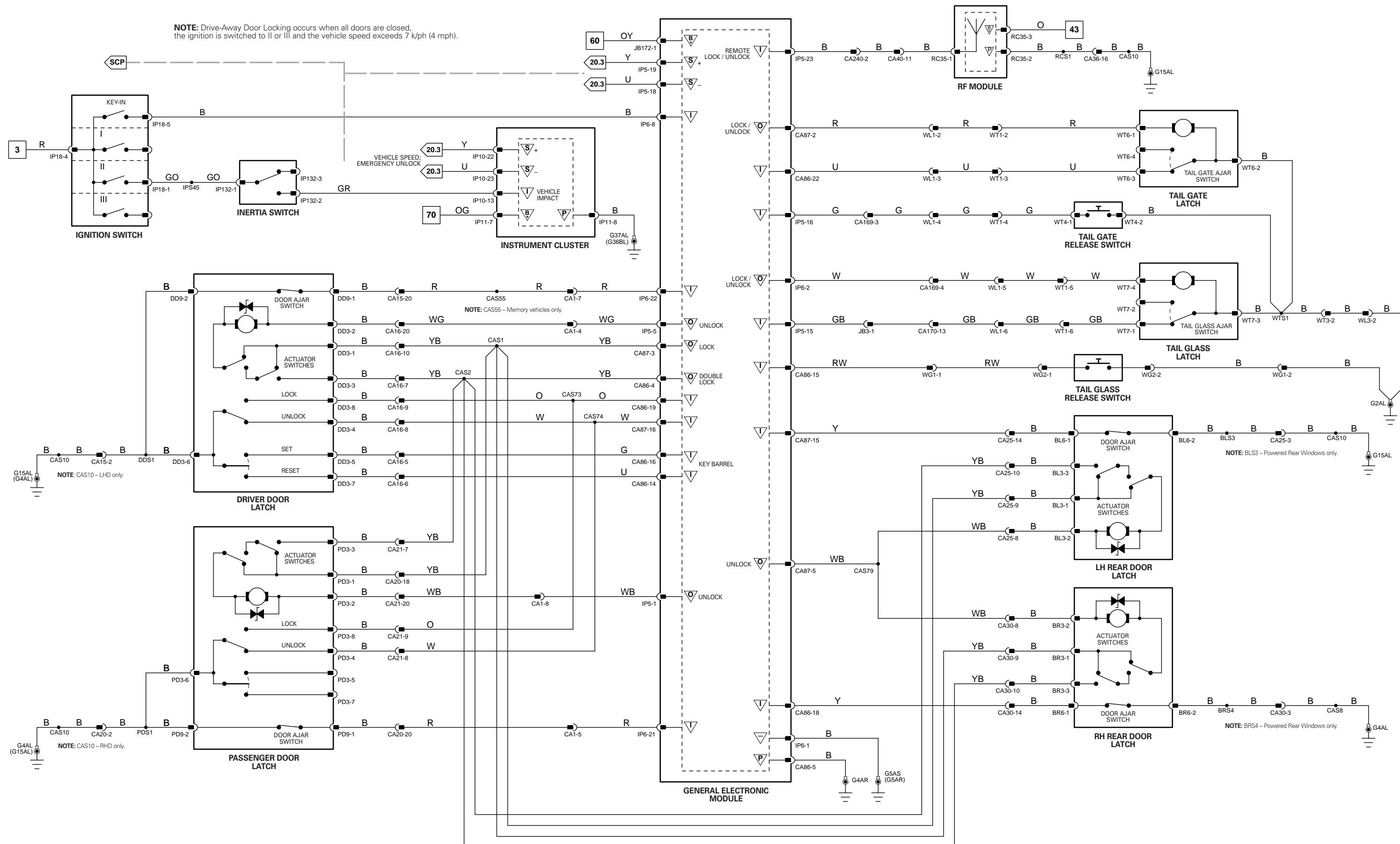


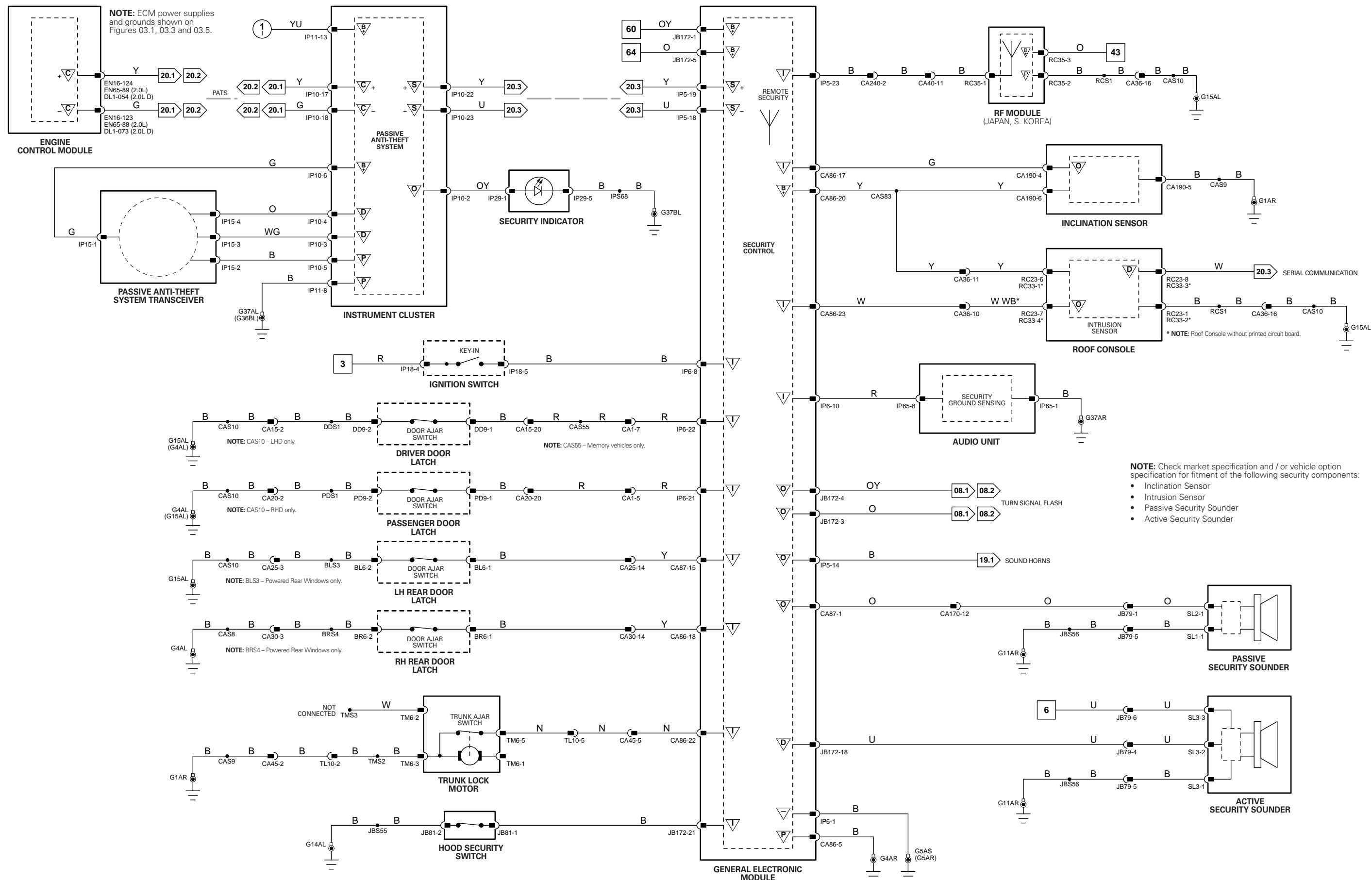


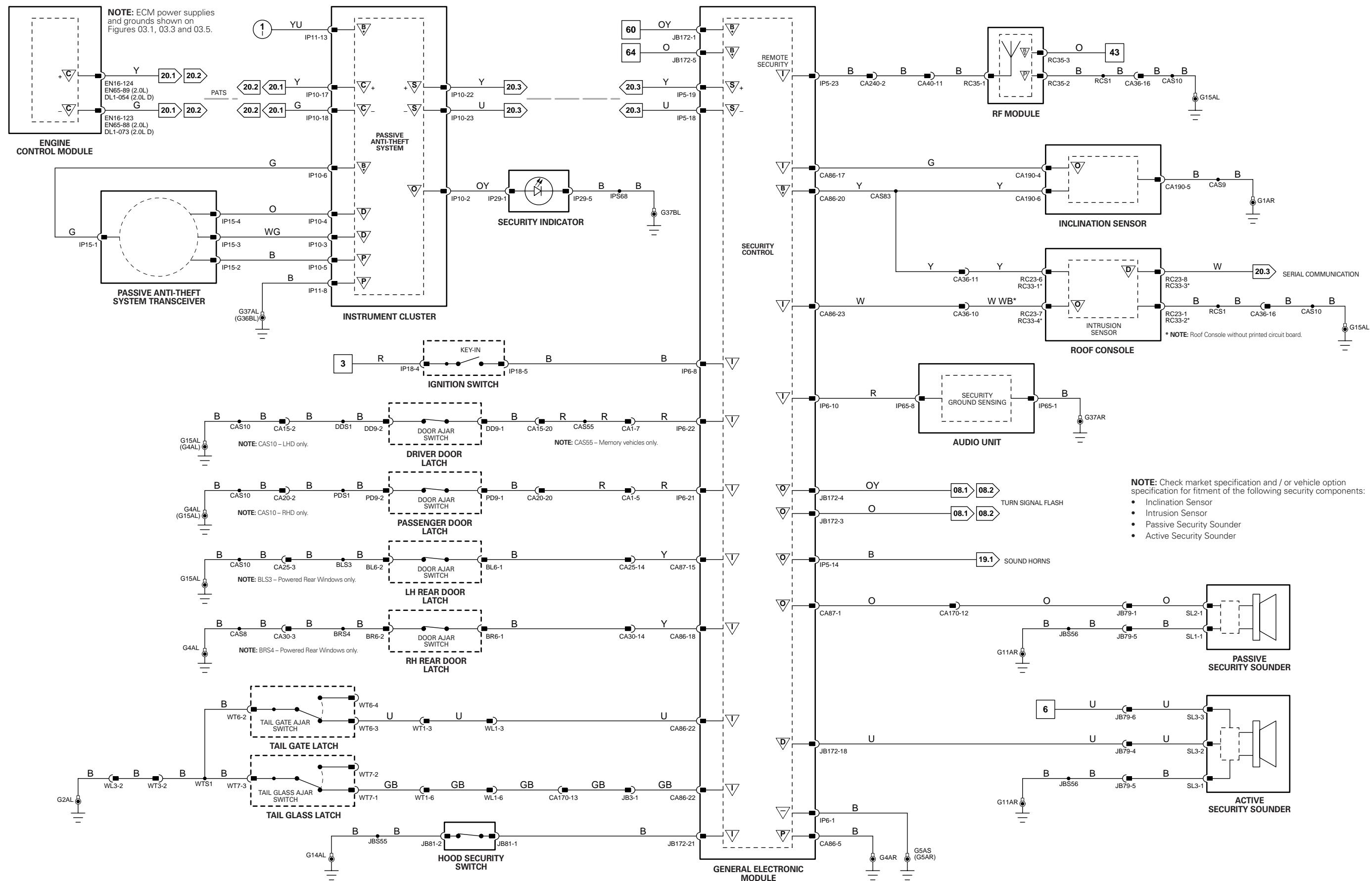


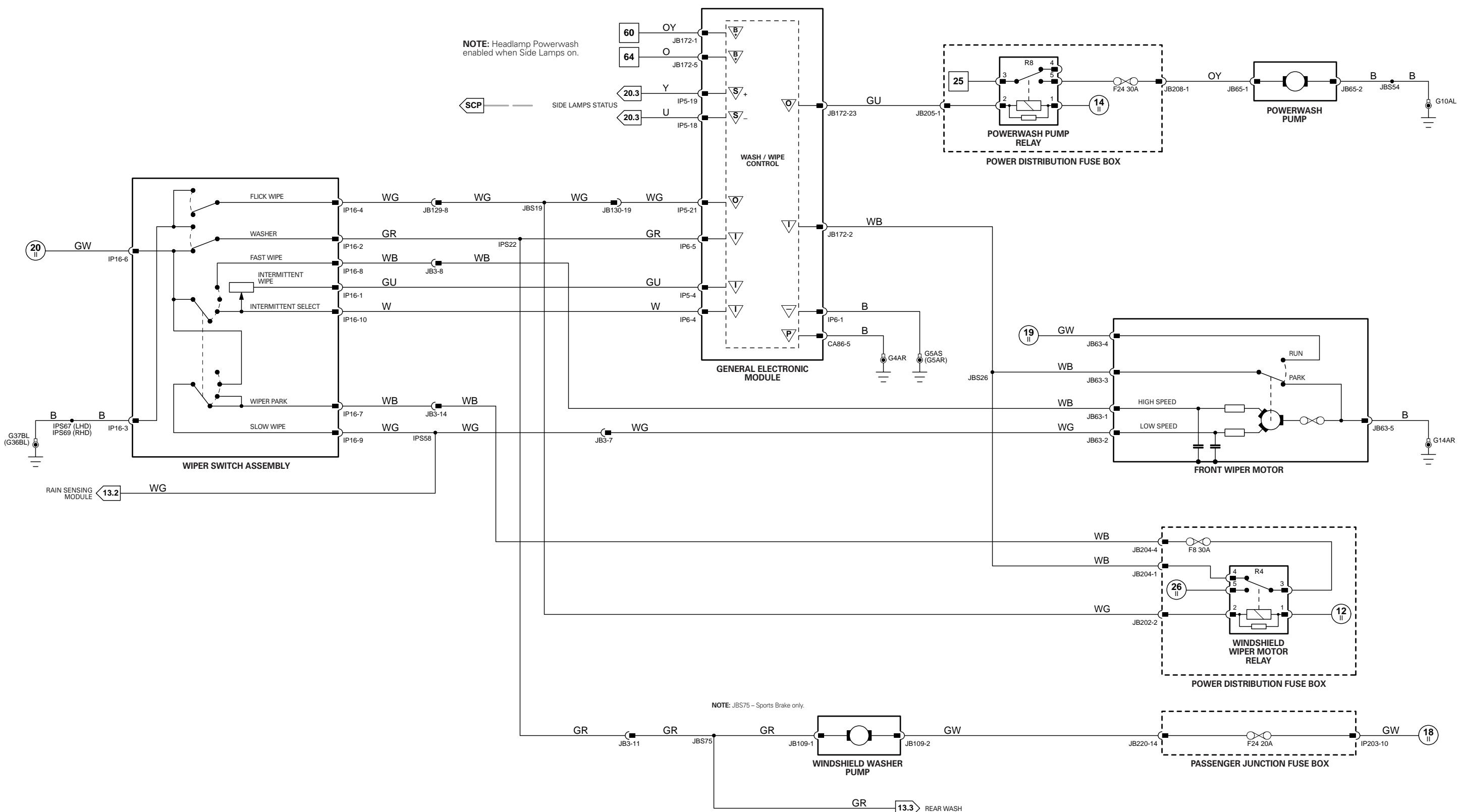


