



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



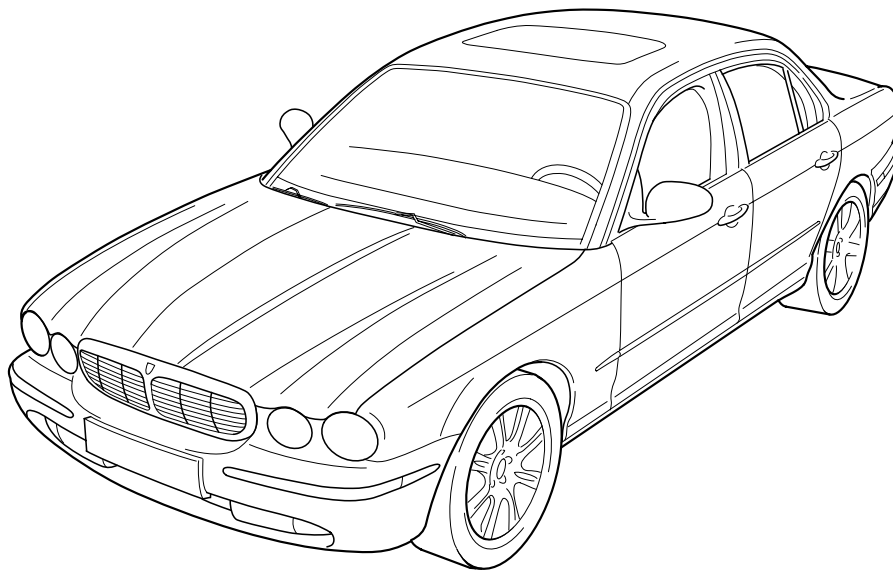
BY APPOINTMENT TO  
HER MAJESTY QUEEN ELIZABETH  
THE QUEEN MOTHER  
MANUFACTURERS OF DAIMLER AND JAGUAR CARS  
JAGUAR CARS LIMITED COVENTRY



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

# The New Jaguar XJ Range

## 2003.5 Model Year Electrical Guide



# PROVISIONAL

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

## General and EMS Acronyms

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
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
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 / Top
IMT VALVE / 2	Intake Manifold Tuning Valve / Bottom
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
SC	Supercharged
SCP	Standard Corporate Protocol Network
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

## Control Module Acronyms

ASCM	Adaptive Speed Control Module
ASM	Air Suspension Module
AUDIO	Audio Unit
CCM	Climate Control Module
CPM	Cellular Phone Module
DDM	Driver Door Module
DSCM	Dynamic Stability Control Module
DSM	Driver Seat Module
ECM	Engine Control Module
FEM	Front Electronic Module
HLM	Headlamp Leveling Module
IC	Instrument Cluster
JGM	J-Gate Module
MCP	Multimedia Control Panel
NCM	Navigation Control Module
PAM	Parking Aid Module
PBM	Parking Brake Module
RCM	Restraints Control Module
RCCM	Rear Climate Control Module
REM	Rear Electronic Module
RMM	Rear Memory Module
SCLM	Steering Column Lock Module
VAM	Voice Activation Module



## 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 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 normally accompanies 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 2003.5 Model Year XJ Range Electrical System Architecture

### Power Supplies

The Jaguar 2003.5 Model year XJ Range 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 “Switched System Power Supply”. The “Switched System Power Supply” circuit is controlled via the FEM (Front Electronic Module) and the REM (Rear Electronic Module). Refer to Figures 01.6 and 01.7 for circuit activation details.

### Fuse Boxes

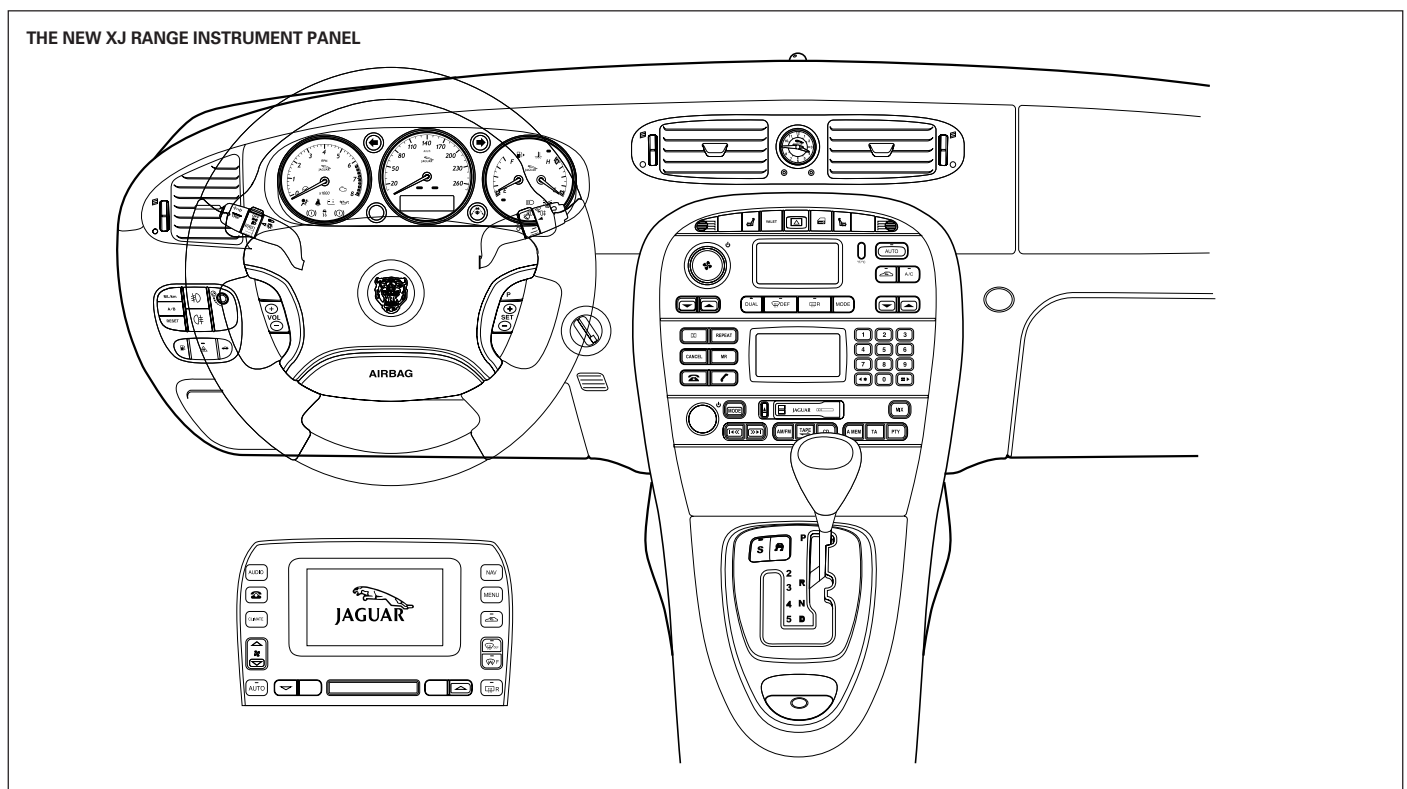
The electrical harness incorporates three serviceable power distribution fuse boxes: the Front Power Distribution Fuse Box located in the engine compartment, the Rear Power Distribution Fuse Box located in the trunk and the Passenger Junction Fuse Box located in the front right-hand foot well. All fuses and relays (except the trailer towing accessory kit) are located in the three fuse boxes.

### Vehicle Networks

The New XJ Range 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.















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

## Reference Symbols




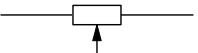
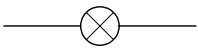
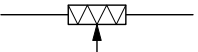
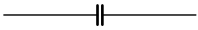
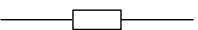
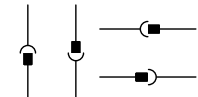



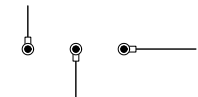

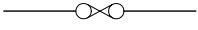
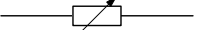
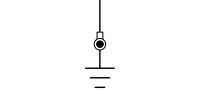
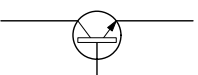
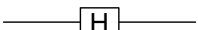



-  Battery power supply
-  Ignition switched auxiliary power supply (key I, II)
-  Ignition switched power supply (key II, III)
-  Switched System Power Supply power supply
-  Engine Management System power supply
-  Figure number reference
-  Controller Area Network
-  Standard Corporate Protocol network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

## Control Module Pin Symbols

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

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

## Wiring Symbols

- |                            |   |  |                      |
|----------------------------|---|--|----------------------|
| Splice                     |    |    | Motor                |
| Simplified splice          |  |  | Potentiometer        |
| Bulb                       |  |  | Pressure transducer  |
| Capacitor                  |  |  | Resistor             |
| Connector                  |  |  | Solenoid             |
| Diode                      |  |  | Suppression diode    |
| Eyelet and stud            |  |  | Suppression resistor |
| Fuse                       |  |  | Thermistor           |
| Ground                     |  |  | Transistor           |
| Hall effect sensor         |  |  | Wire continued       |
| Light emitting diode (LED) |  |  | Zener diode          |



**Harness Codes**

AC	Air Conditioning Harness
BC	Battery Ground Harness
BF	Front Bumper Harness
BL	Cabin to Trunk Lid Harness
BO	Battery Harness
BR	Rear Bumper Harness
BS	Battery Backed Sounder Harness
BT	Trunk Lid Harness
CC	Center Console Harness
CL	Center Console Link Harness
CP	Cooling Pump Harness
CR	Cabin Harness
CV	EVAP Canister Close Valve Link Harness
DB	D2B Network Harness
DD	Driver Door Harness
DL	Driver Seat Lumbar Harness
DT	Driver Door Trim Harness
EC	Engine Compartment Harness
EL	Starter Motor Solenoid Link Harness
FP	Fuel Tank Link Harness
GB	Transmission Harness
GC	Radiator Cooling Fan Harness
IJ	Fuel Injector Harness
IL	Fuel Injector Harness
IP	Instrument Panel (Fascia) Harness
IS	Fuel Injector Link Harness
LL	LH Rear Seat Lumbar Harness
LS	LH Rear Seat Harness
LT	LH Rear Door Trim Harness
PD	Passenger Door Harness
PH	Telephone Harness
PI	Engine Management Harness
PL	Passenger Seat Lumbar Harness
PS	Passive Security Sounder Harness
PT	Passenger Door Trim Harness
RA	Rear Air Conditioning Harness
RC	Rear In-Car Entertainment Controls Harness
RF	Roof Harness
RL	LH Rear Door Harness
RR	RH Rear Door Harness
RS	RH Rear Seat Harness
RT	RH Rear Door Trim Harness
SD	Driver Seat Harness
SL	LH Rear Seat Motor Harness
SP	Passenger Seat Harness
SR	RH Rear Seat Motor Harness
SW	Steering Wheel Harness
TL	Telematics Harness
TT	Trailer Tow Harness
VL	LH Rear Television Harness
VP	Voice Activation Pre-Wire Harness
VR	RH Rear Television Harness
VX	RH Rear Television Link Harness
VY	LH Rear Television Link Harness
YL	RH Rear Seat Lumbar Harness

**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	Black fiber optic (D2B Network)

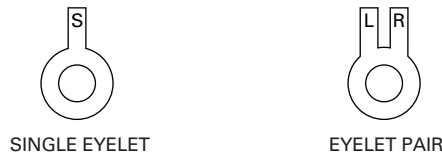
**Code Numbering**

When numbering connectors, grounds and splices, Jaguar Engineering uses a three-position format: CR001, CR002, etc. Because space is limited in this Electrical Guide the codes have, in most cases, been shortened. Thus CR001-001 becomes CR1-1, CR002-001 becomes CR2-1, 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).



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:

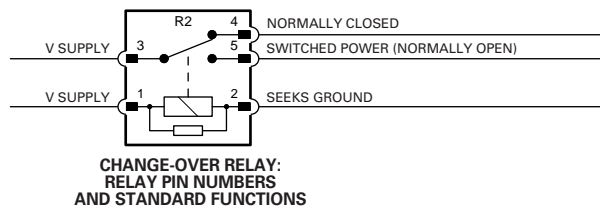


## Relays

### Serviceable Relays

Serviceable relays are located in all three 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.

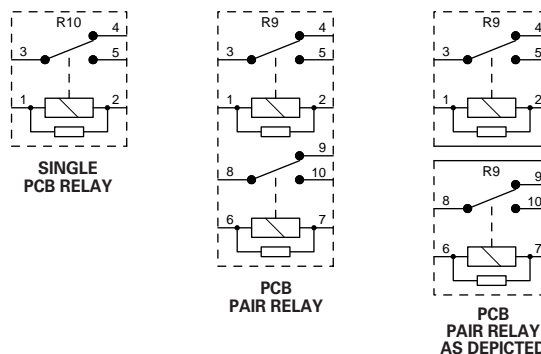
EXAMPLE:



### Non-Serviceable Relays

Non-serviceable relays are located in all three 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.

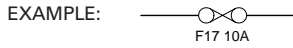
EXAMPLE:





### Fuses

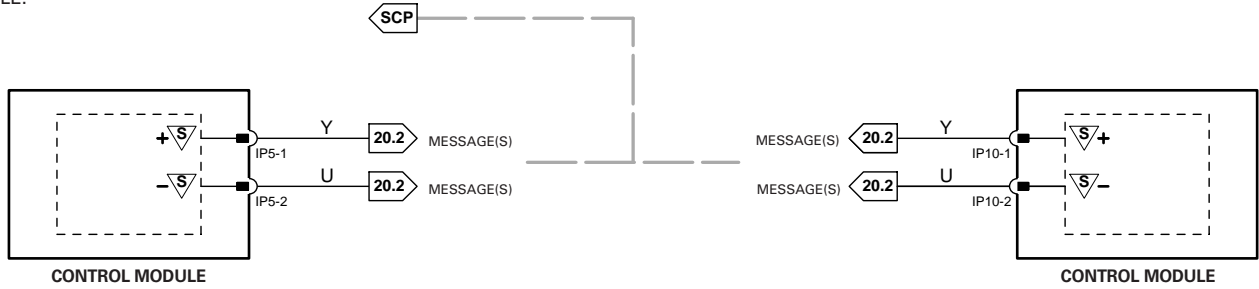
All fuses are located in the fuse boxes. Each fuse is identified by an “F” number unique only to the fuse box in which it is located.



### 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:



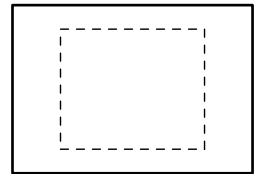
COMPLETE COMPONENTS AND CONTROL MODULES



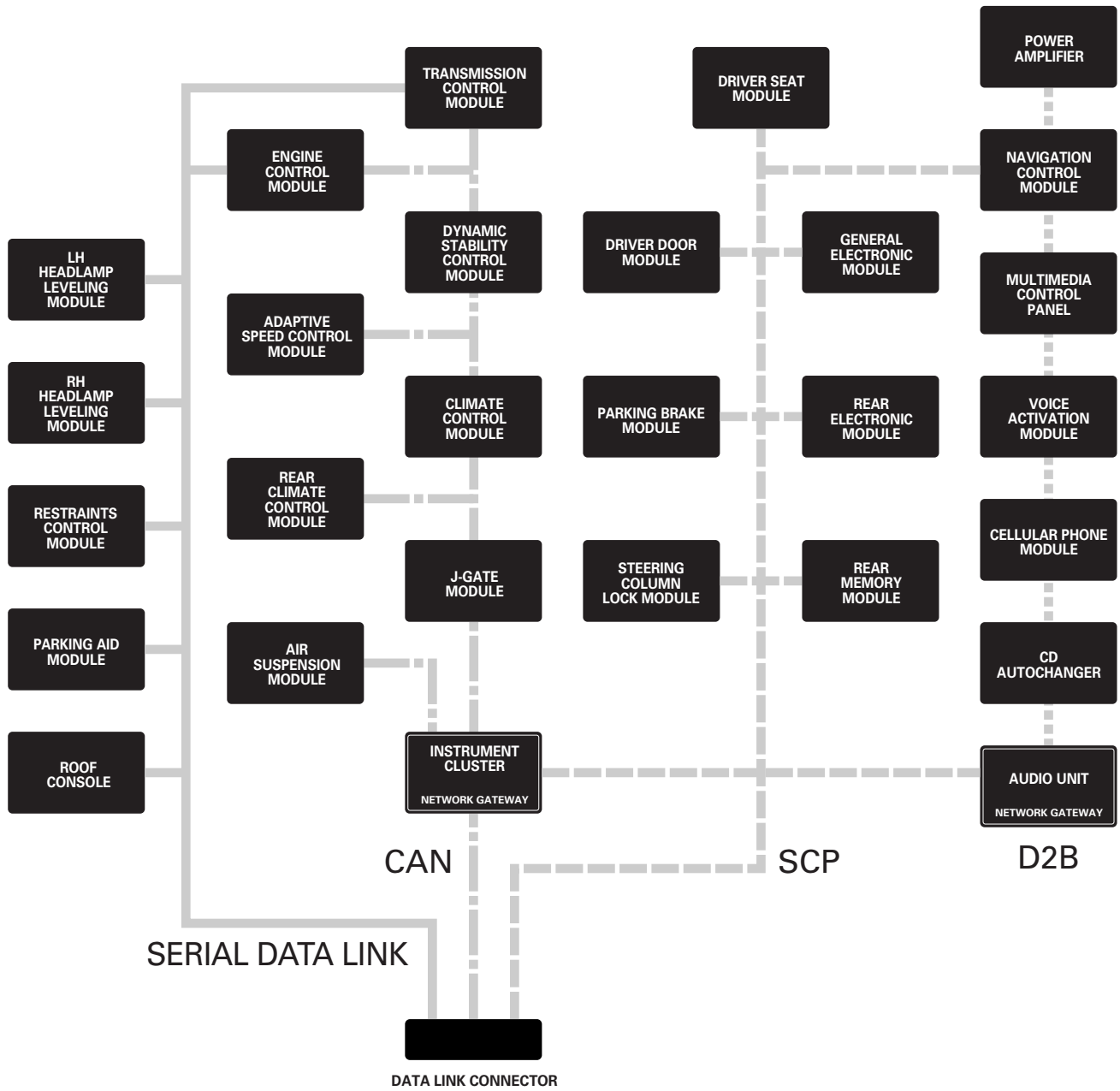
INCOMPLETE COMPONENTS (EXCEPT CONTROL MODULES)



ASSEMBLIES AND POWER DISTRIBUTION FUSE BOXES

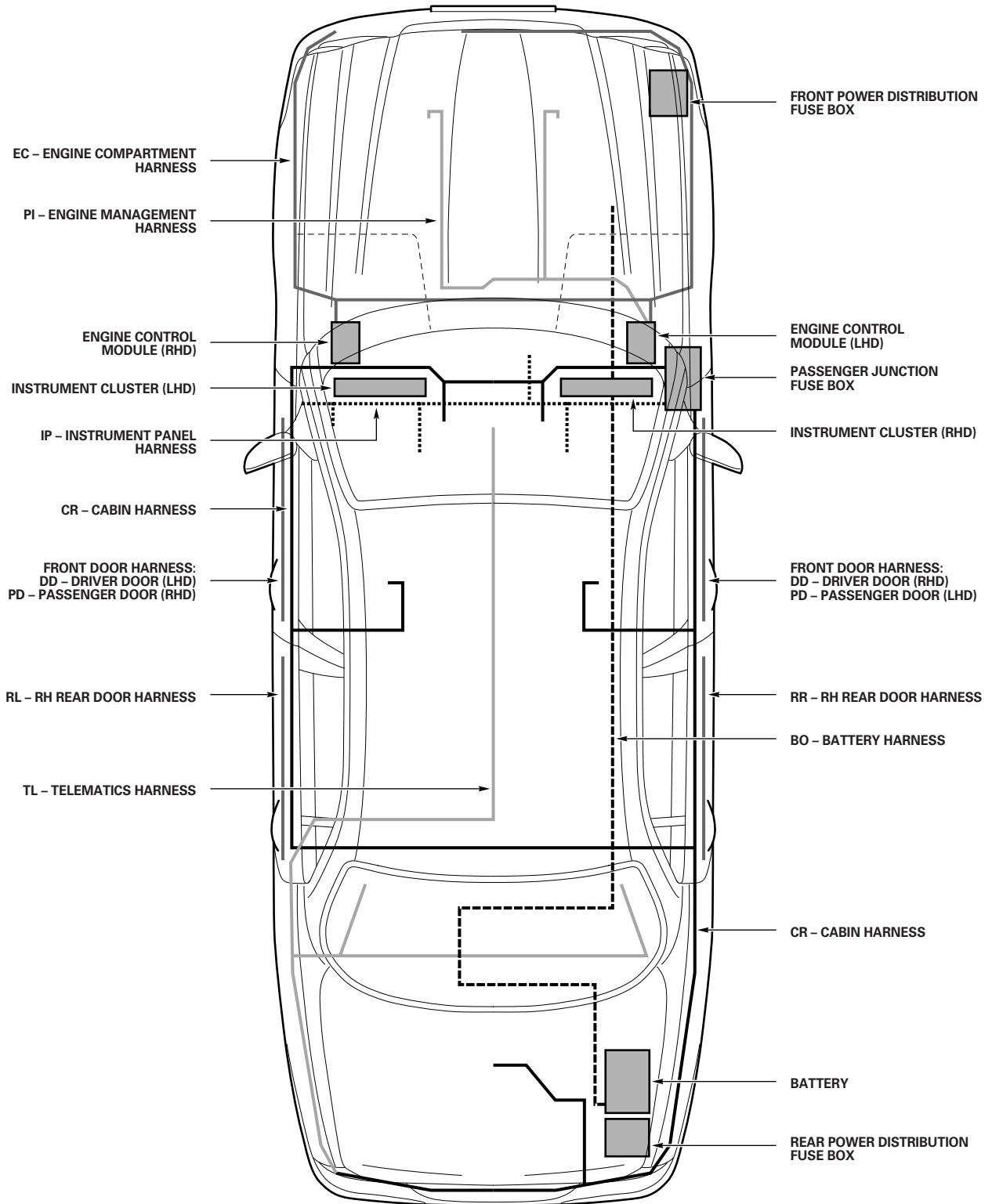


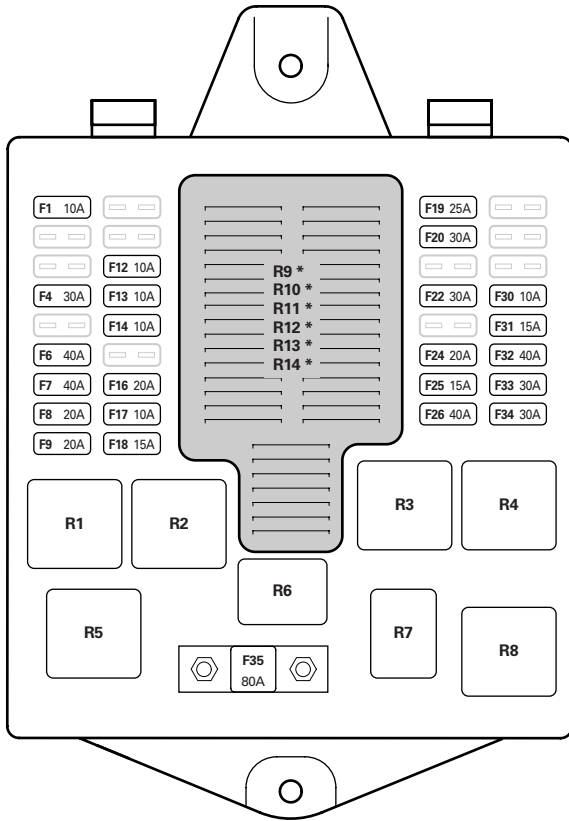
COMPONENTS WITH INTERNAL ELECTRONIC CIRCUIT



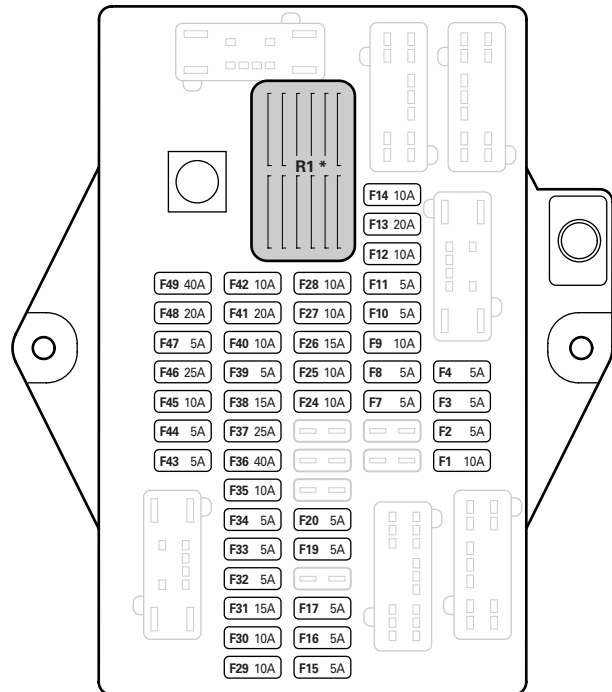
- SERIAL DATA LINK
- - - - CAN NETWORK
- - - - SCP NETWORK
- ..... D2B NETWORK

NOTE: TYPICAL XJ RANGE NETWORK CONFIGURATION (FULL OPTION SET). REFER TO FIGURES 20.1, 20.2, 20.3, AND 20.4 FOR CIRCUIT DETAILS.