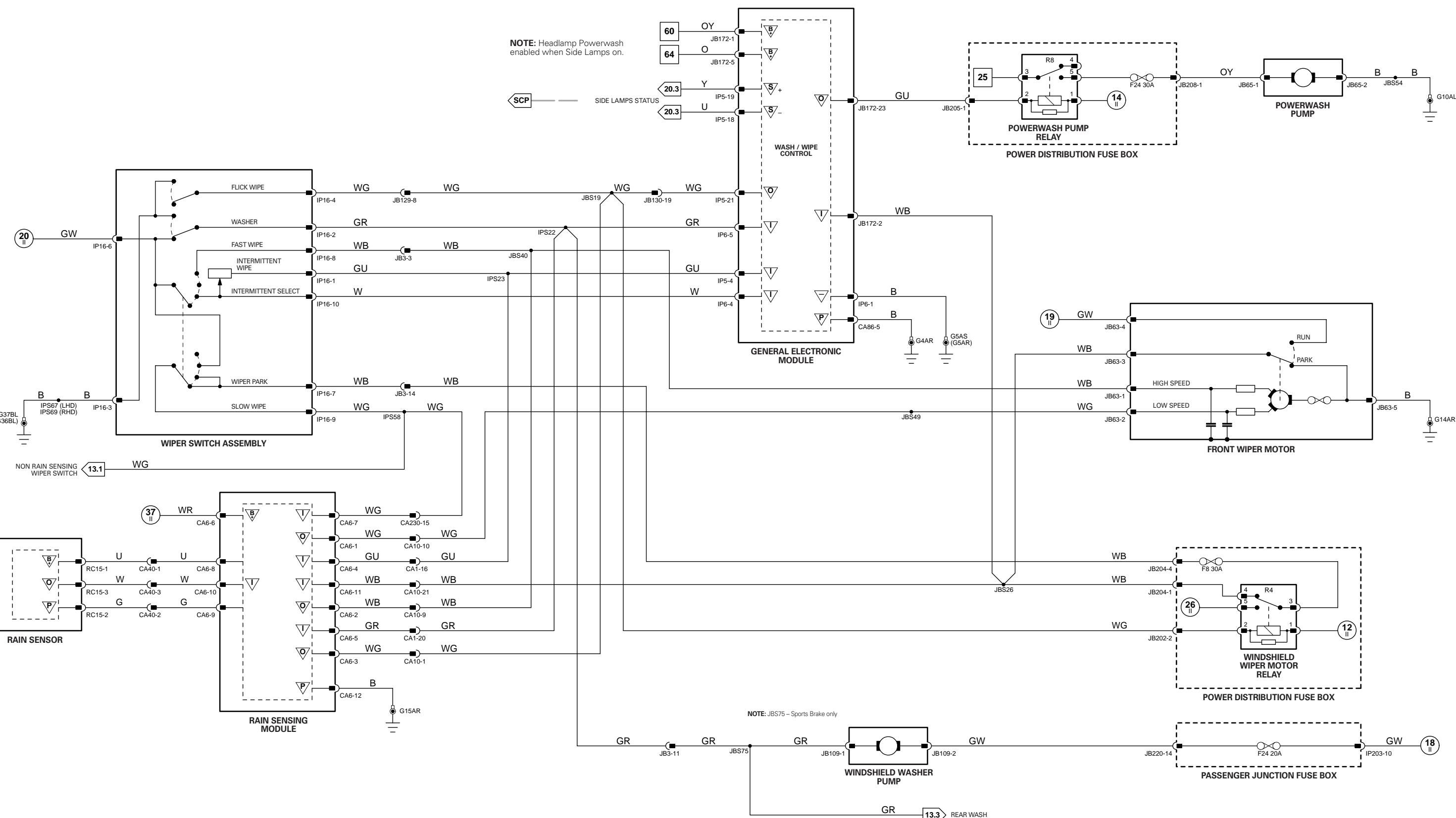


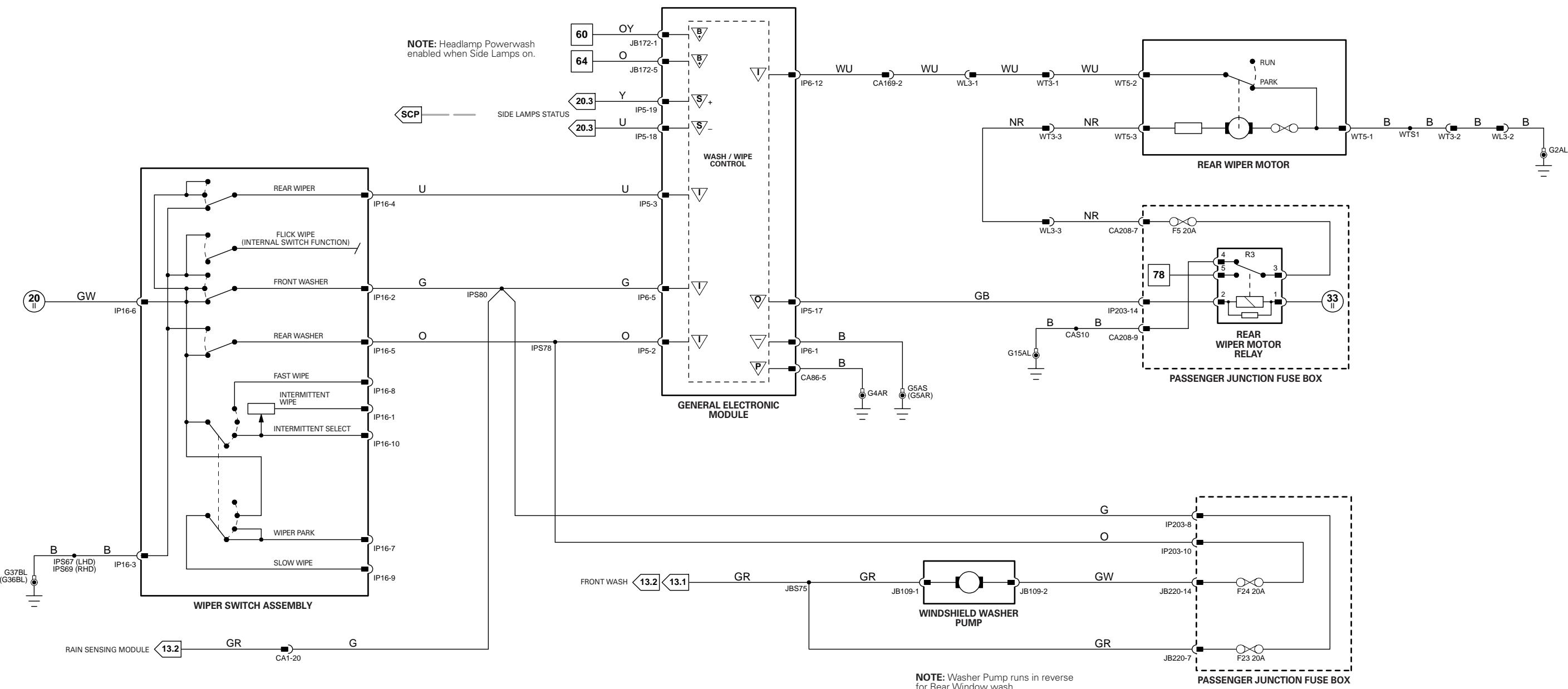


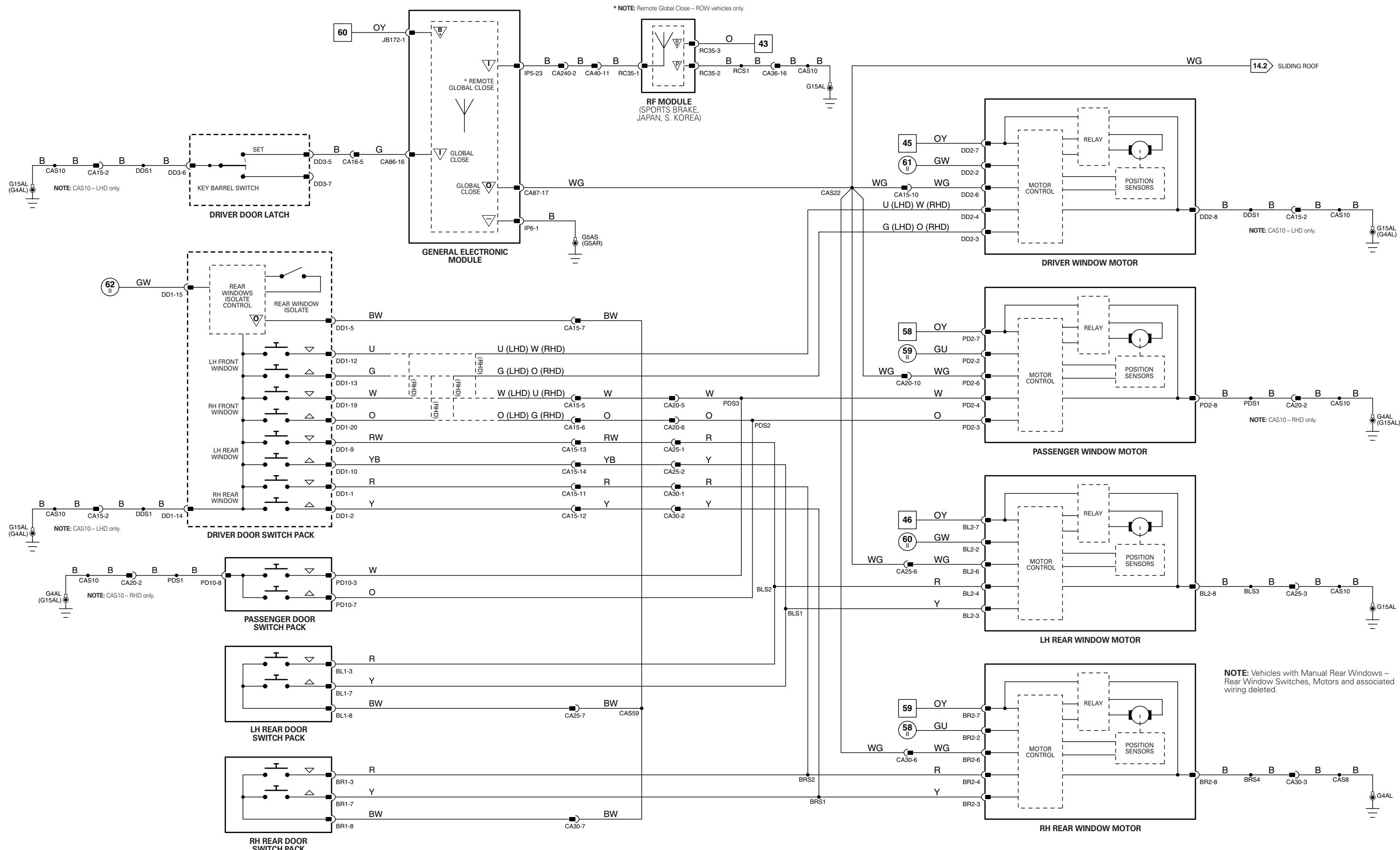