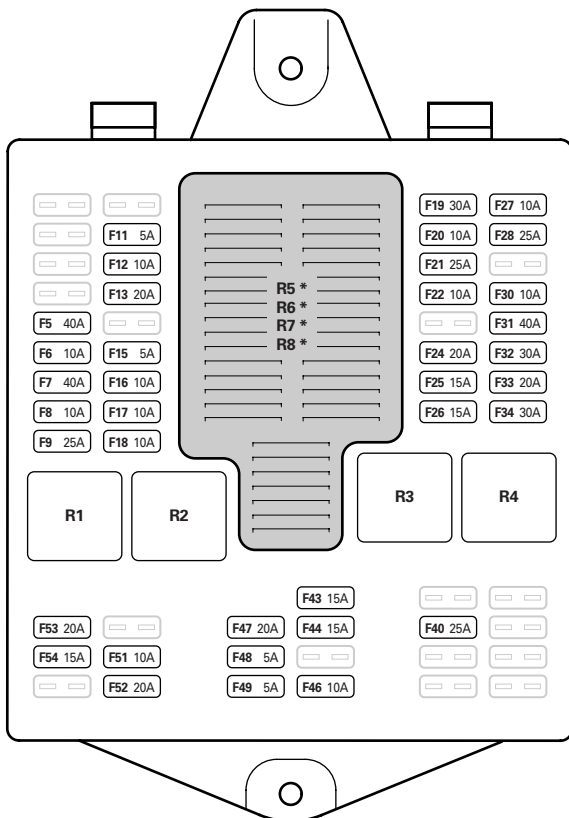




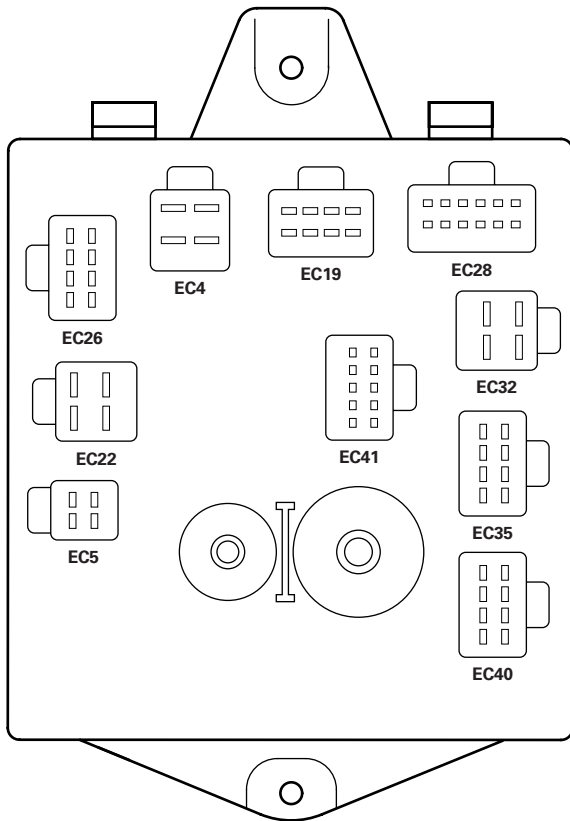
**FRONT POWER DISTRIBUTION FUSE BOX**  
\* NON-SERVICEABLE PCB RELAY



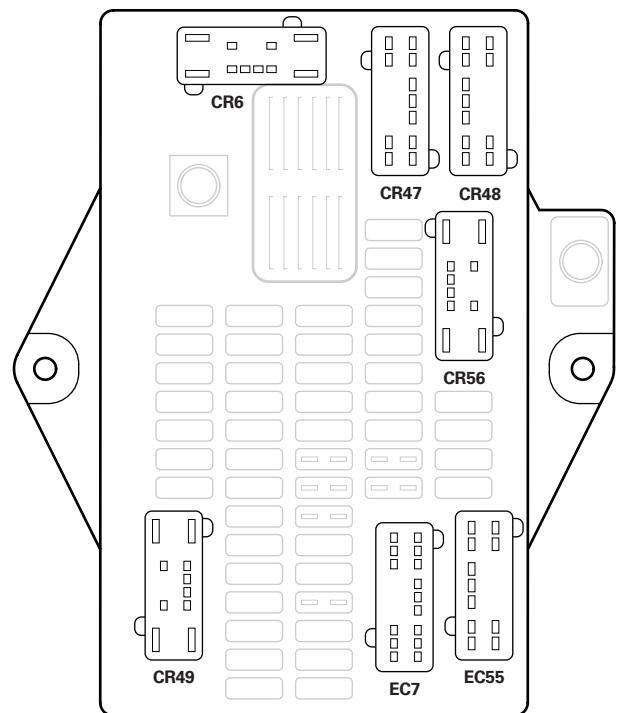
**PASSENGER JUNCTION FUSE BOX**  
\* NON-SERVICEABLE PCB RELAY



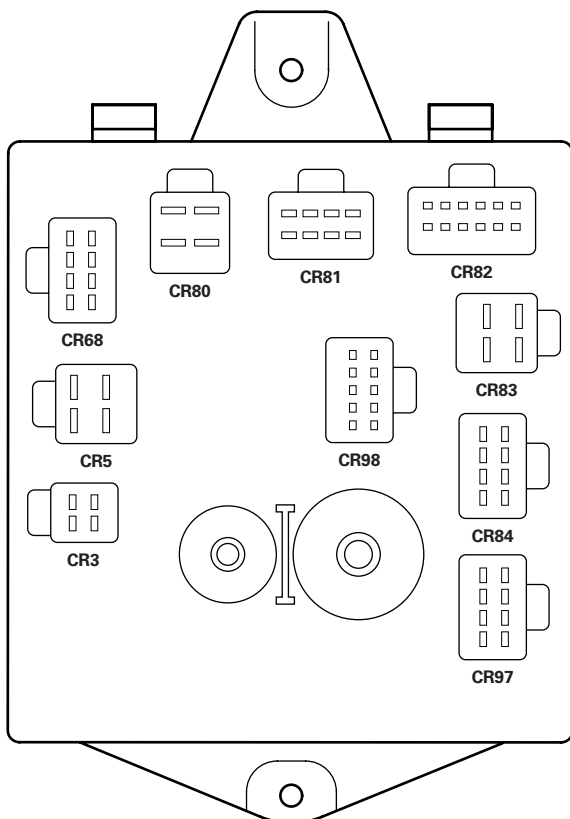
**REAR POWER DISTRIBUTION FUSE BOX**  
\* NON-SERVICEABLE PCB RELAY



FRONT POWER DISTRIBUTION FUSE BOX



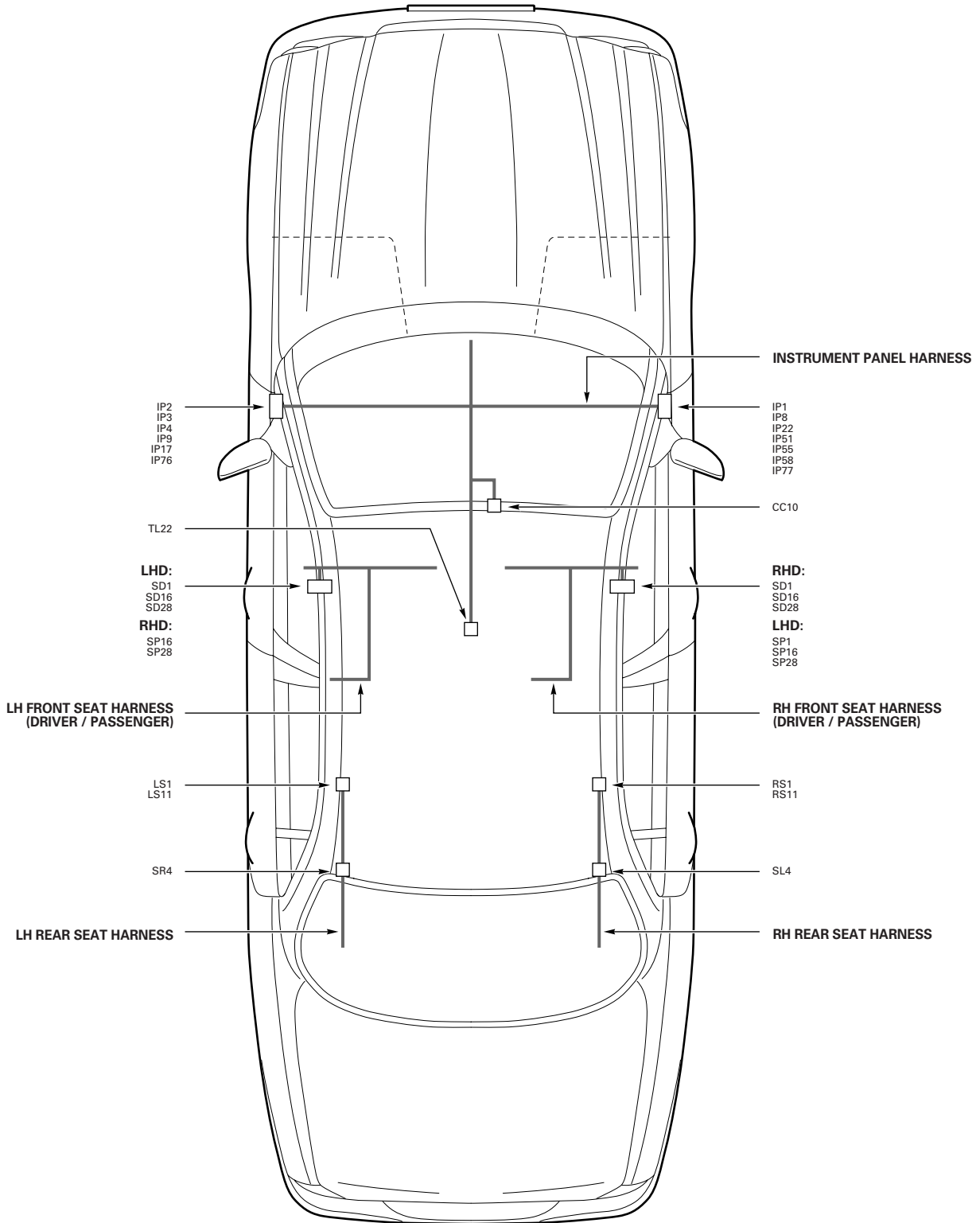
PASSENGER JUNCTION FUSE BOX



REAR POWER DISTRIBUTION FUSE BOX



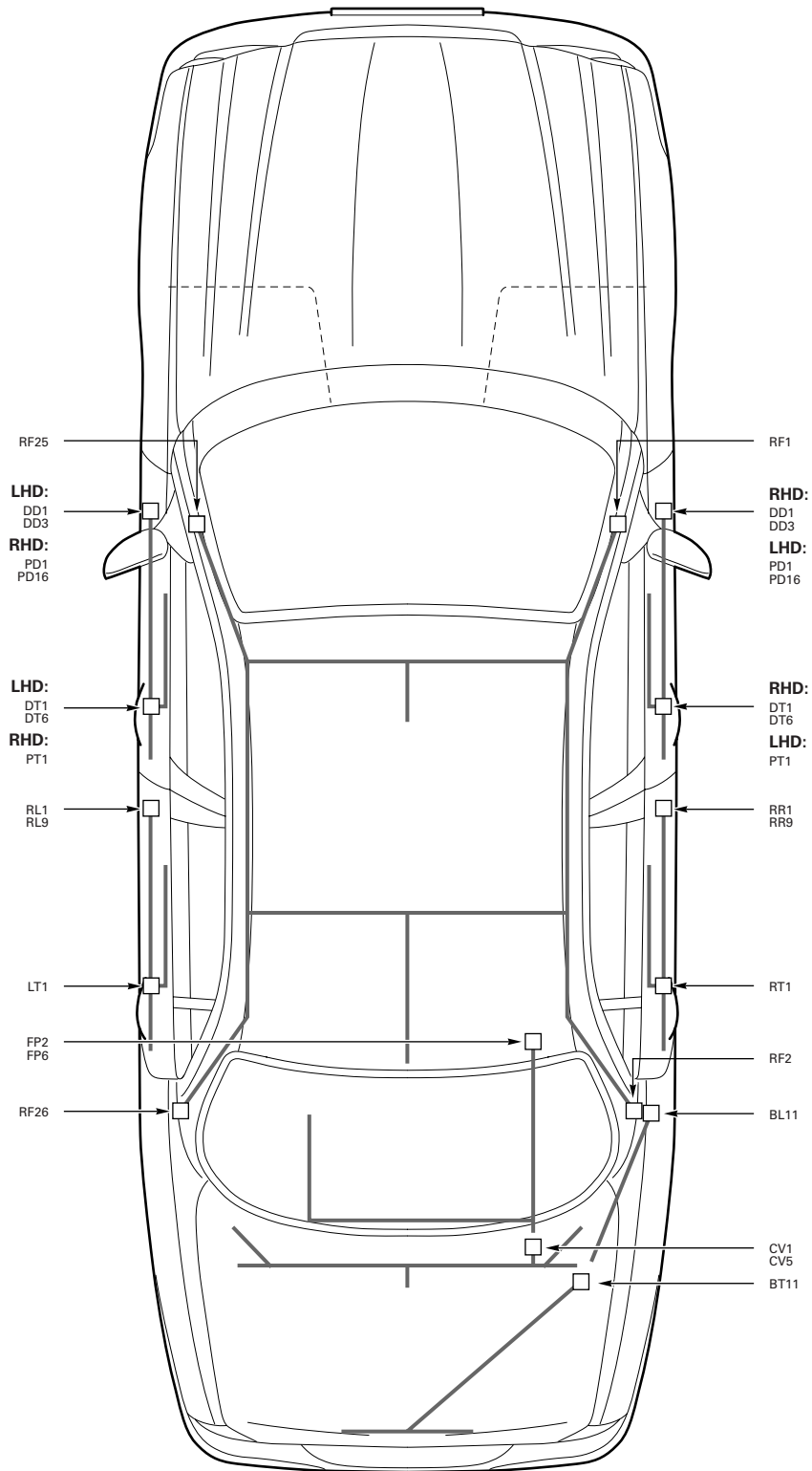
Instrument Panel and Seat Harnesses





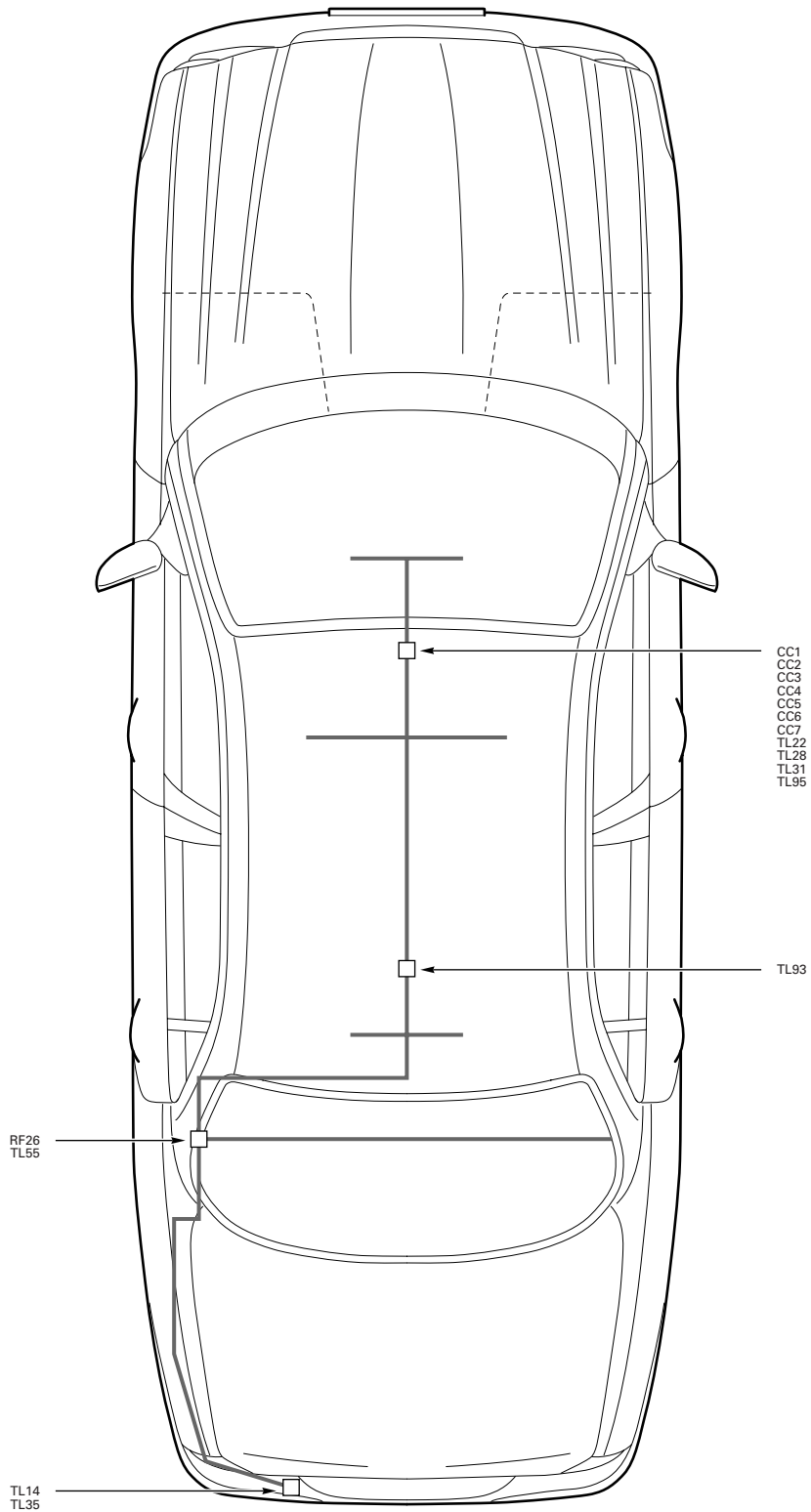


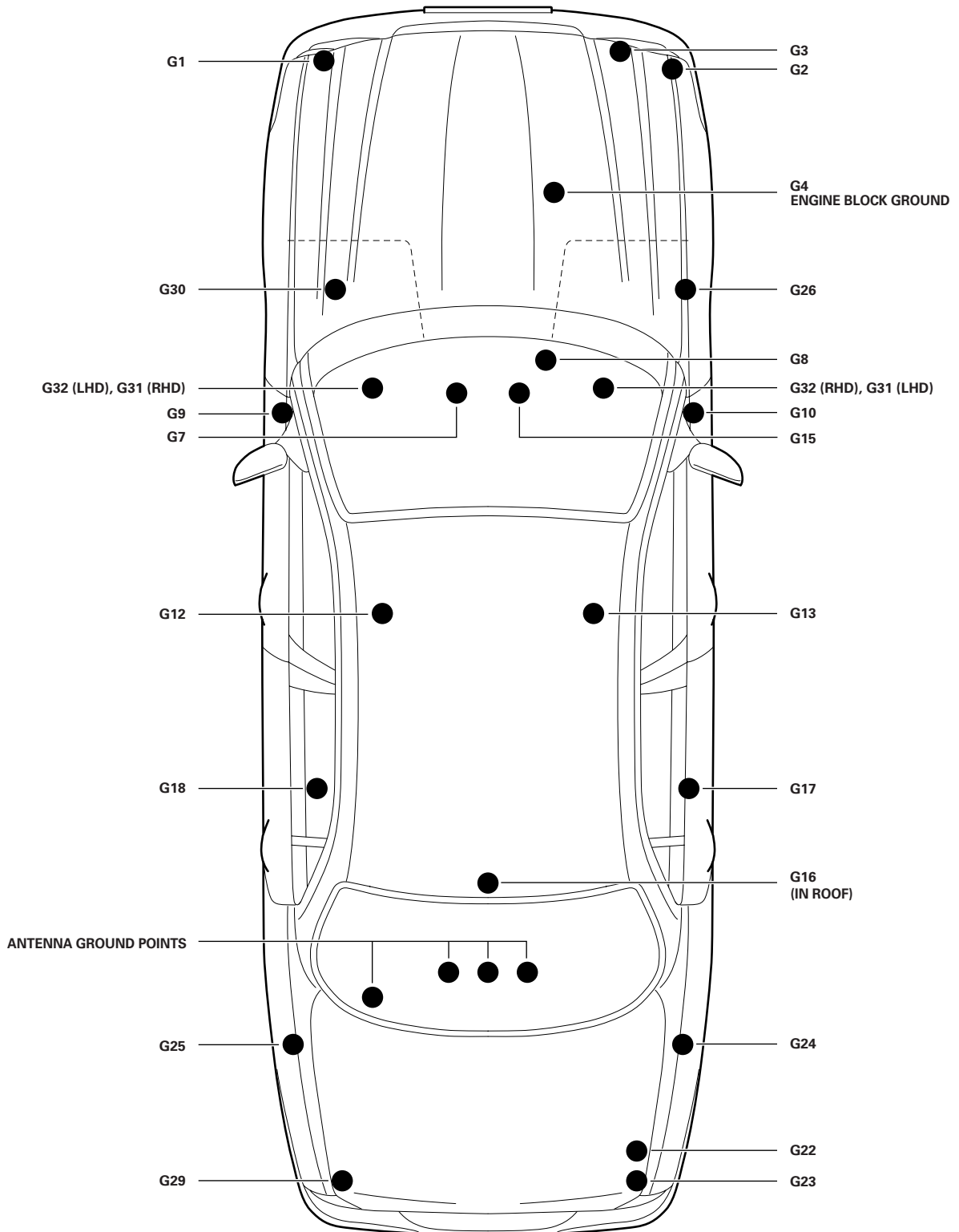
Small Harnesses





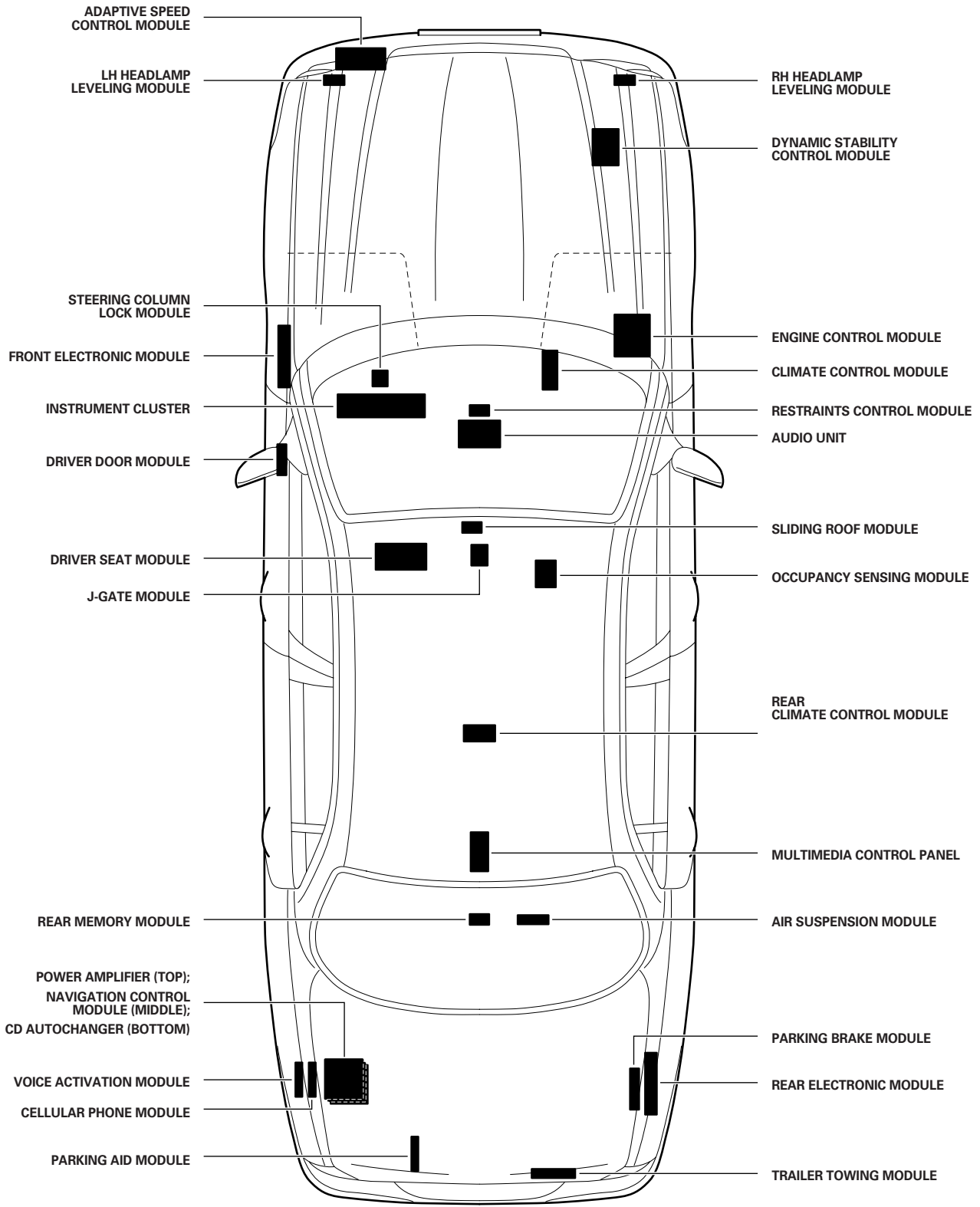
Telematics Harness





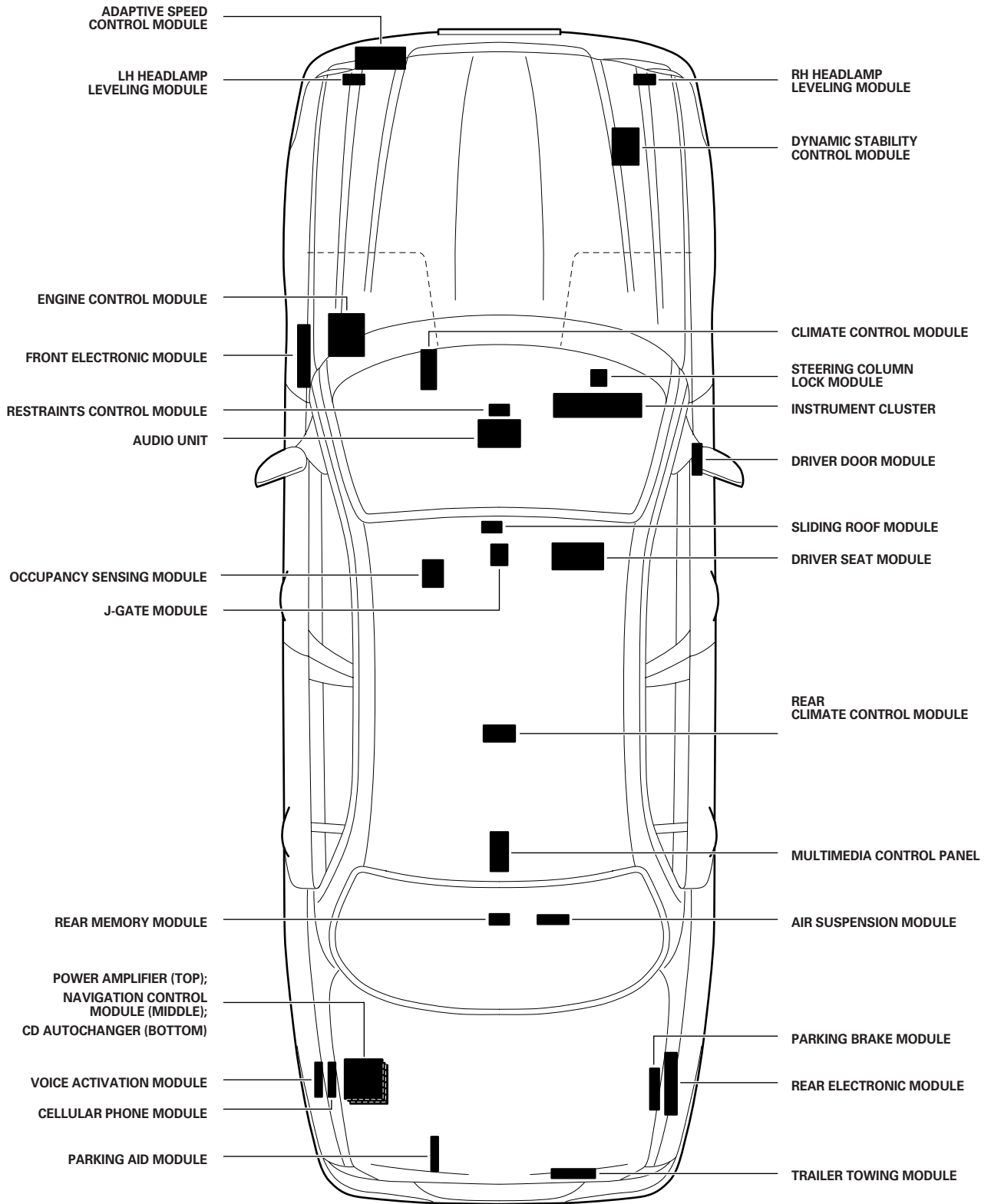


LHD

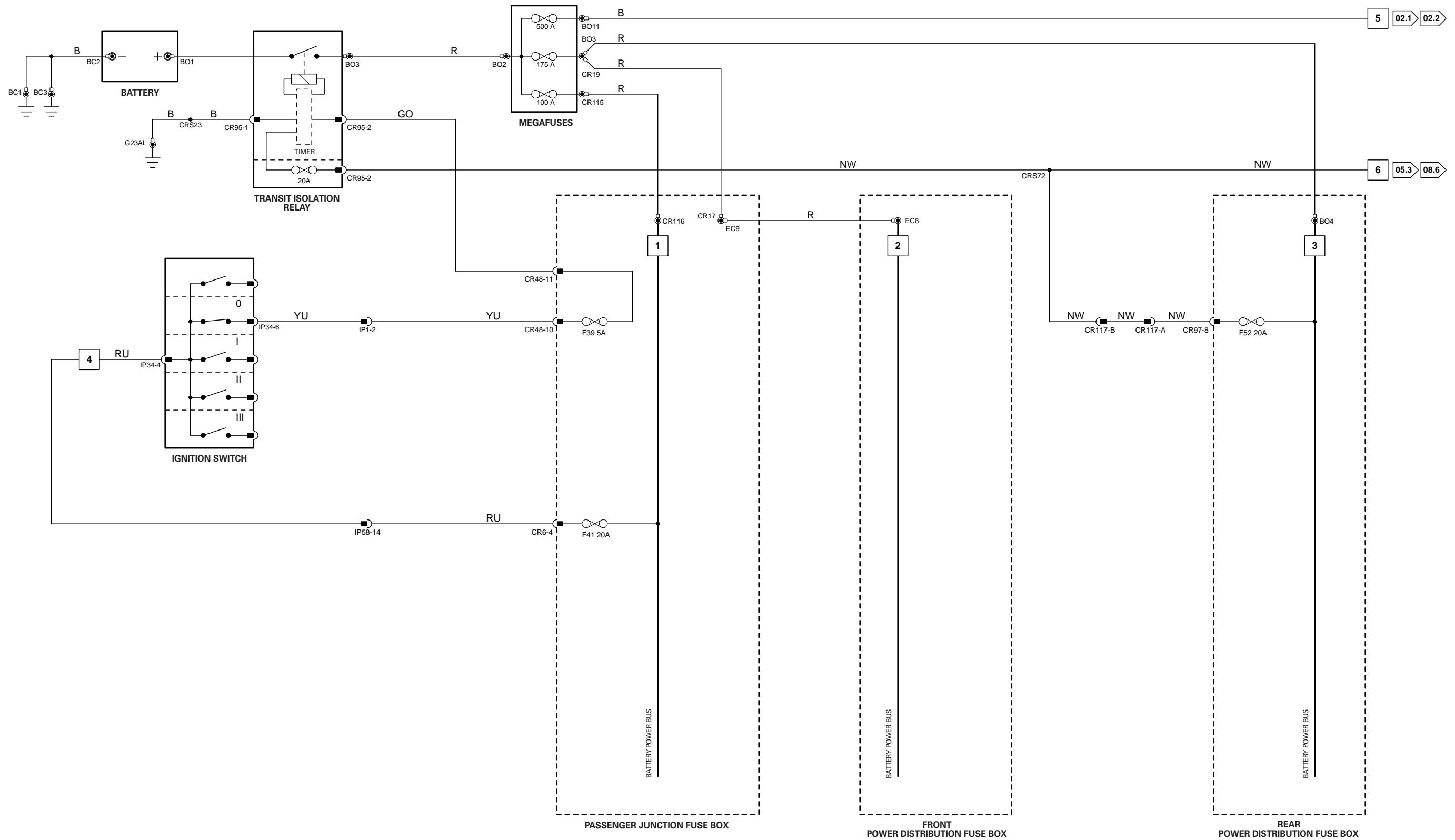




# RHD

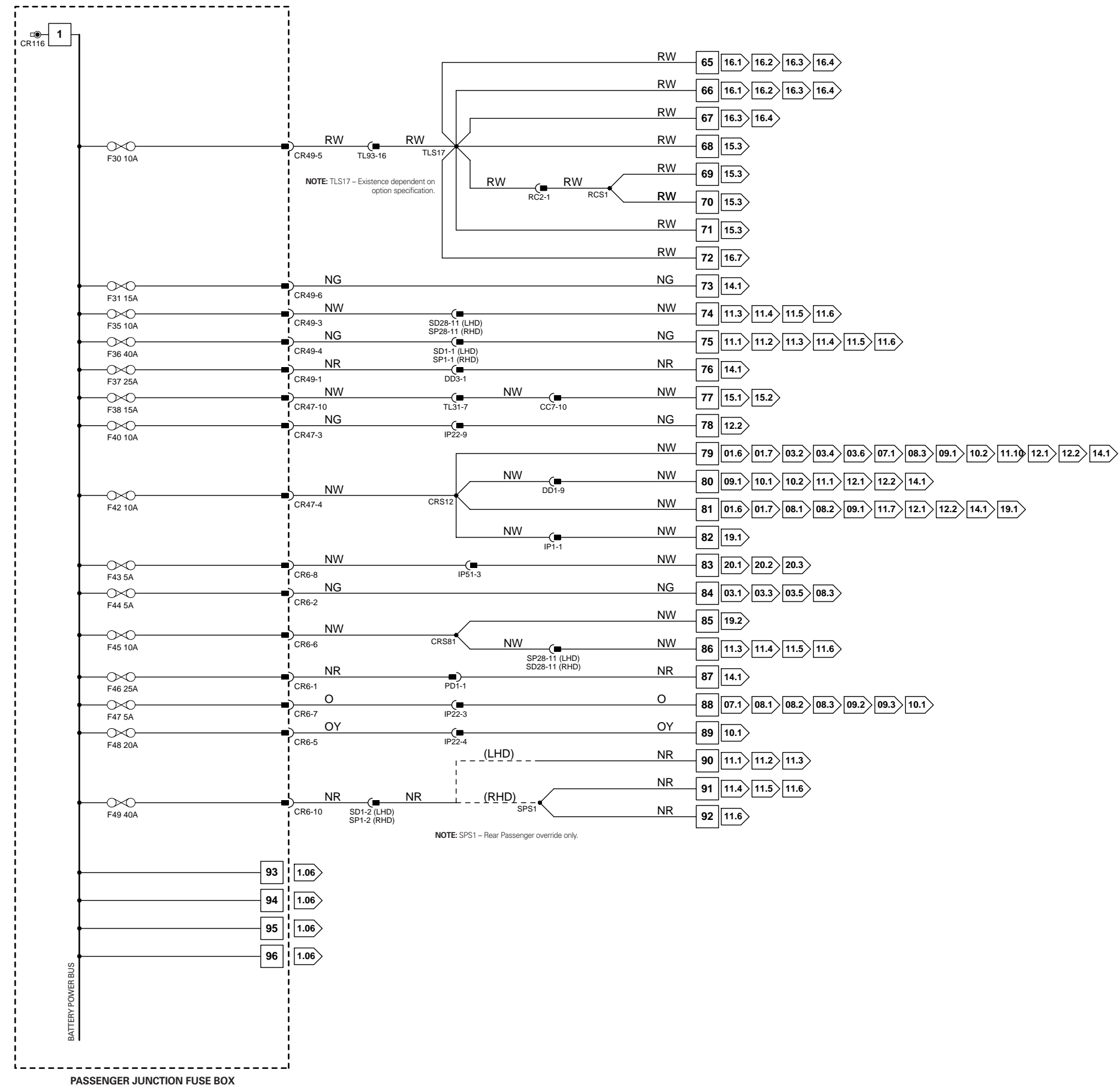


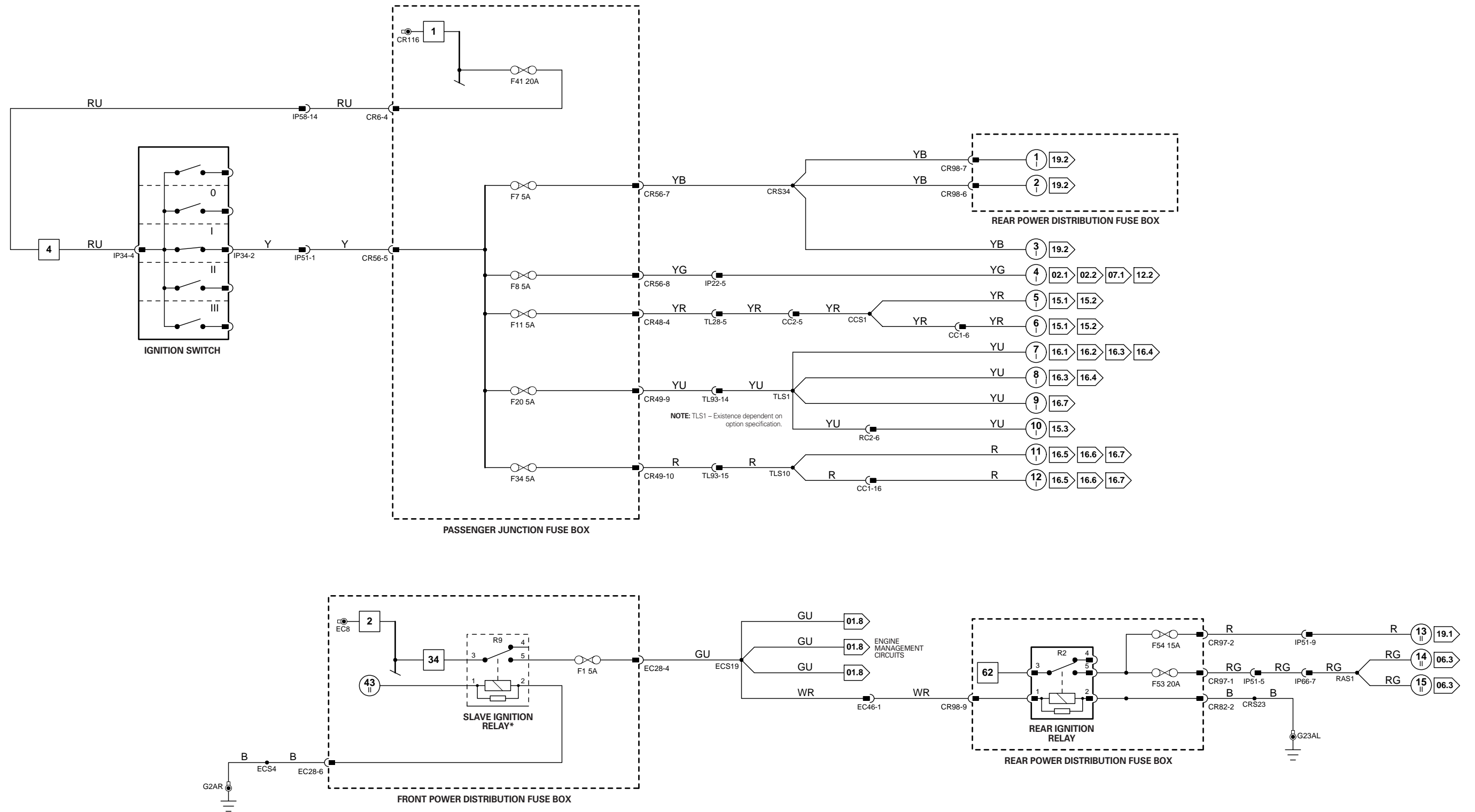










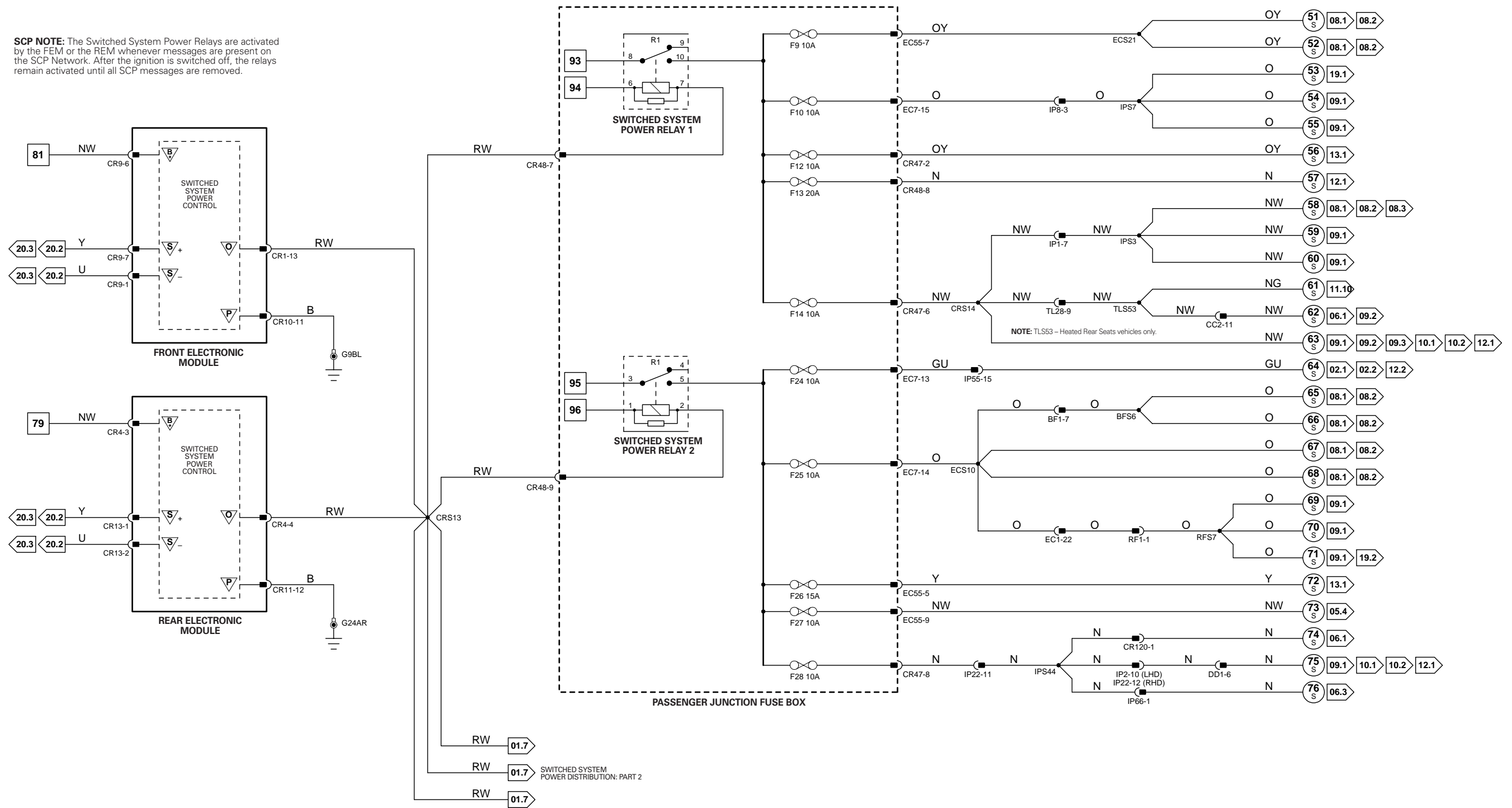


\*NOTE: Refer to Fig. 01.8 for complete Slave Ignition Relay circuit details.