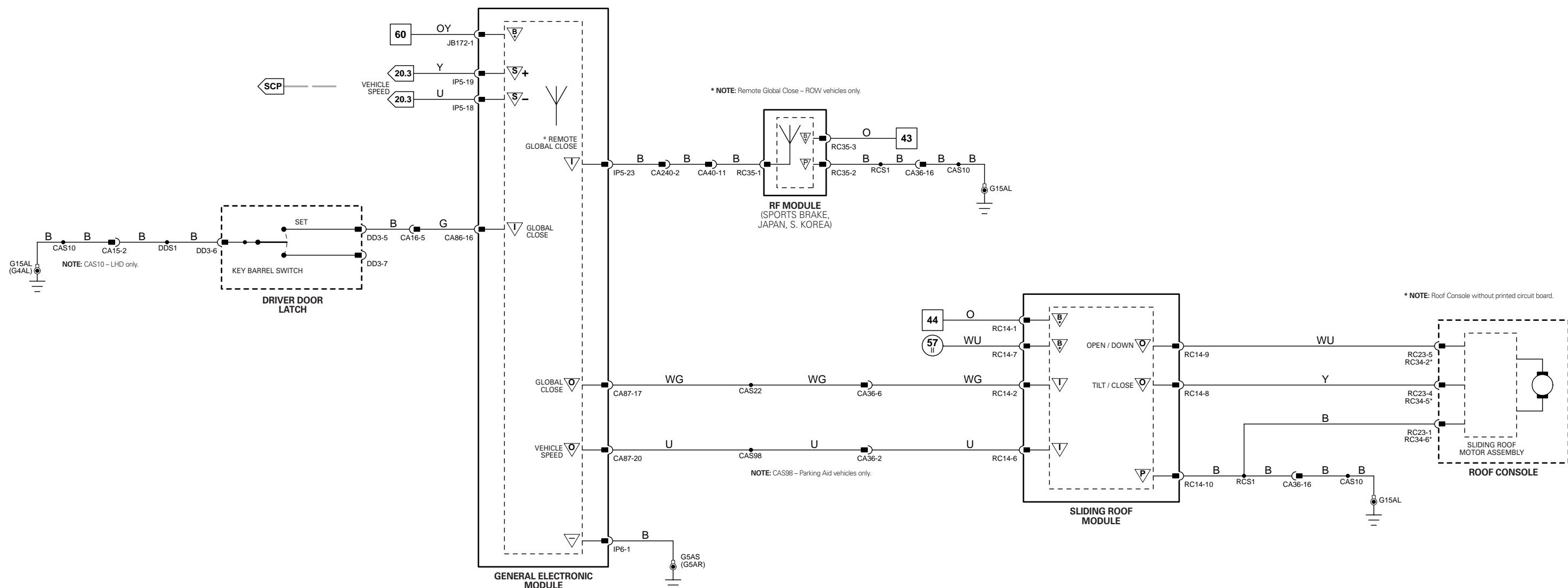


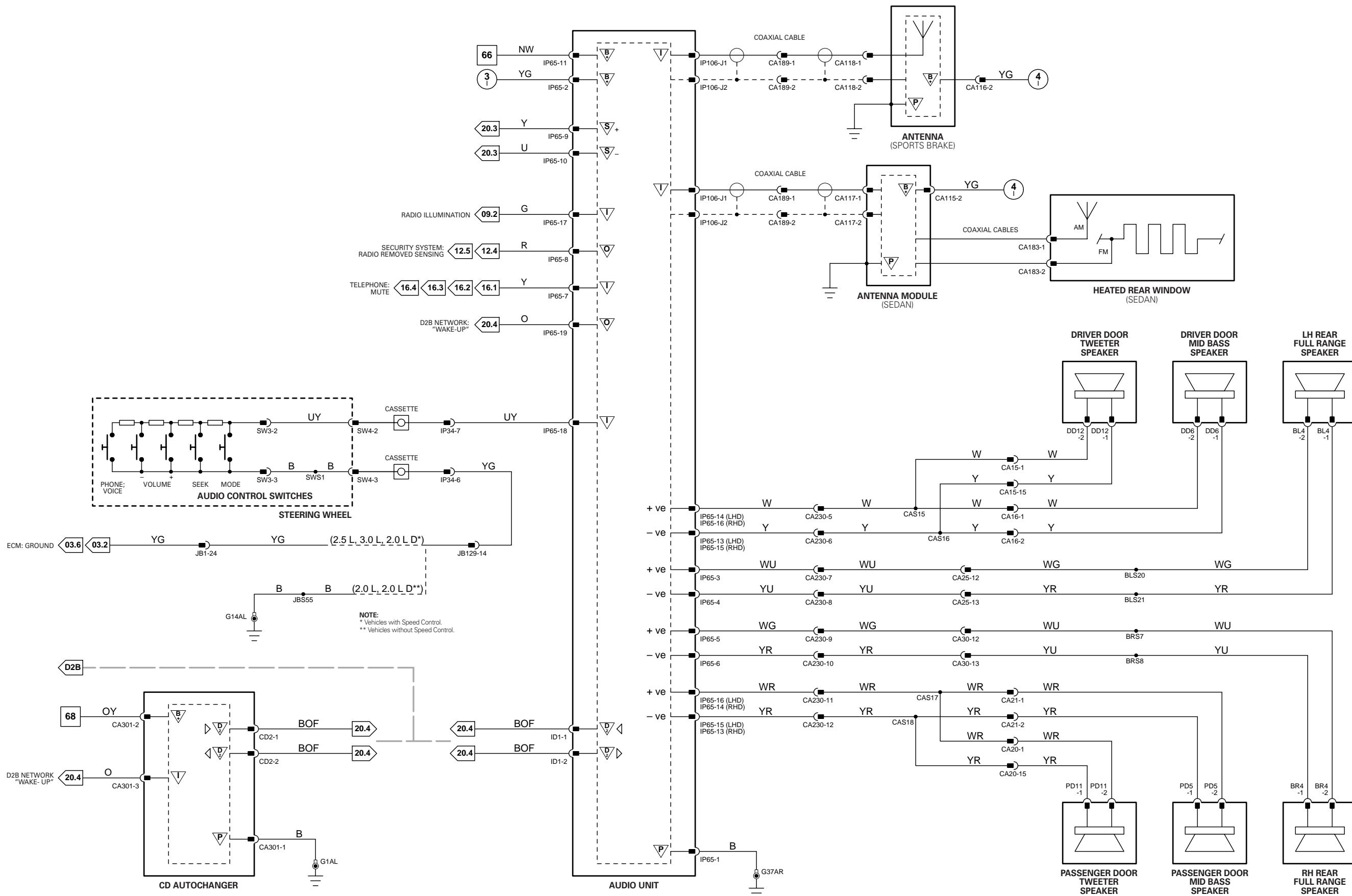


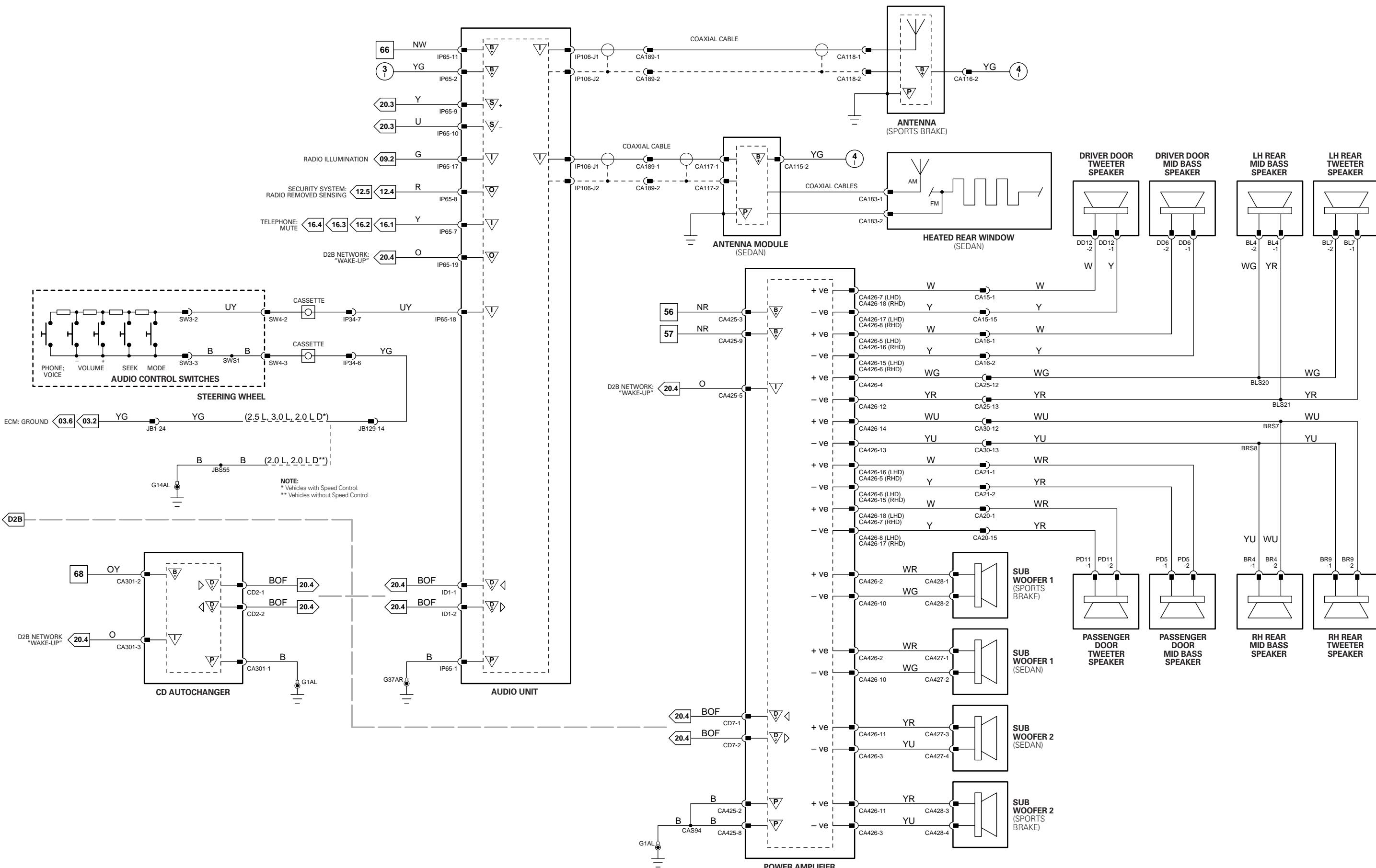


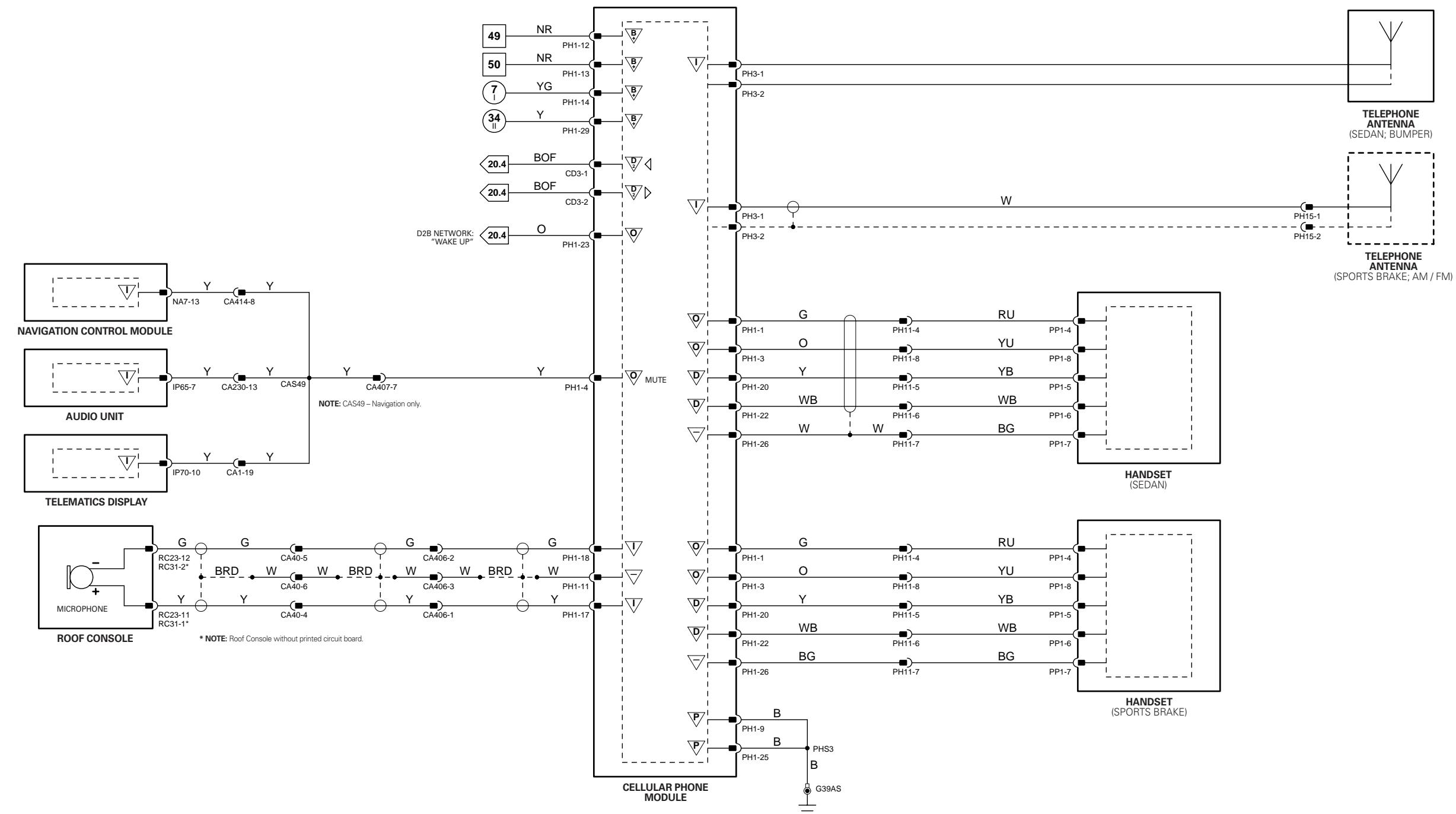


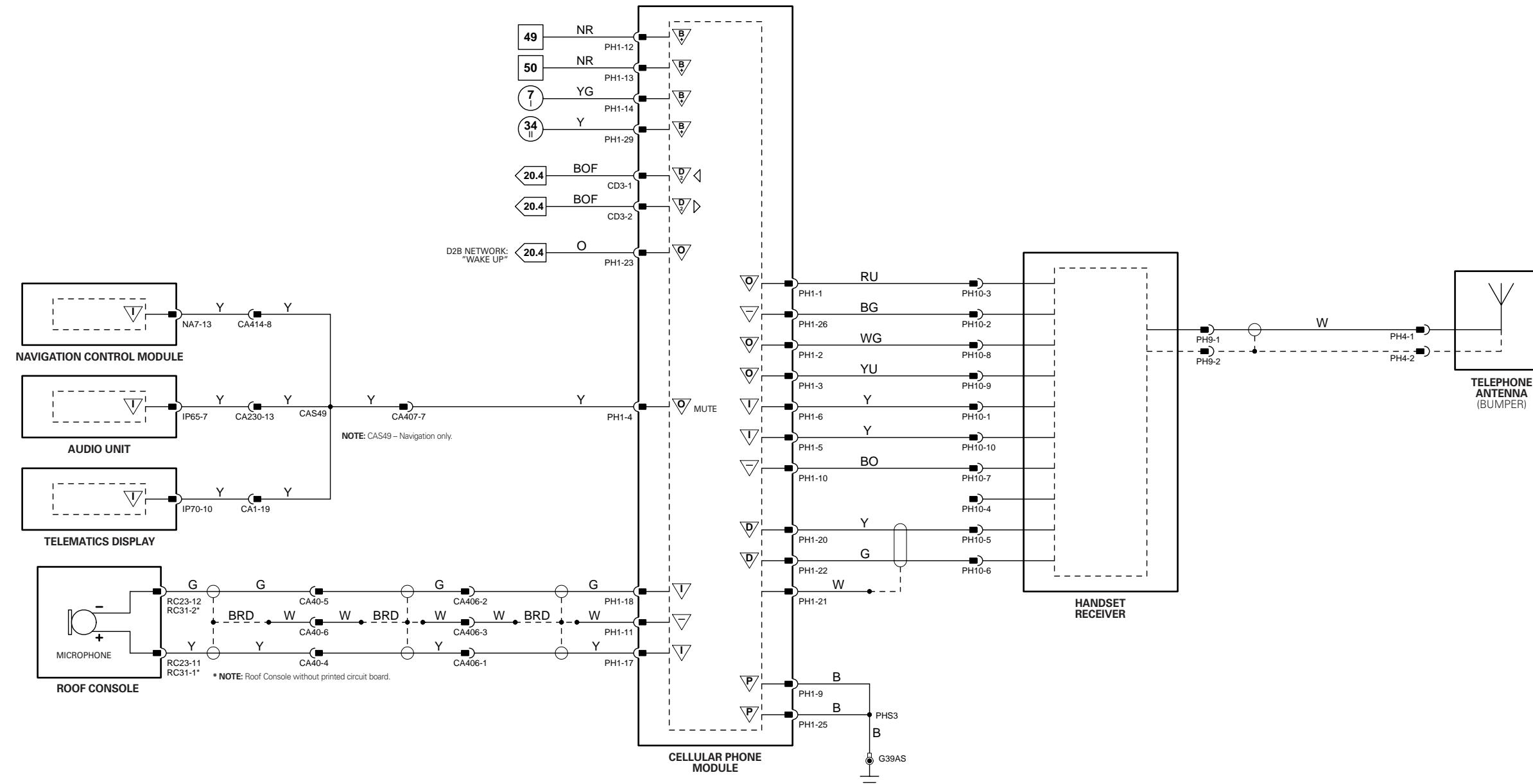


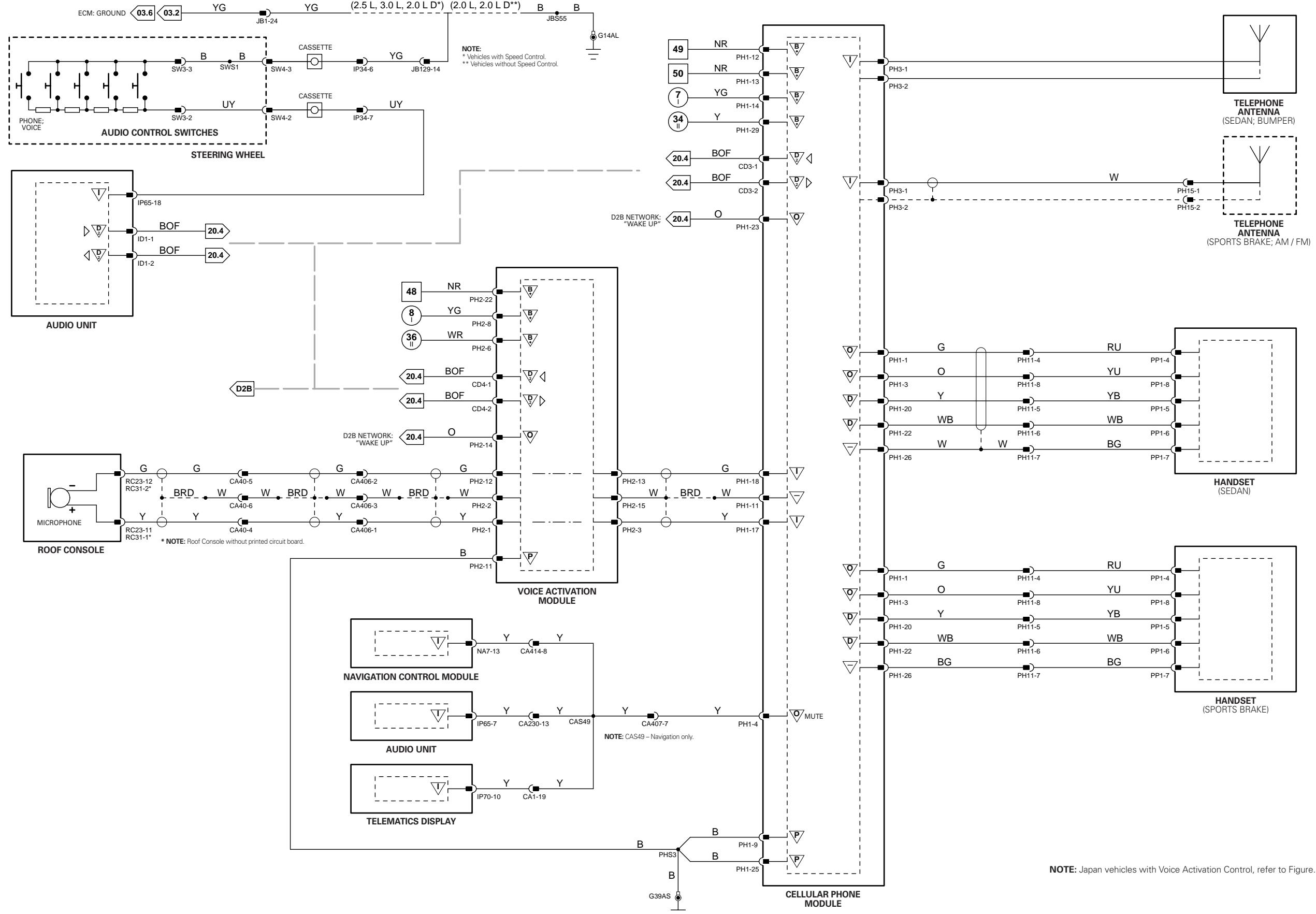


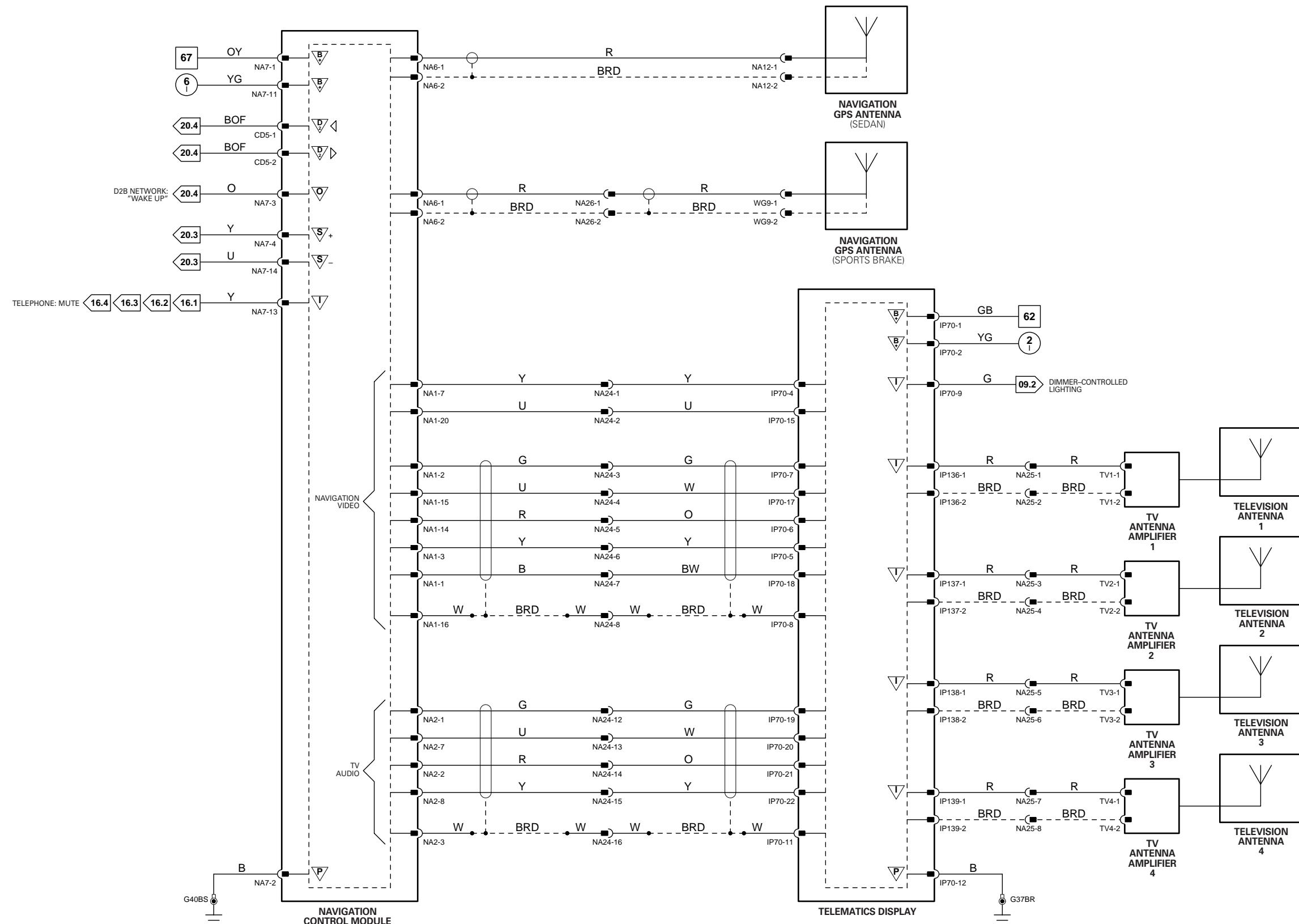