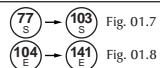
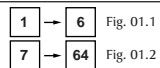




SCP NOTE: The Switched System Power Relays are activated by the FEM or the REM whenever messages are present on the SCP Network. After the ignition is switched off, the relays remain activated until all SCP messages are removed.

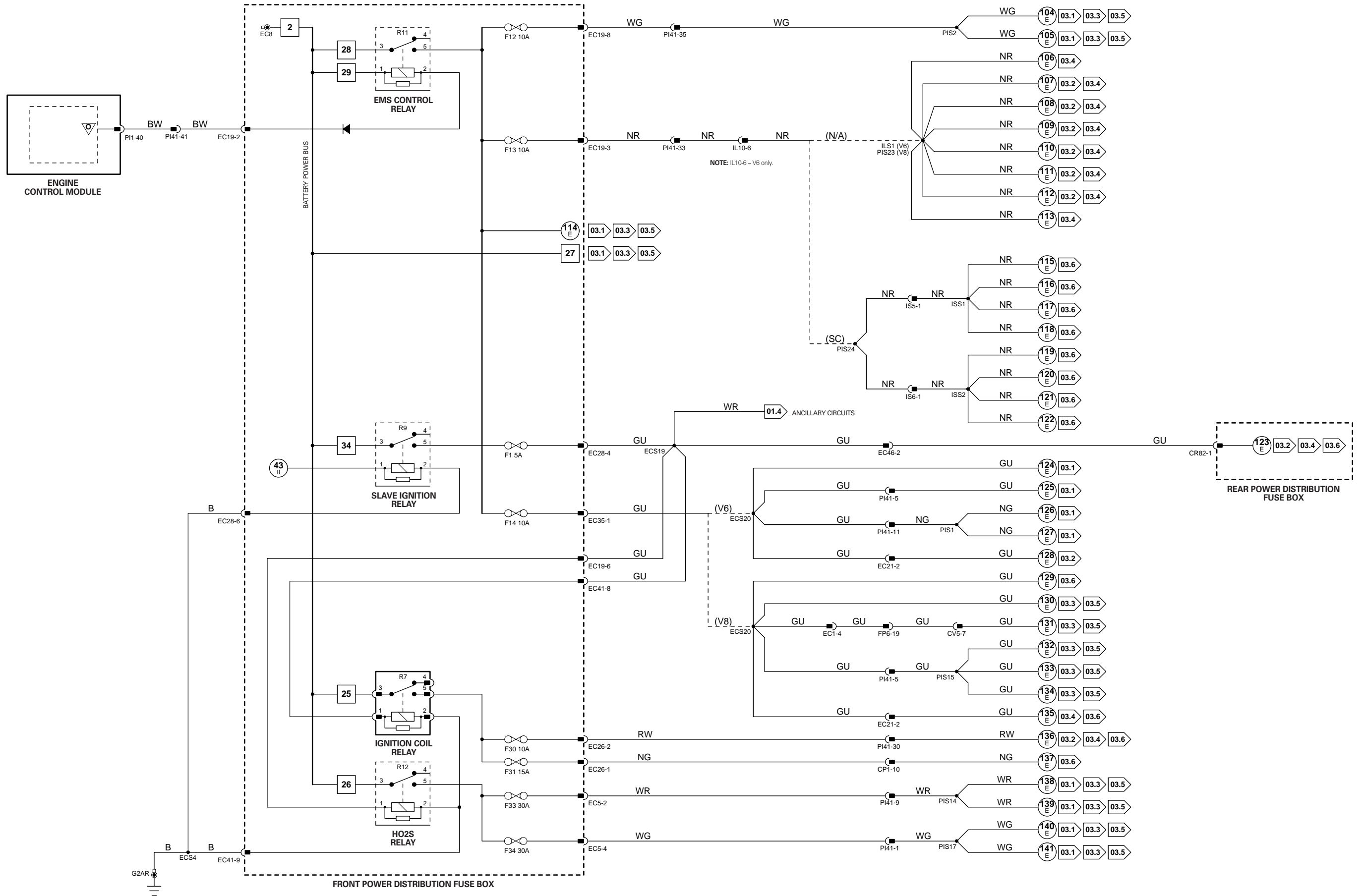


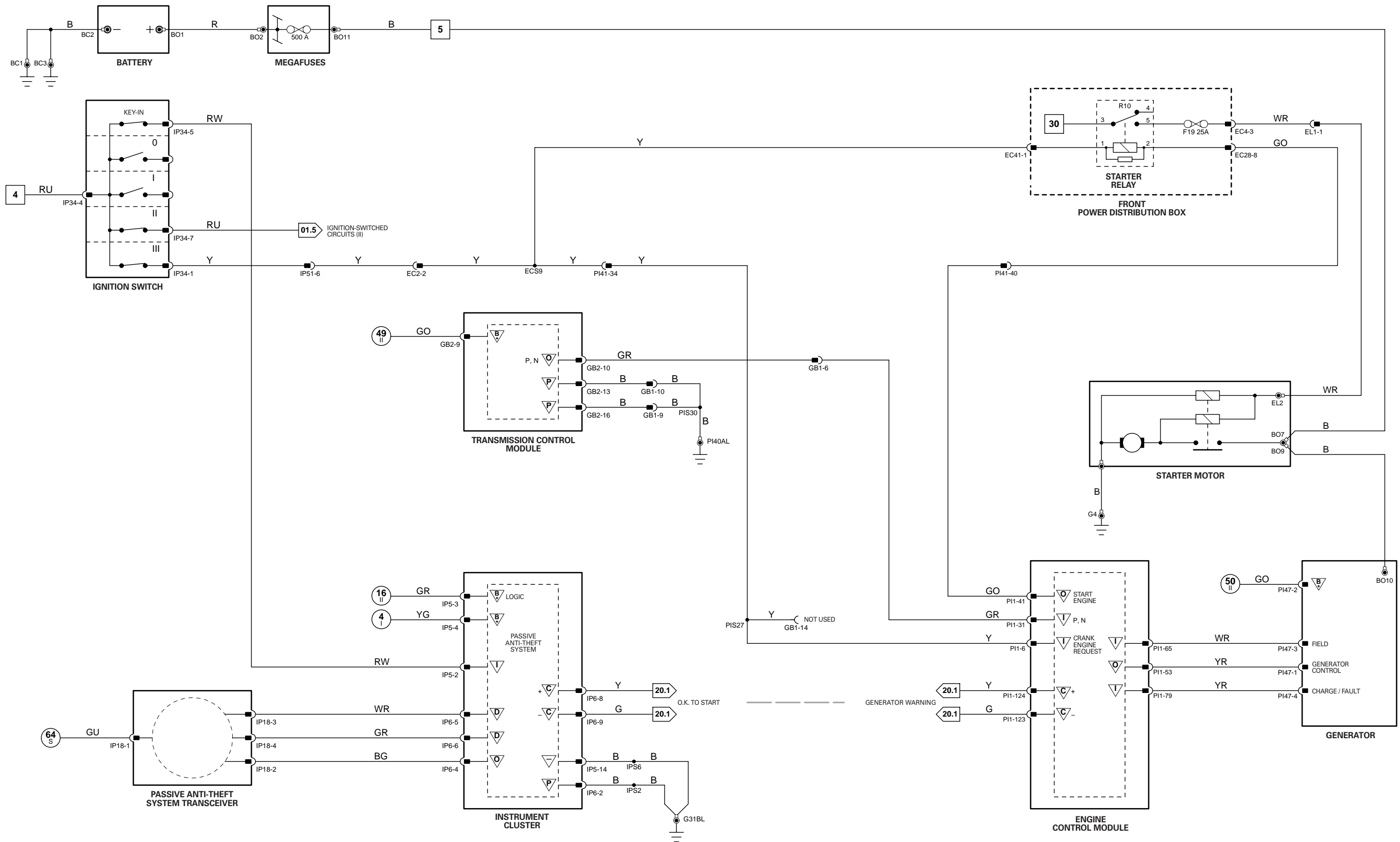
SWITCHED SYSTEM POWER DISTRIBUTION: PART 2

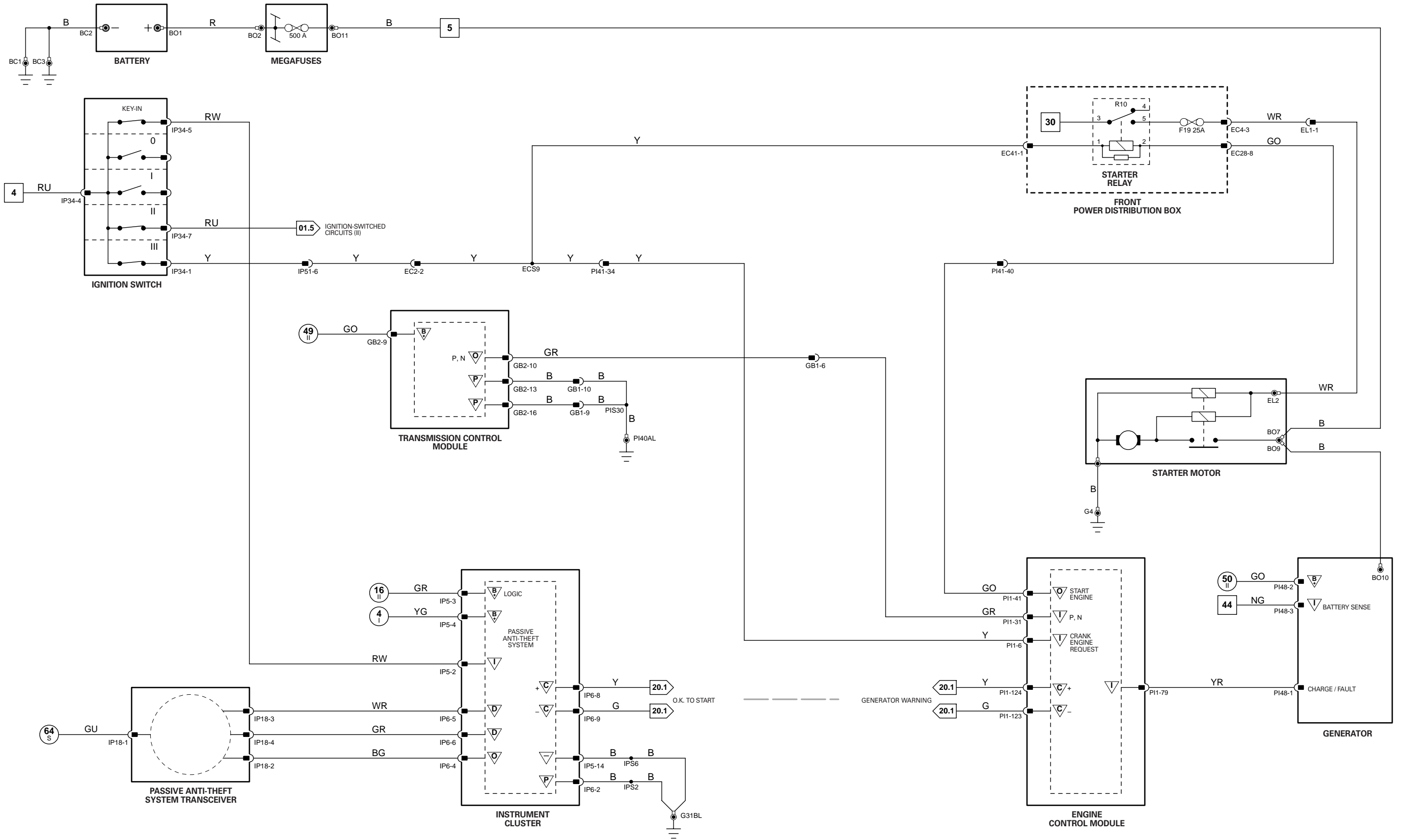


VARIANT: All Vehicles  
 VIN RANGE: All  
 DATE OF ISSUE: October 2002 (PROVISIONAL)









1 → 6 Fig. 01.1  
7 → 64 Fig. 01.2

65 → 96 Fig. 01.3  
1 → 15 Fig. 01.4

16 → 50 Fig. 01.5  
51 → 76 Fig. 01.6

77 → 103 Fig. 01.7  
104 → 141 Fig. 01.8

▽ Input  
▽ Output

⚡ Battery Voltage  
⚡ Power Ground

▽ Sensor/Signal Supply V  
▽ Sensor/Signal Ground

⚡ ACP  
⚡ SCP

▽ CAN  
▽ Serial and Encoded Data

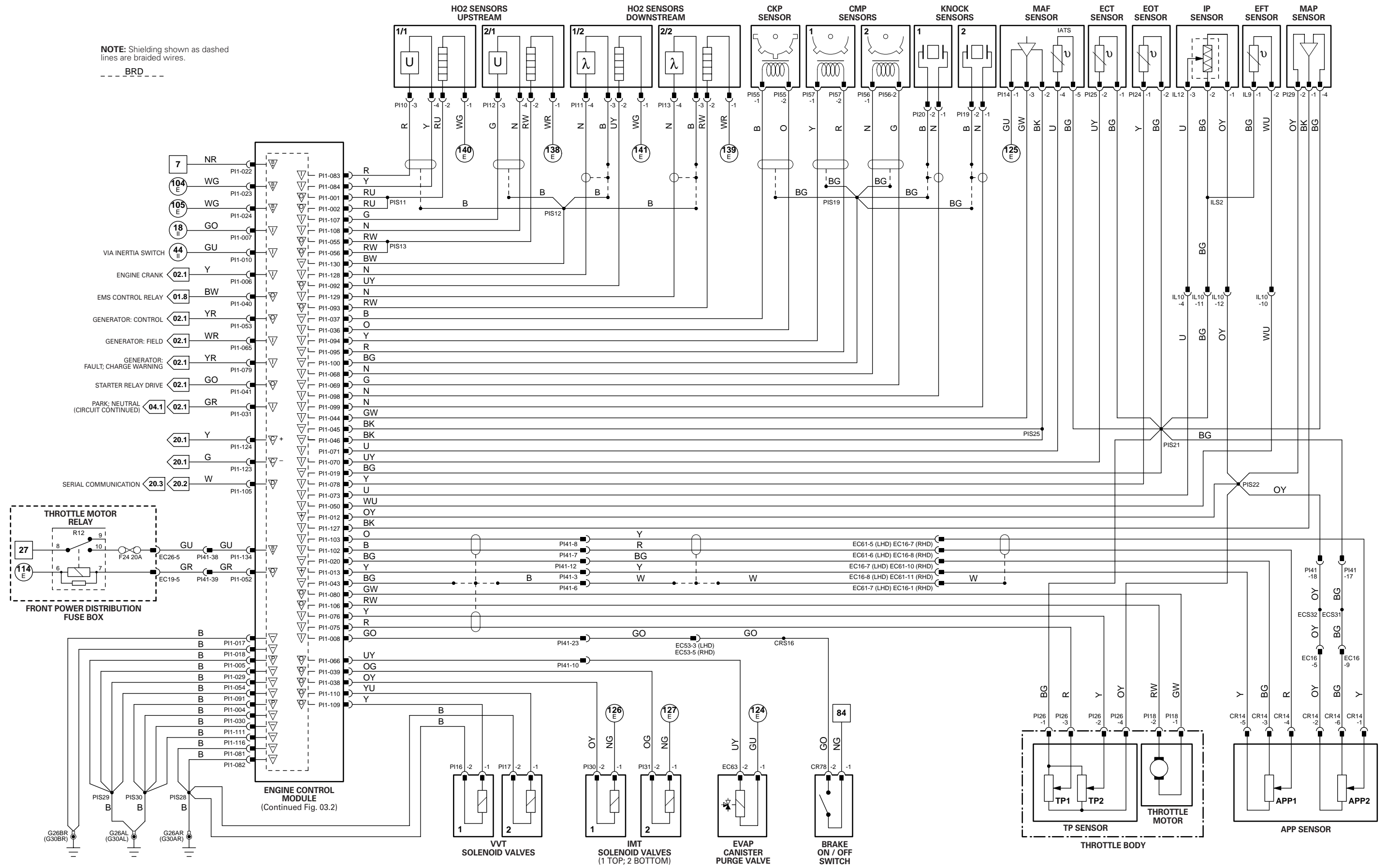
VARIANT: V8 Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)





NOTE: Shielding shown as dashed lines are braided wires.