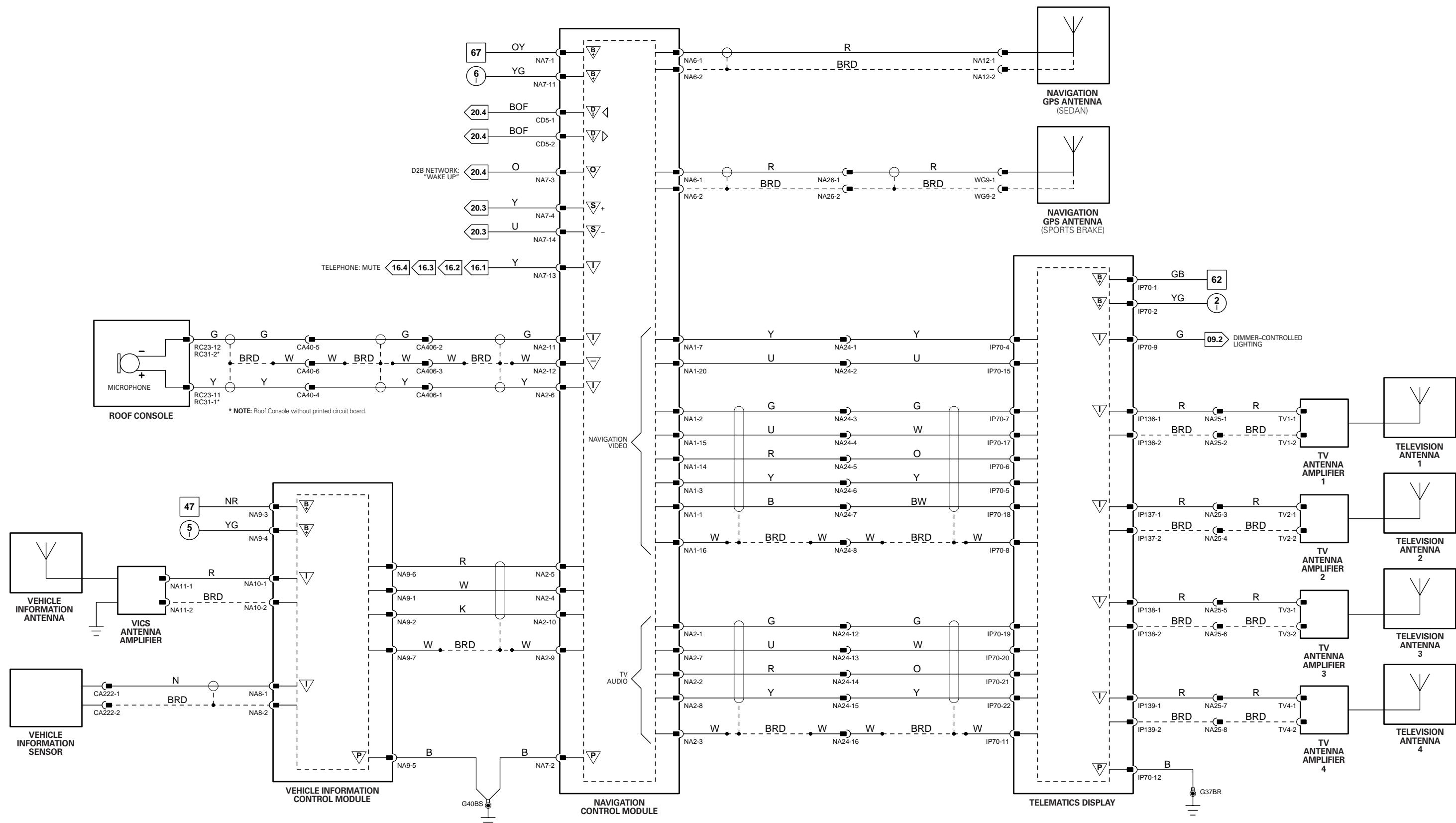


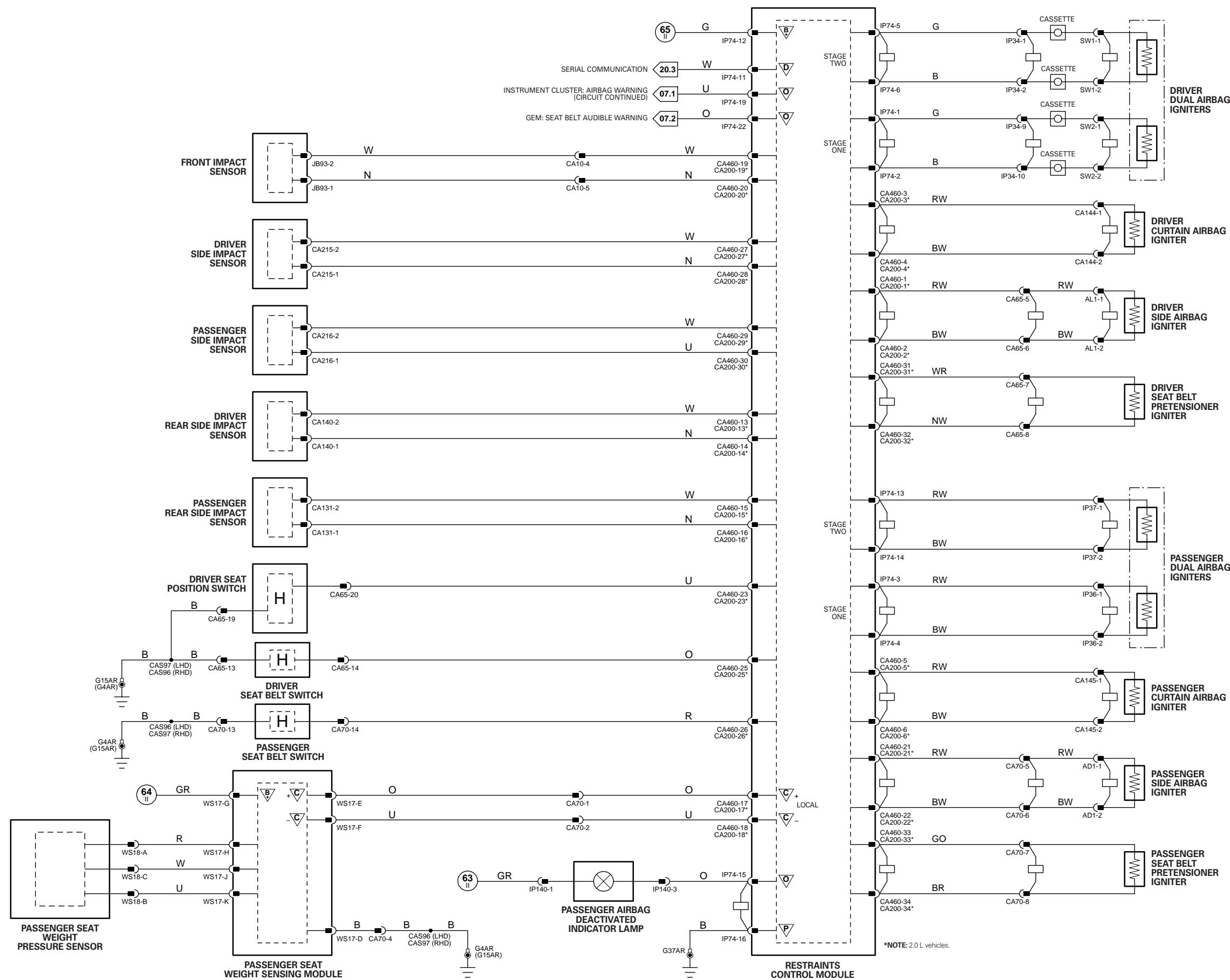


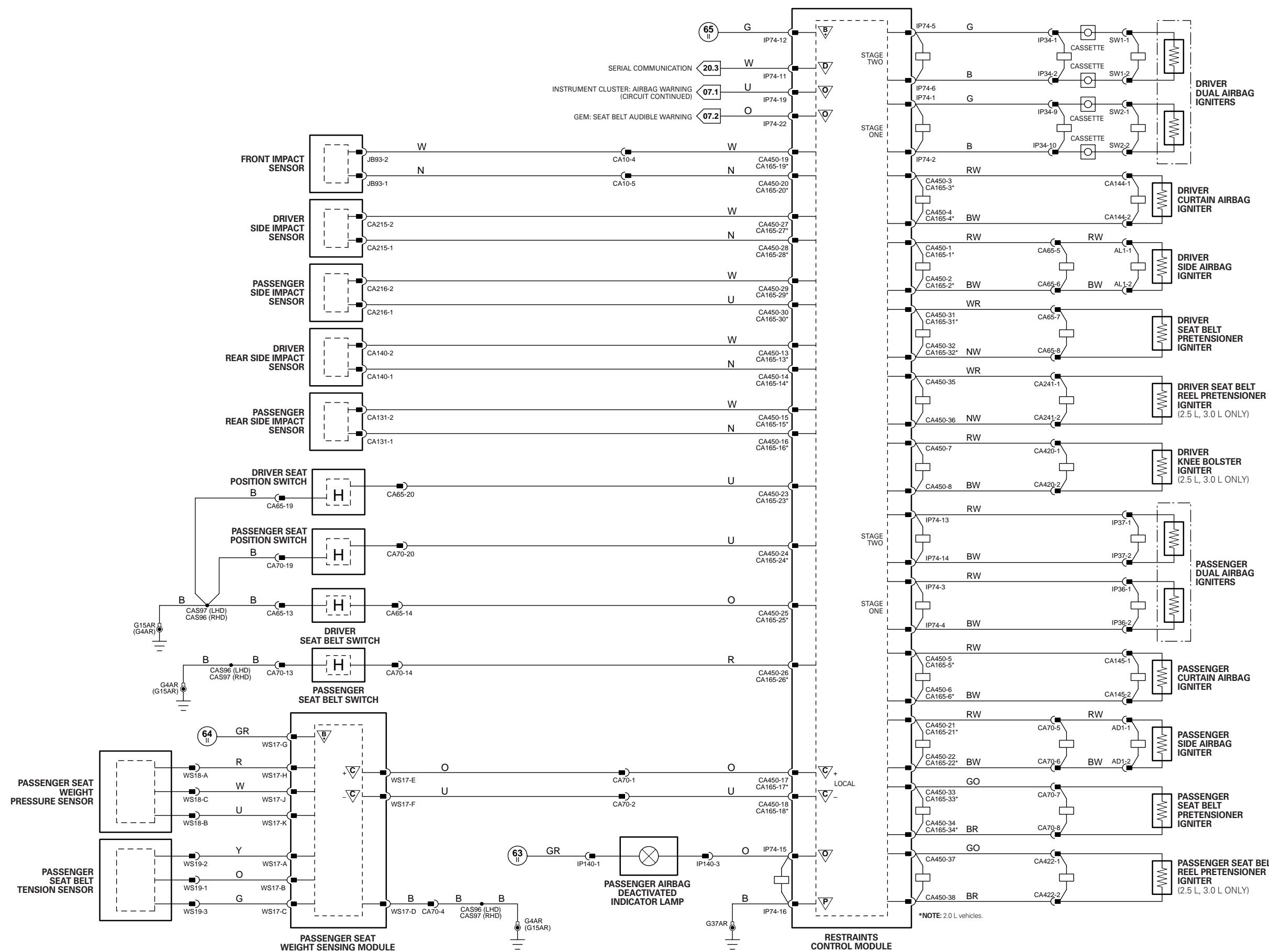


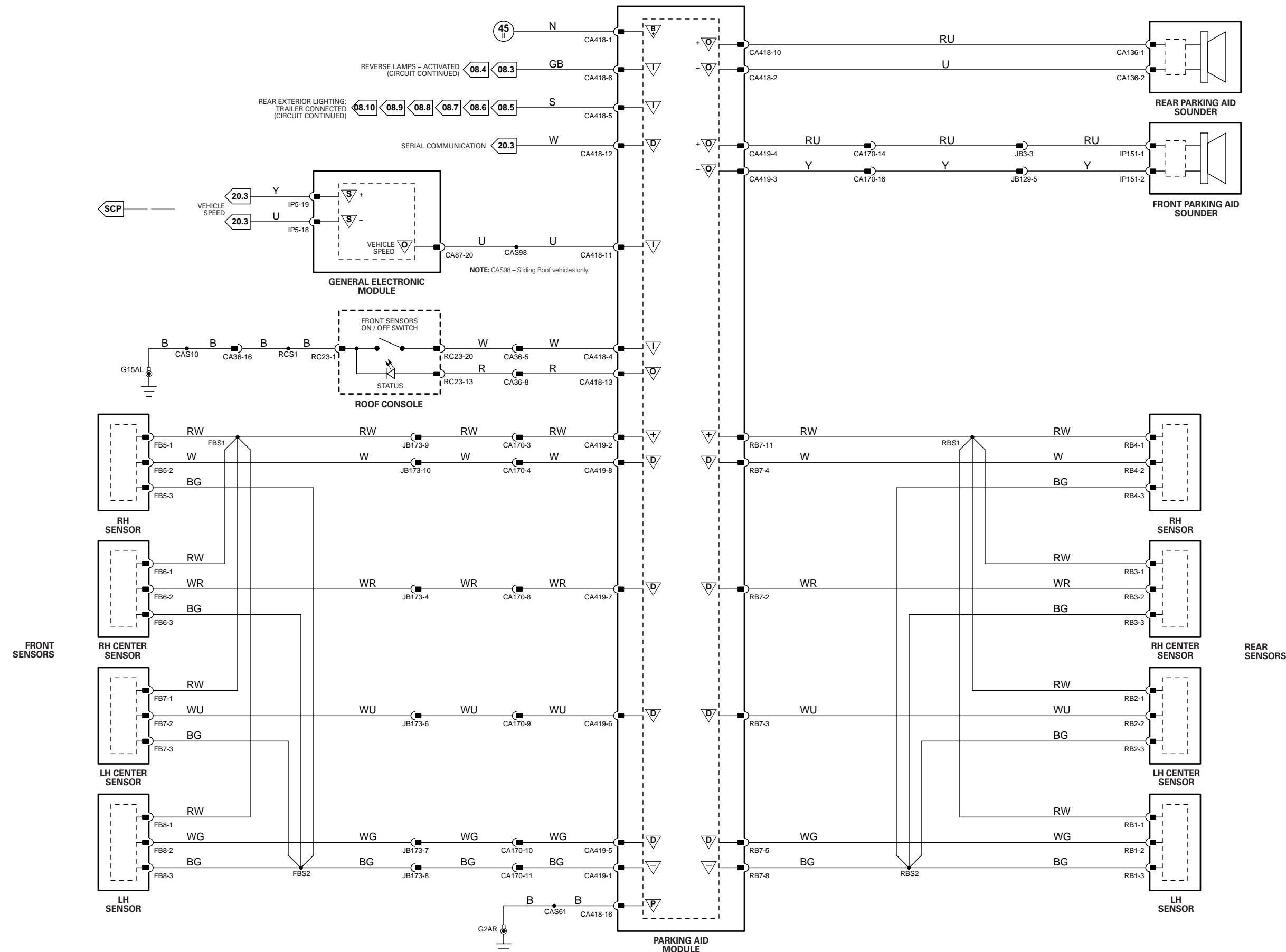