--- BRD ---



1 → 6 Fig. 01.1  
7 → 64 Fig. 01.2

65 → 96 Fig. 01.3  
1 → 15 Fig. 01.4

16 → 50 Fig. 01.5  
51 → 76 Fig. 01.6

77 → 103 Fig. 01.7  
104 → 141 Fig. 01.8

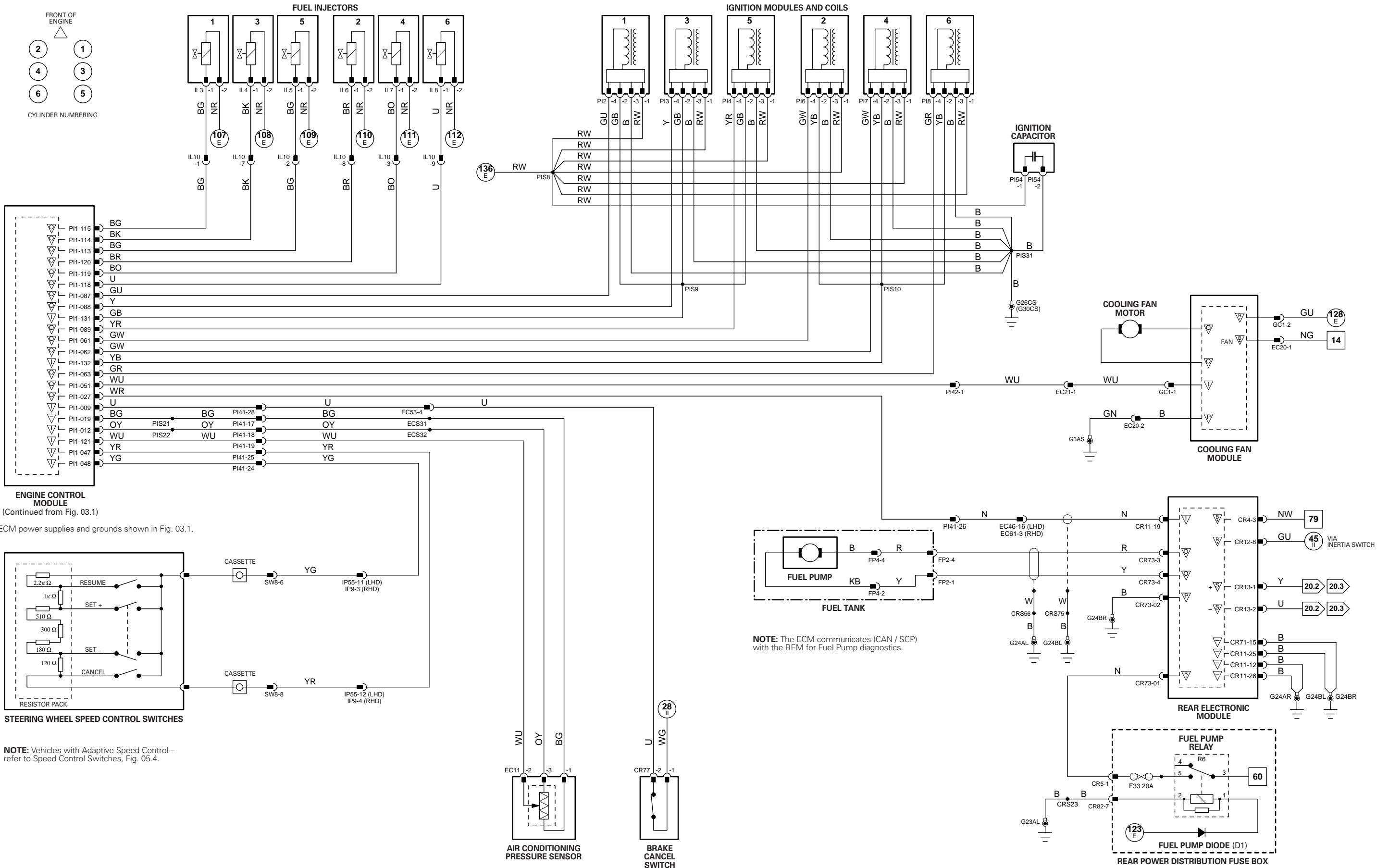
▽ Input  
▽ Output

B Battery Voltage  
P Power Ground

▽ Sensor/Signal Supply V  
▽ Sensor/Signal Ground

△ ACP  
△ SCP  
△ CAN  
▽ Serial and Encoded Data

VARIANT: V6 Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)



1 → 6	Fig. 01.1	65 → 96	Fig. 01.3	16 → 50	Fig. 01.5	77 → 103	Fig. 01.7
7 → 64	Fig. 01.2	1 → 15	Fig. 01.4	51 → 76	Fig. 01.6	104 → 141	Fig. 01.8

▽ Input	⊖ Battery Voltage	▽ Sensor/Signal Supply V	▽ ACP	▽ SCP
▽ Output	⊖ Power Ground	▽ Sensor/Signal Ground	▽ CAN	▽ Serial and Encoded Data

VARIANT: V6 Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)

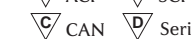
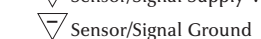
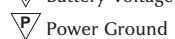
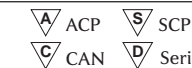
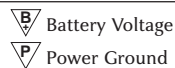
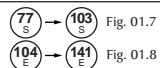
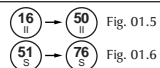
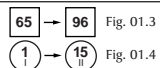
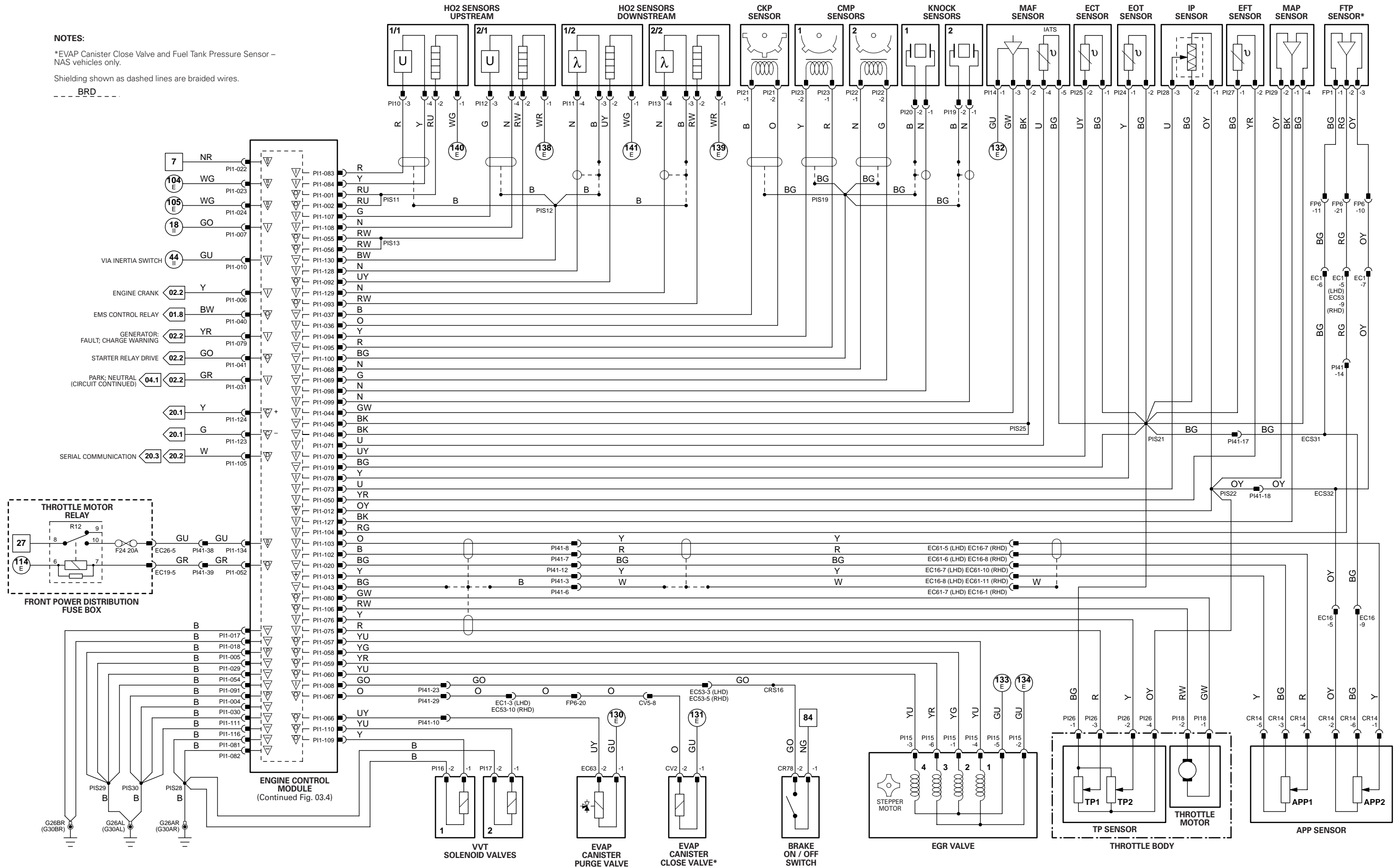


NOTES:

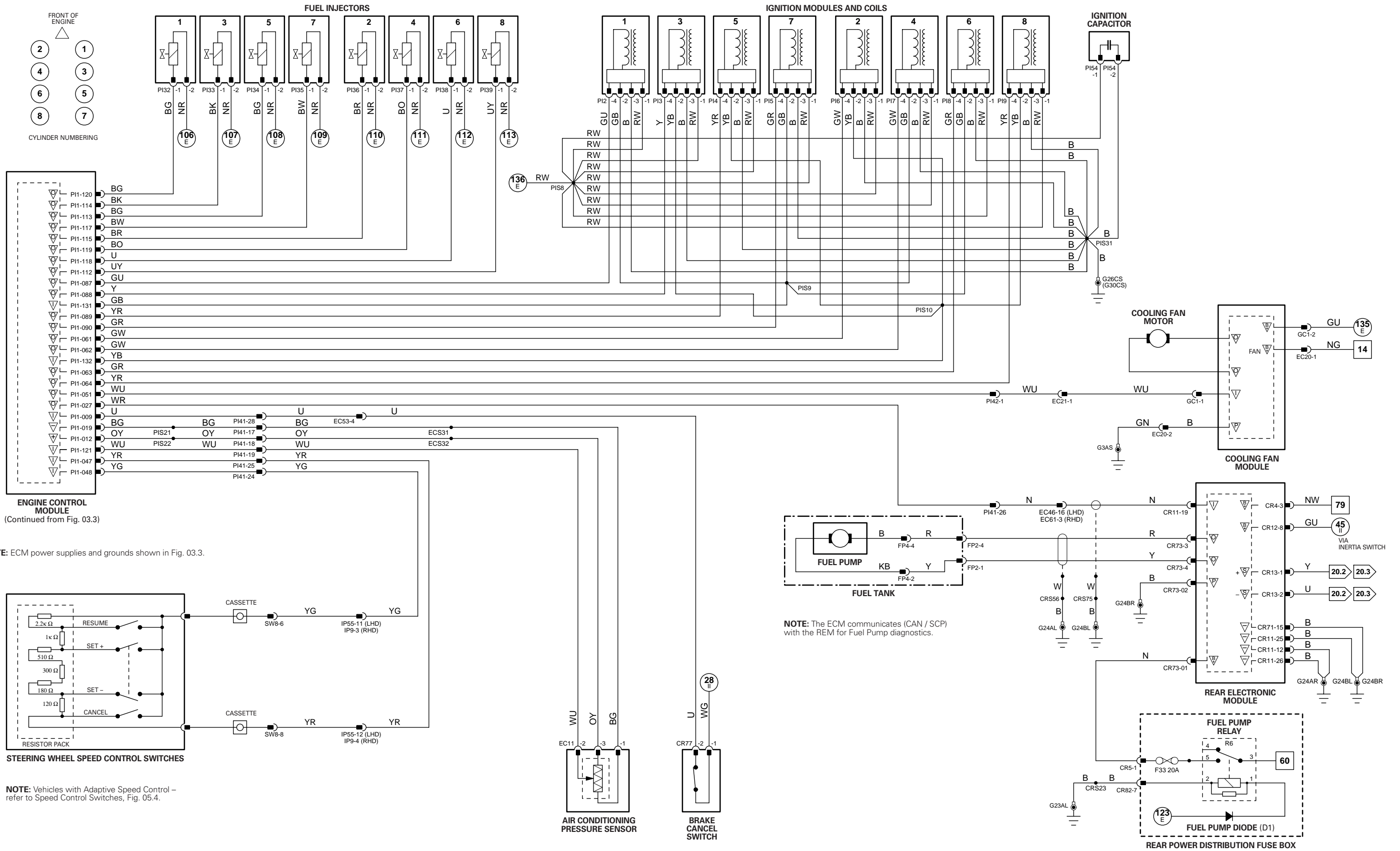
\*EVAP Canister Close Valve and Fuel Tank Pressure Sensor - NAS vehicles only.

Shielding shown as dashed lines are braided wires.

--- BRD ---



VARIANT: V8 N/A Vehicles  
 VIN RANGE: All  
 DATE OF ISSUE: October 2002 (PROVISIONAL)



1 → 6 Fig. 01.1	65 → 96 Fig. 01.3	16 → 50 Fig. 01.5	77 → 103 Fig. 01.7
7 → 64 Fig. 01.2	1 → 15 Fig. 01.4	51 → 76 Fig. 01.6	104 → 141 Fig. 01.8

▽ Input	⊖ Battery Voltage	▽ Sensor/Signal Supply V	▽ ACP	▽ SCP
▽ Output	⊕ Power Ground	▽ Sensor/Signal Ground	▽ CAN	▽ Serial and Encoded Data

VARIANT: V8 N/A Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)

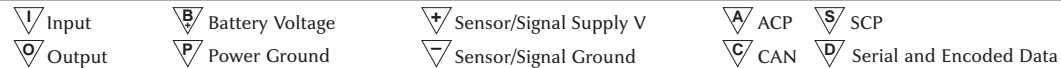
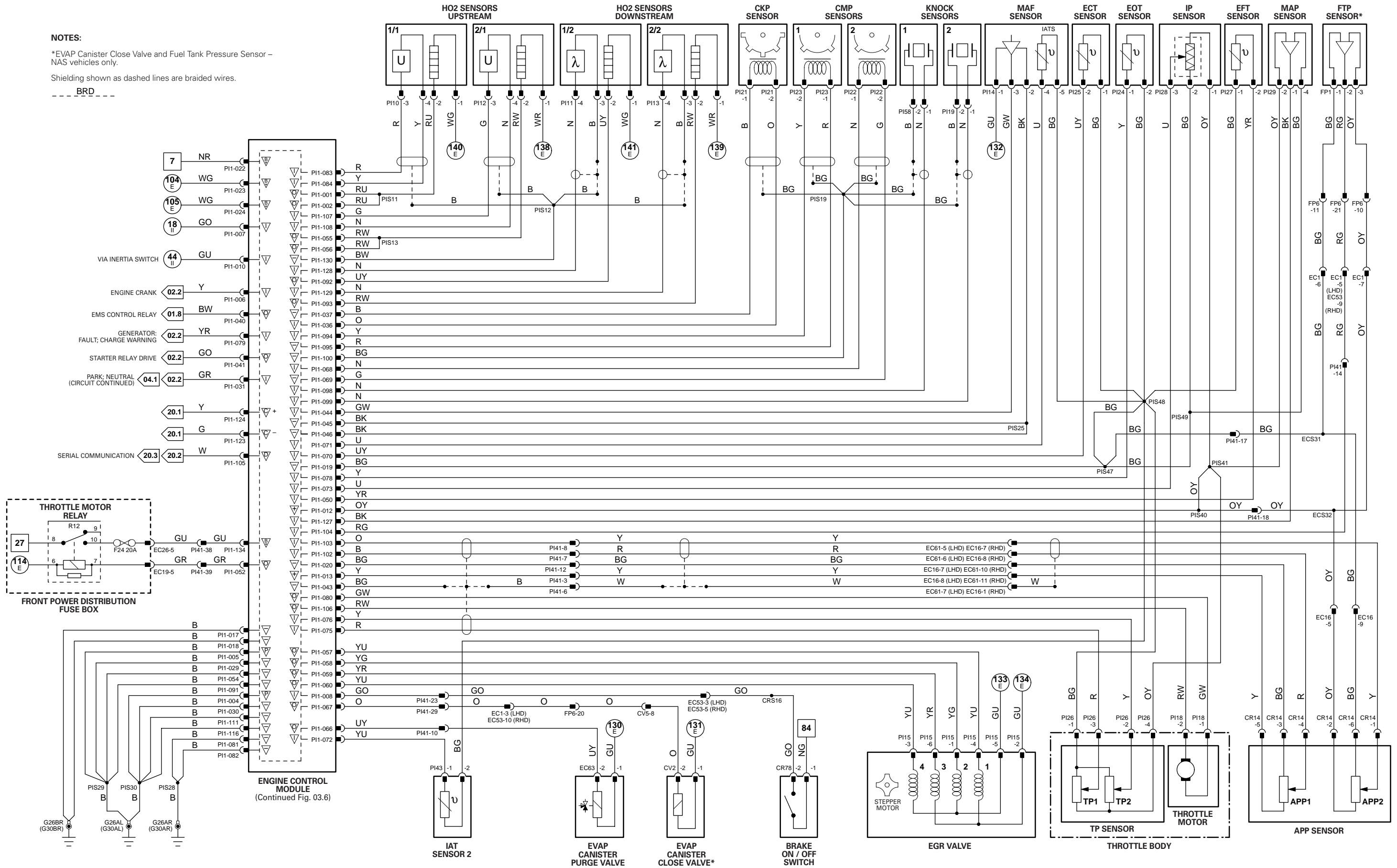


NOTES:

\*EVAP Canister Close Valve and Fuel Tank Pressure Sensor - NAS vehicles only.

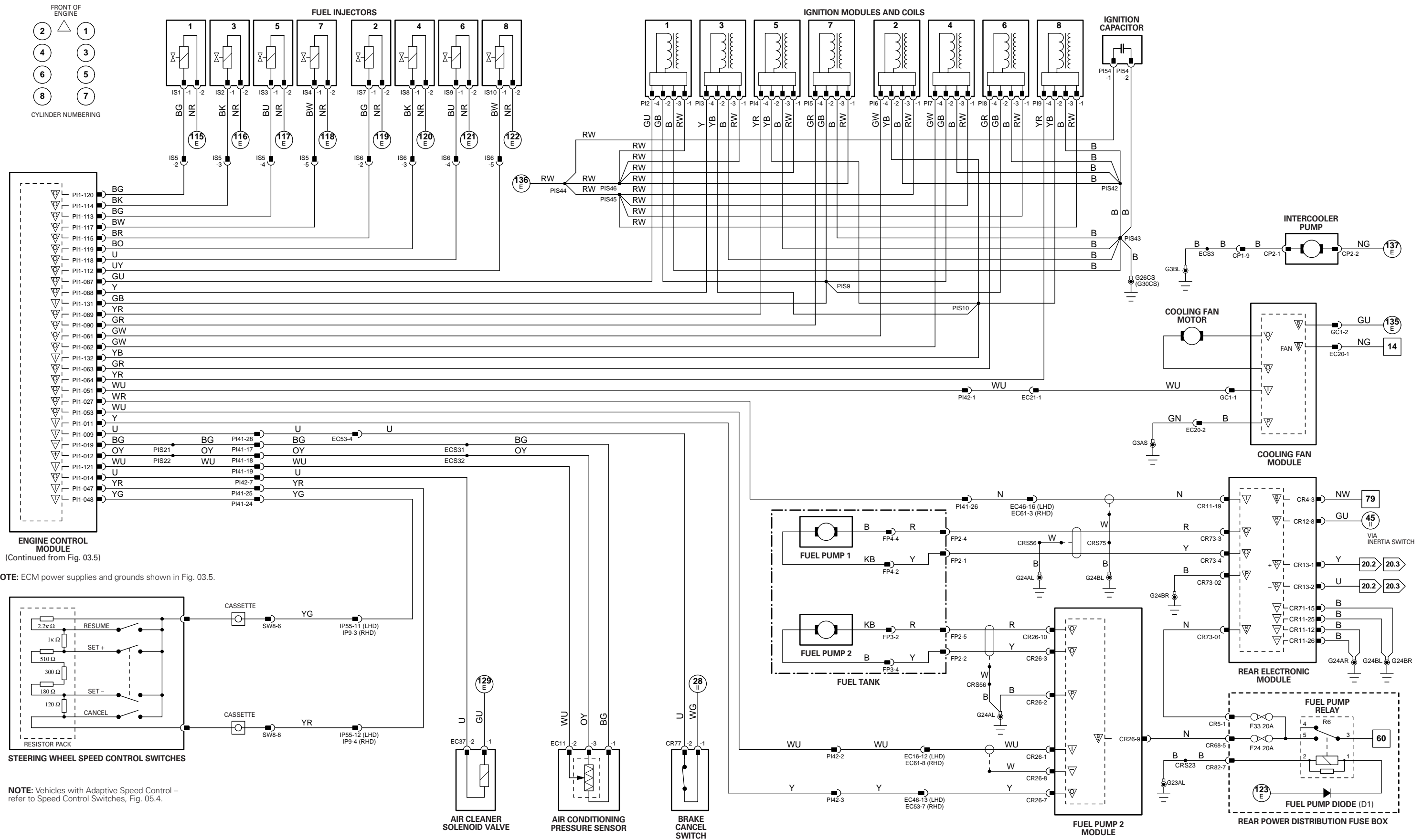
Shielding shown as dashed lines are braided wires.

--- BRD ---



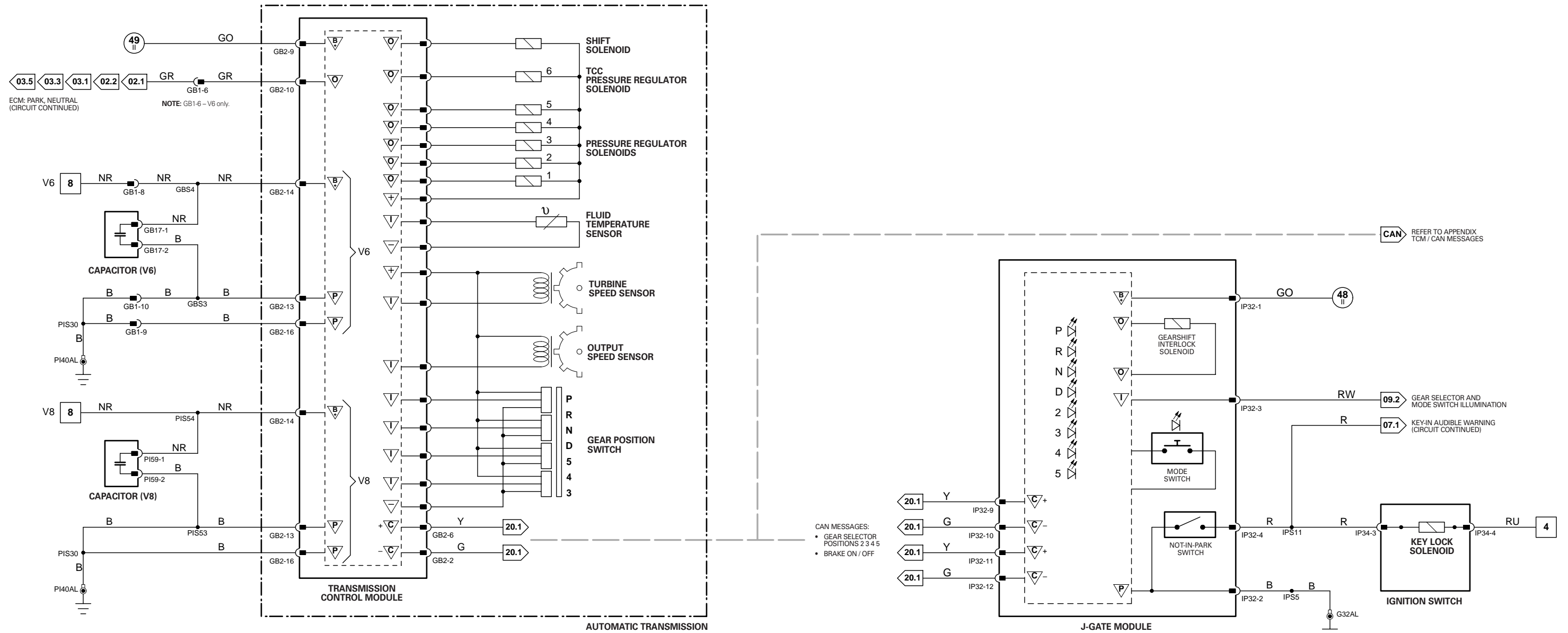
VARIANT: V8 SC Vehicles  
 VIN RANGE: All  
 DATE OF ISSUE: October 2002 (PROVISIONAL)

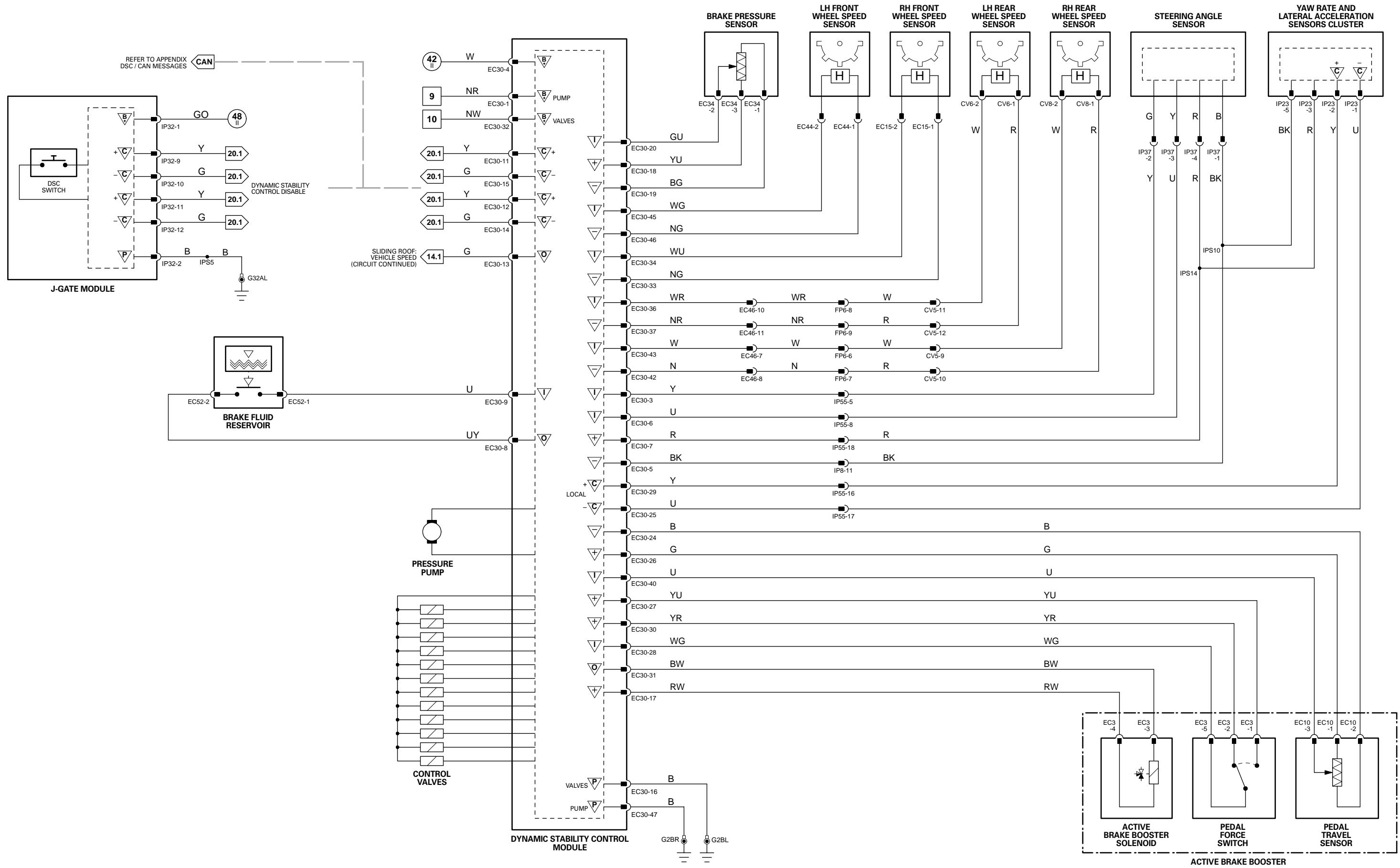




1 → 6 Fig. 01.1	65 → 96 Fig. 01.3	16 → 50 Fig. 01.5	77 → 103 Fig. 01.7	Input	B Battery Voltage	∇ Sensor/Signal Supply V	∇ ACP	∇ SCP
7 → 64 Fig. 01.2	1 → 15 Fig. 01.4	51 → 76 Fig. 01.6	104 → 141 Fig. 01.8	Output	P Power Ground	∇ Sensor/Signal Ground	∇ CAN	∇ Serial and Encoded Data

VARIANT: V8 SC Vehicles  
 VIN RANGE: All  
 DATE OF ISSUE: October 2002 (PROVISIONAL)





1 → 6 Fig. 01.1

65 → 96 Fig. 01.3

16 → 50 Fig. 01.5

77 → 103 Fig. 01.7

Input

B Battery Voltage

∇ Sensor/Signal Supply V

∇ ACP

∇ SCP

7 → 64 Fig. 01.2

1 → 15 Fig. 01.4

51 → 76 Fig. 01.6

104 → 141 Fig. 01.8

Output

P Power Ground

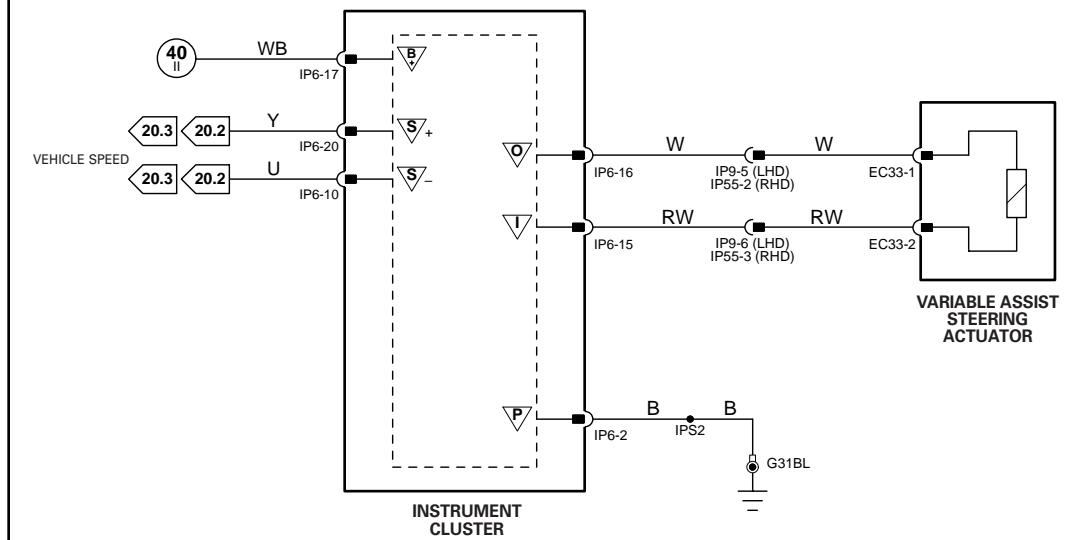
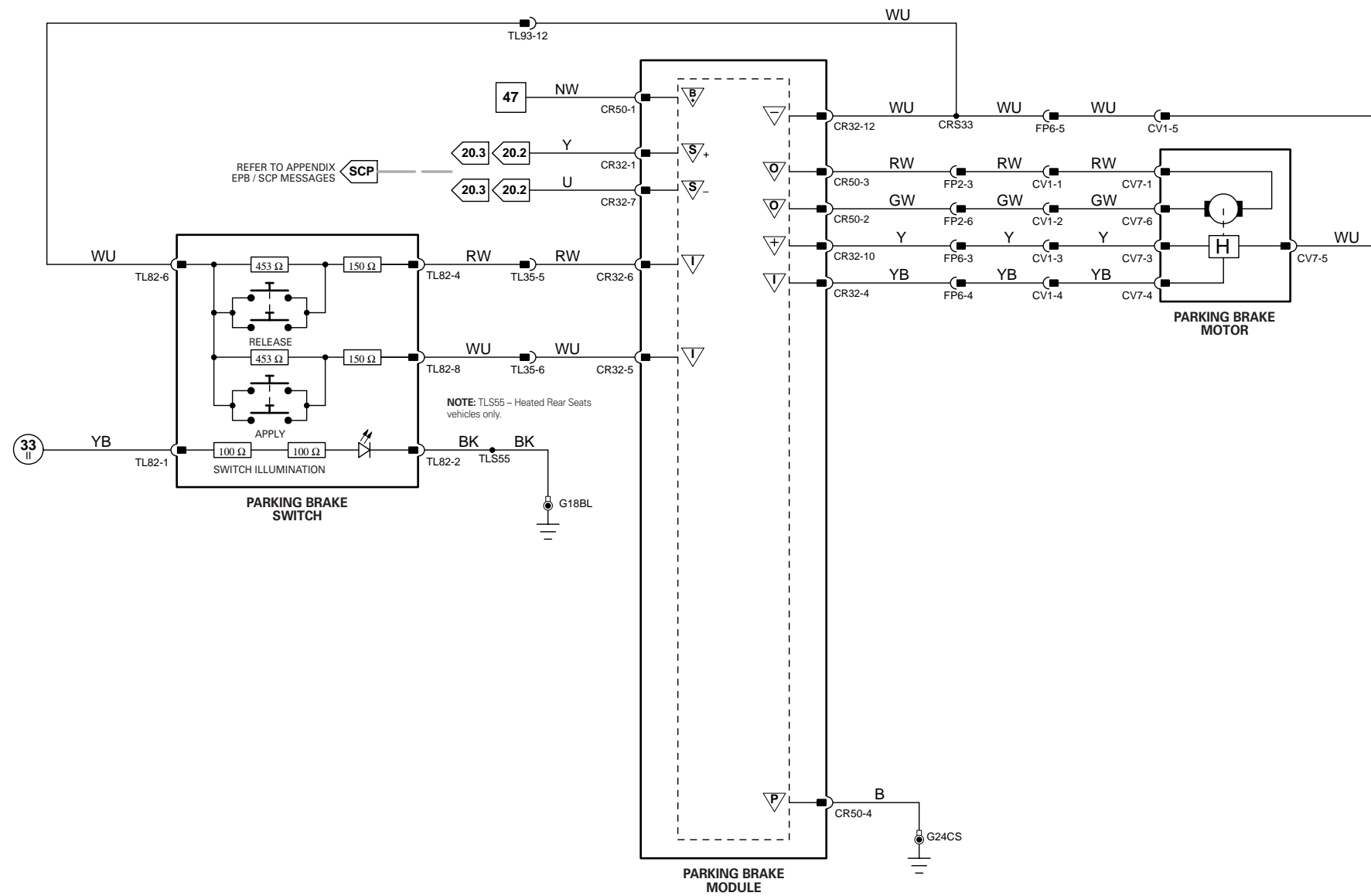
∇ Sensor/Signal Ground