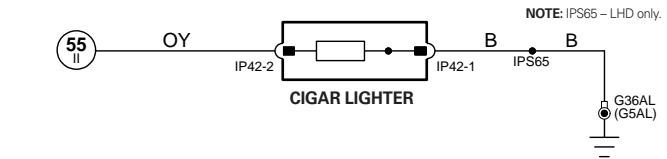
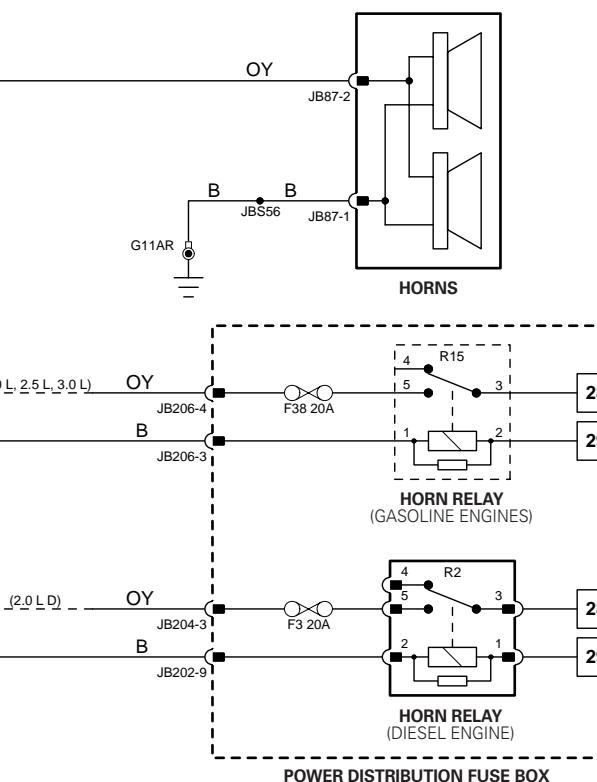
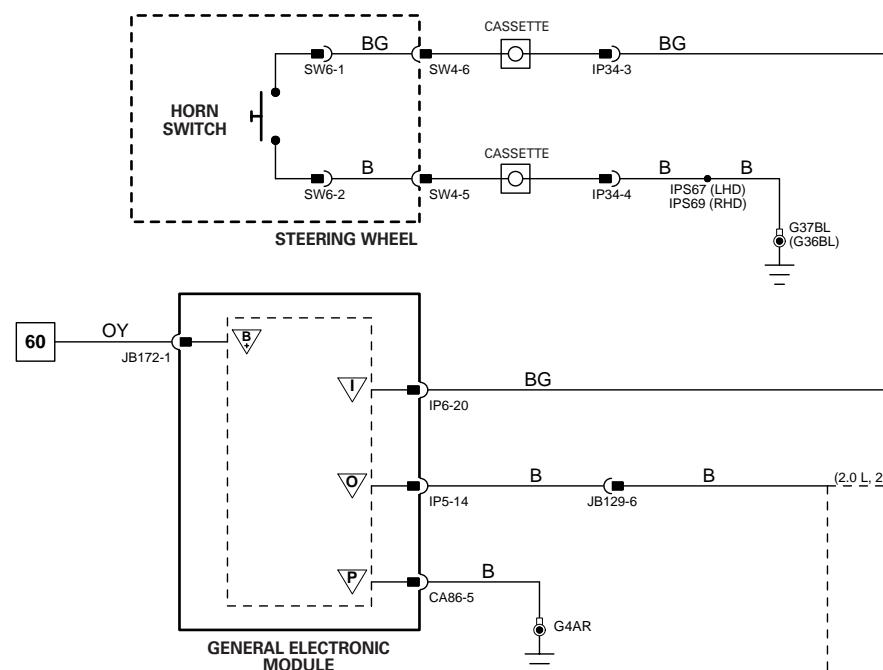
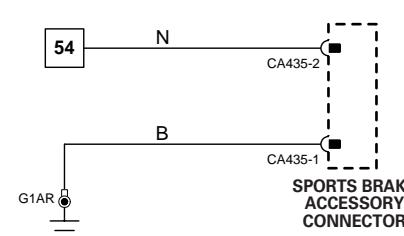
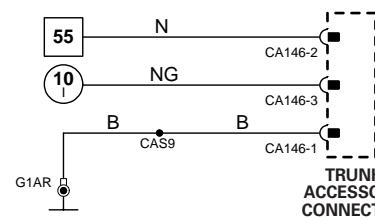
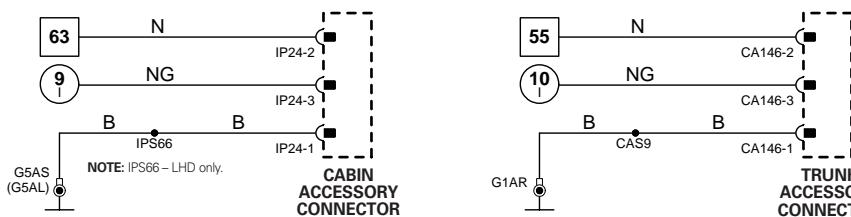
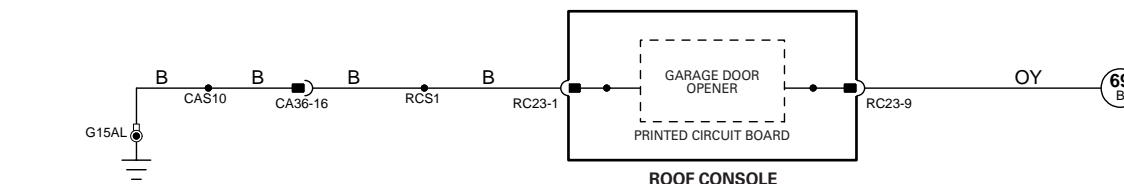


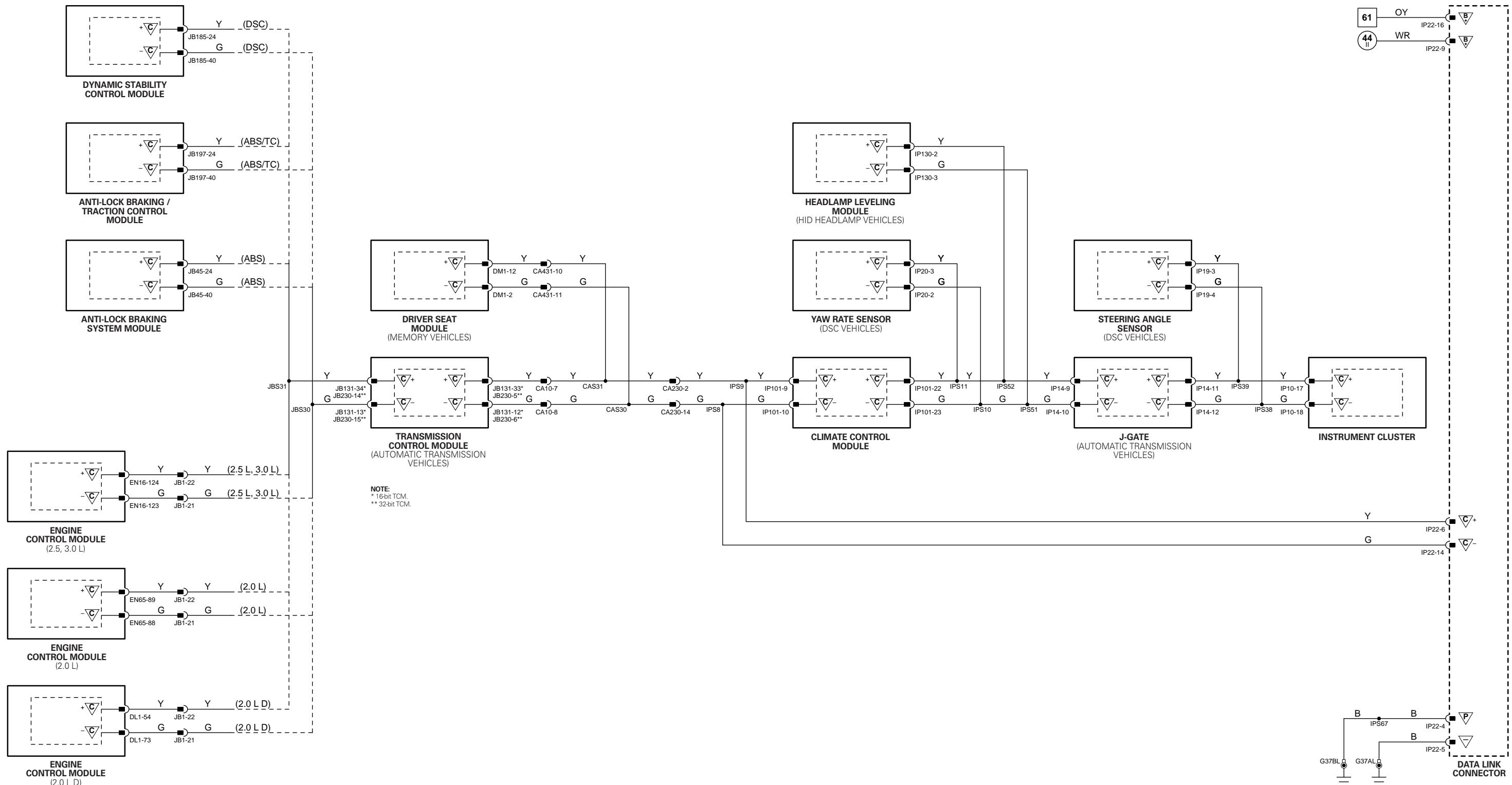


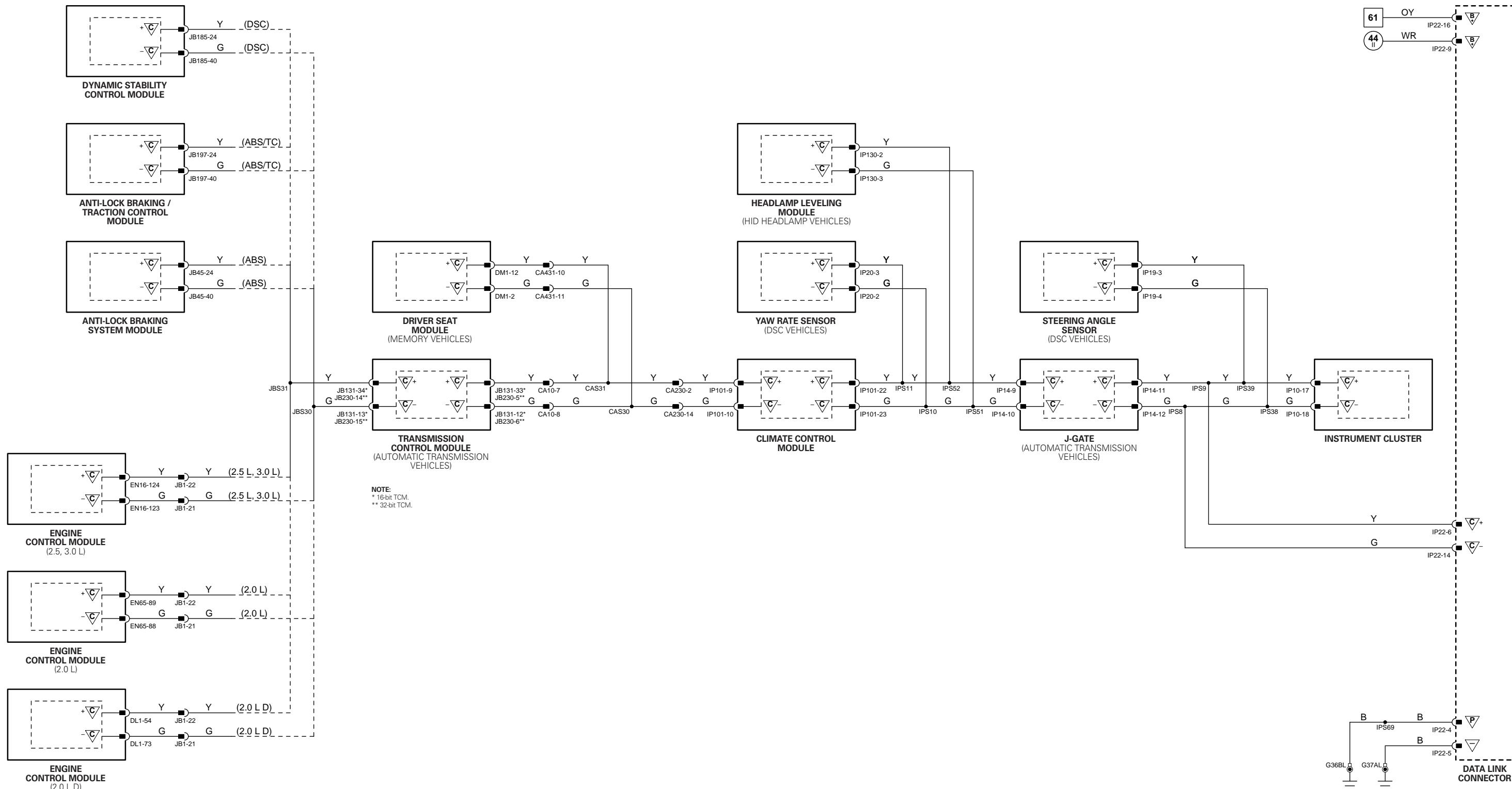


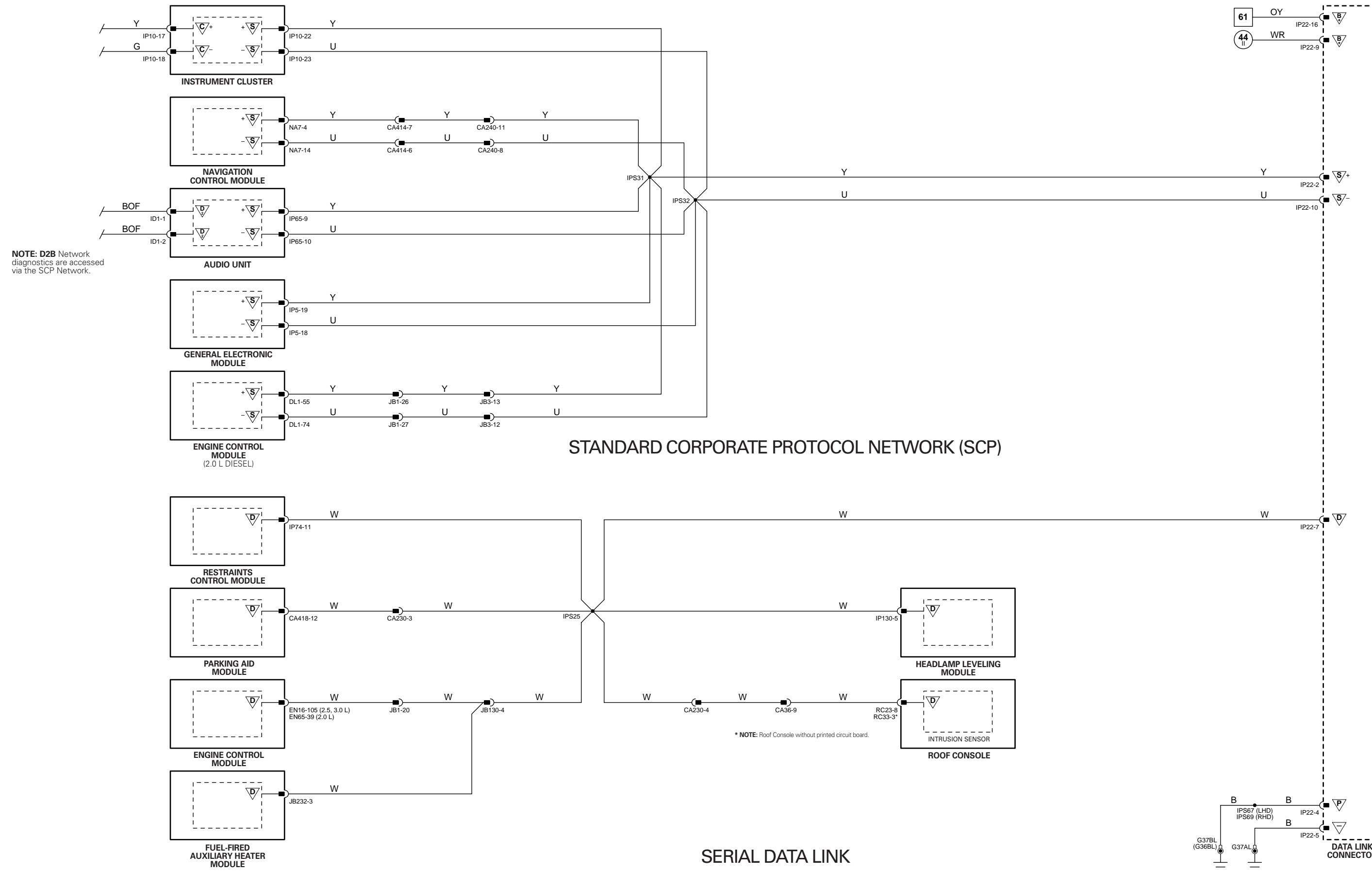


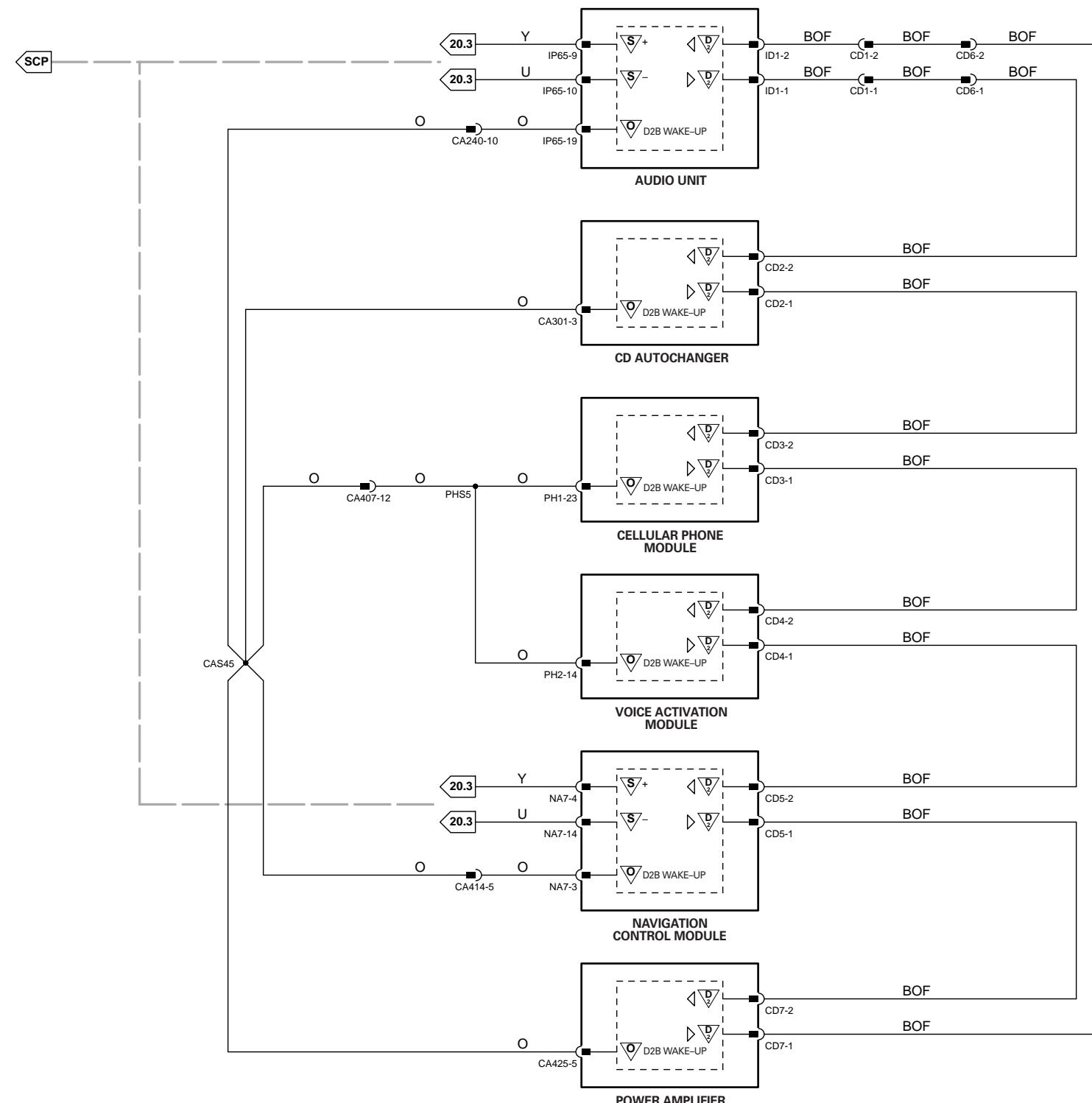


**HORN****CIGAR LIGHTER****ACCESSORY CONNECTORS****GARAGE DOOR OPENER**







**NOTES:**

The 6-module D2B Network shown depicts the greatest number of modules available. D2B Networks containing less than 6 modules are always connected in the sequence shown from top to bottom.

- 1 – Audio Unit – Master Module
- 2 – CD Autochanger
- 3 – Cellular Phone Module
- 4 – Voice Activation Module
- 5 – Navigation Control Module
- 6 – Power Amplifier

When modules are not fitted to the vehicle, the fiber optic cables and the connectors are deleted. Therefore, each Network containing less than 6 modules has a unique fiber optic and "wake up" circuit.

D2B Network diagnostics via SCP Network – refer to Figure 20.3.