∇ CAN

∇ Serial and Encoded Data

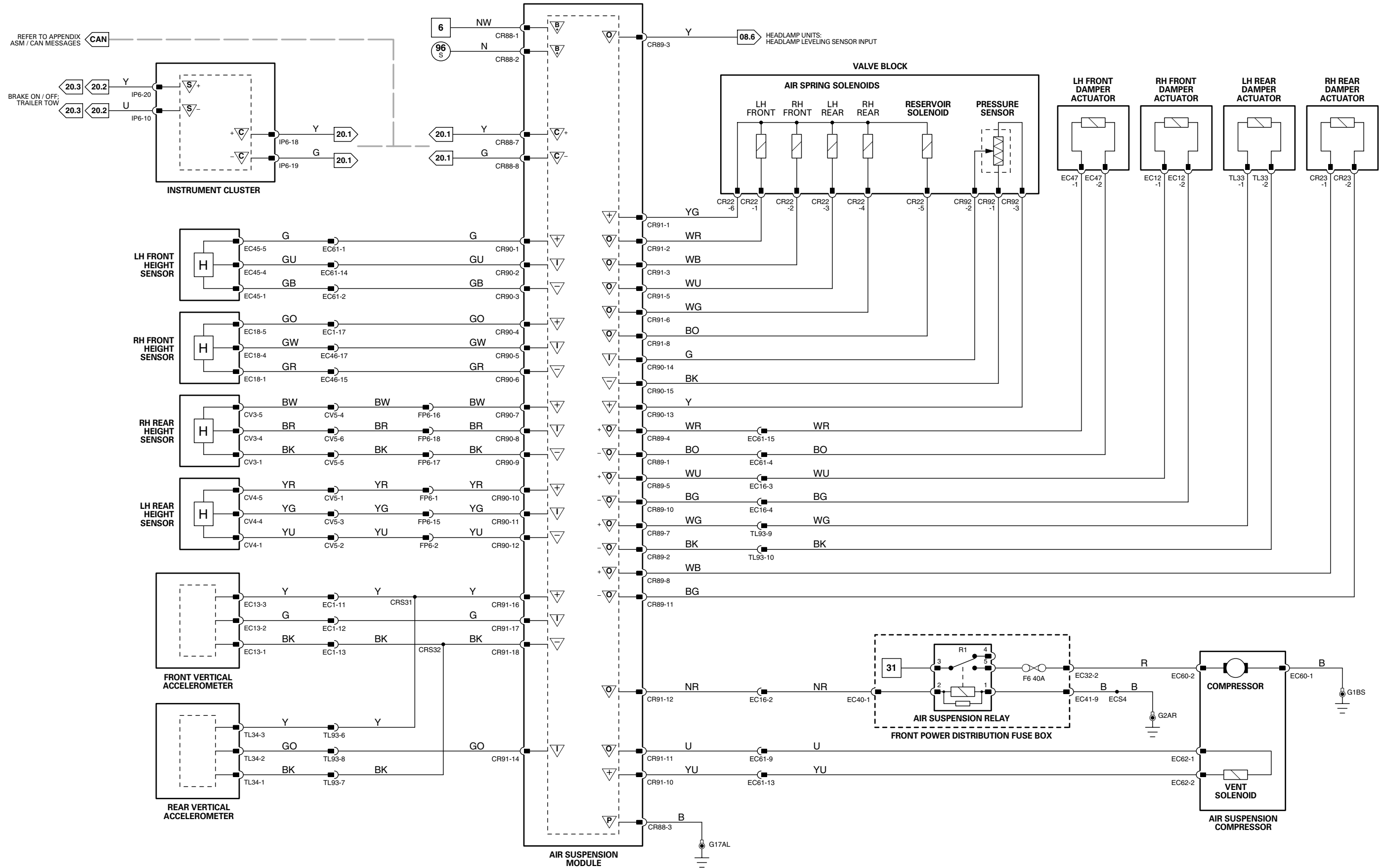
VARIANT: All Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)





ELECTRONIC PARKING BRAKE

VARIABLE ASSIST POWER STEERING



1 → 6 Fig. 01.1  
7 → 64 Fig. 01.2

65 → 96 Fig. 01.3  
1 → 15 Fig. 01.4

16 → 50 Fig. 01.5  
51 → 76 Fig. 01.6

77 → 103 Fig. 01.7  
104 → 141 Fig. 01.8

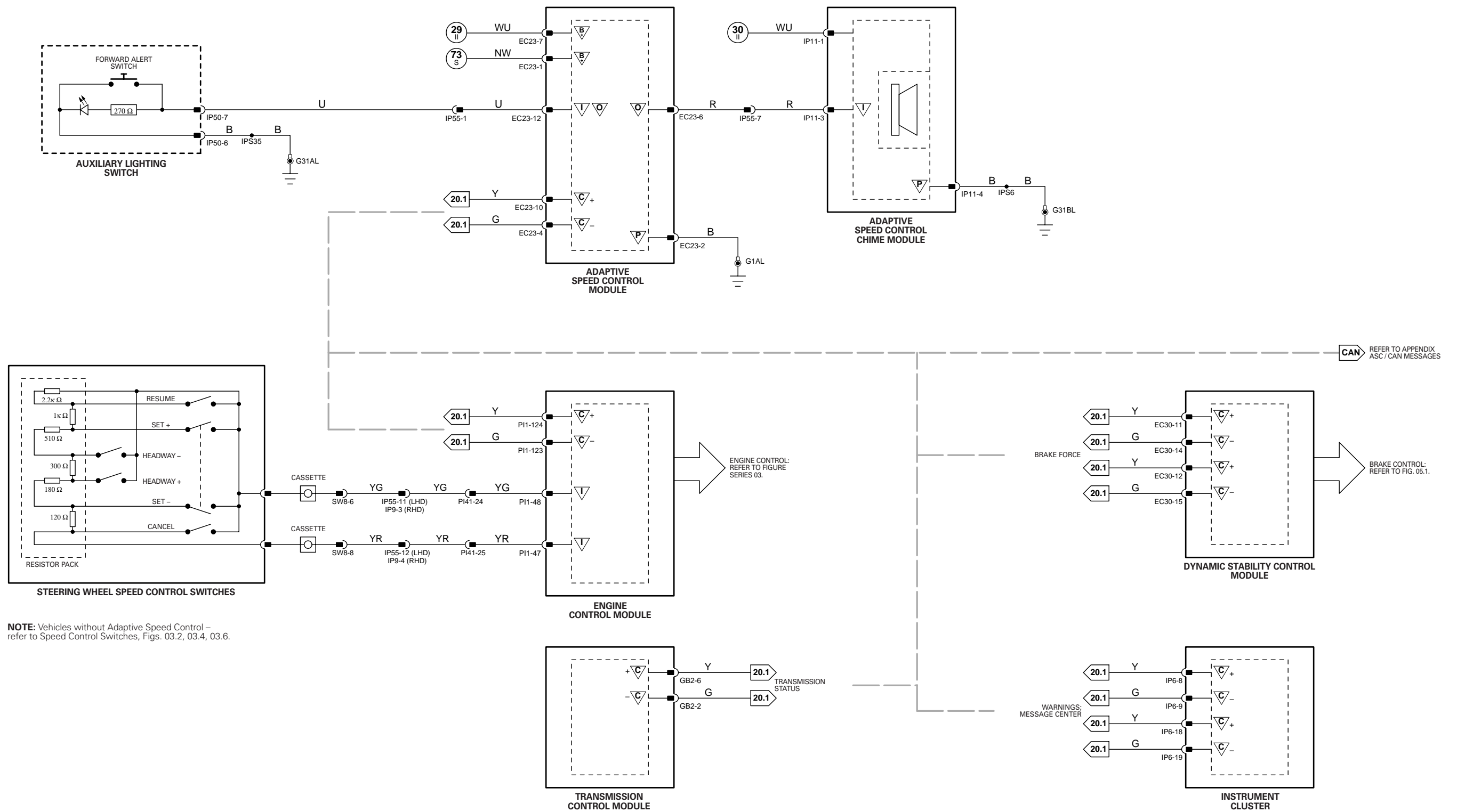
▽ Input  
▽ Output

B Battery Voltage  
P Power Ground

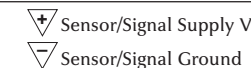
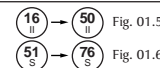
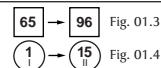
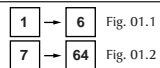
▽ Sensor/Signal Supply V  
▽ Sensor/Signal Ground

▽ ACP  
▽ CAN  
▽ SCP  
▽ Serial and Encoded Data

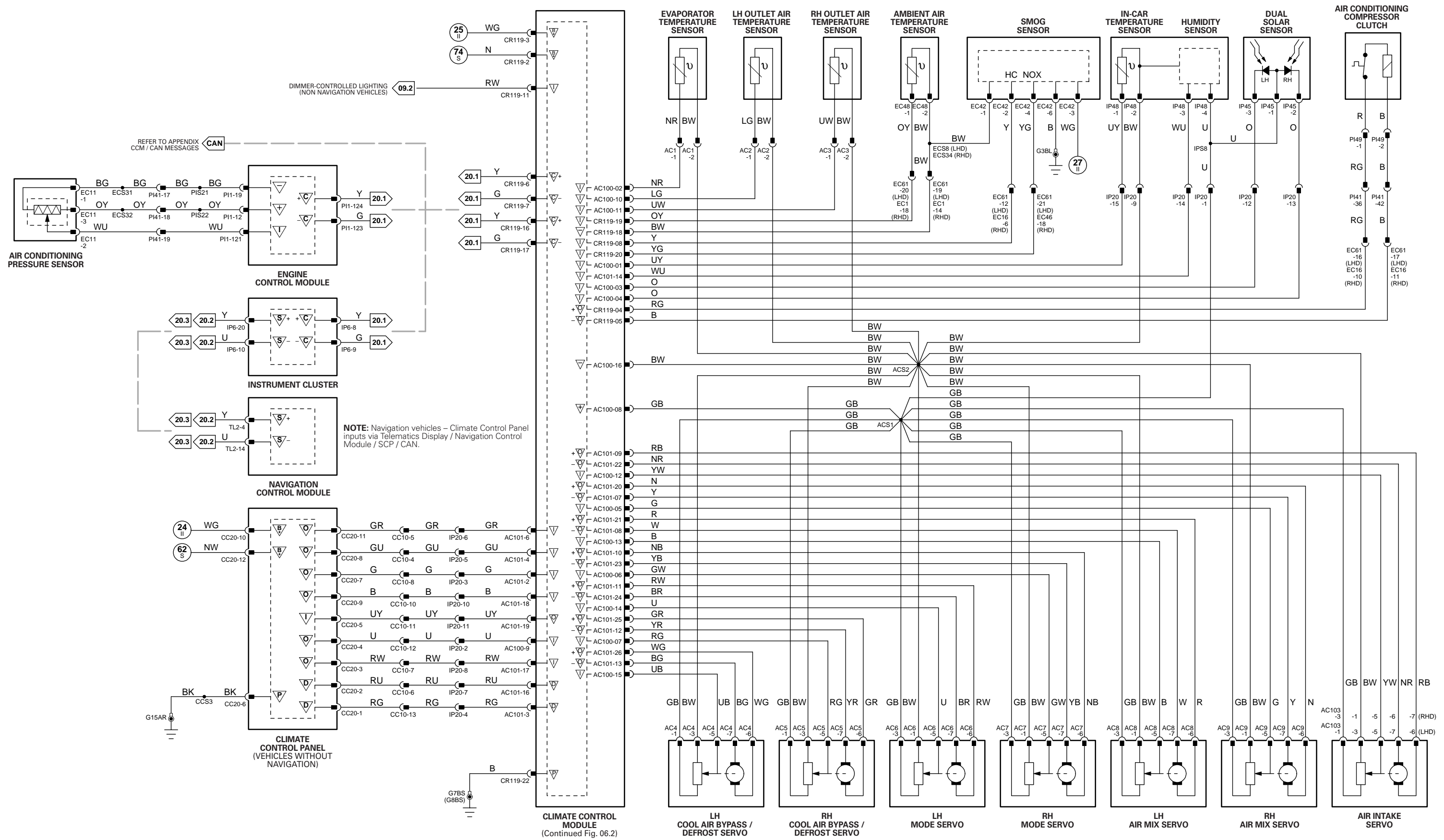
VARIANT: All Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)



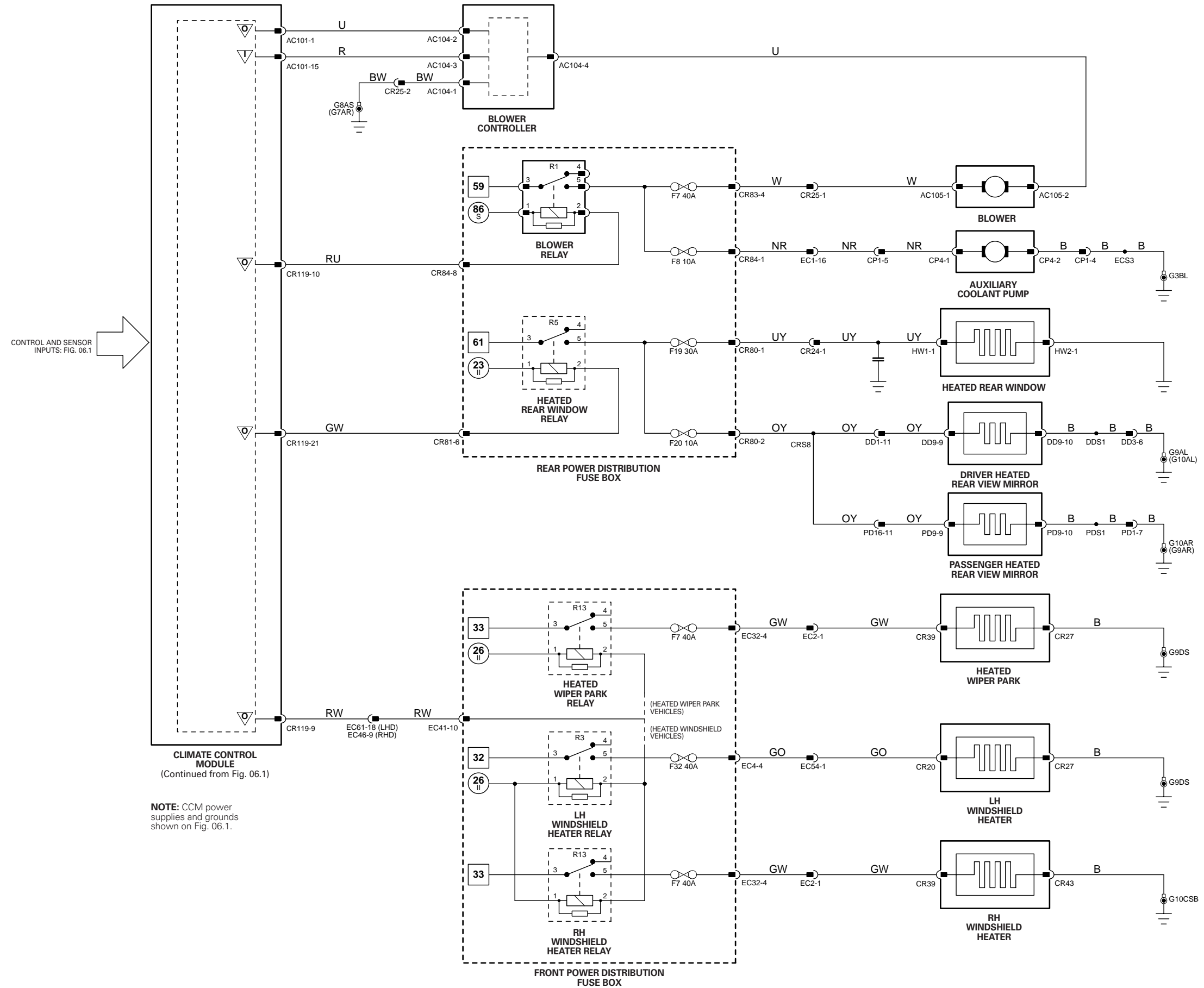
NOTE: Vehicles without Adaptive Speed Control – refer to Speed Control Switches, Figs. 03.2, 03.4, 03.6.



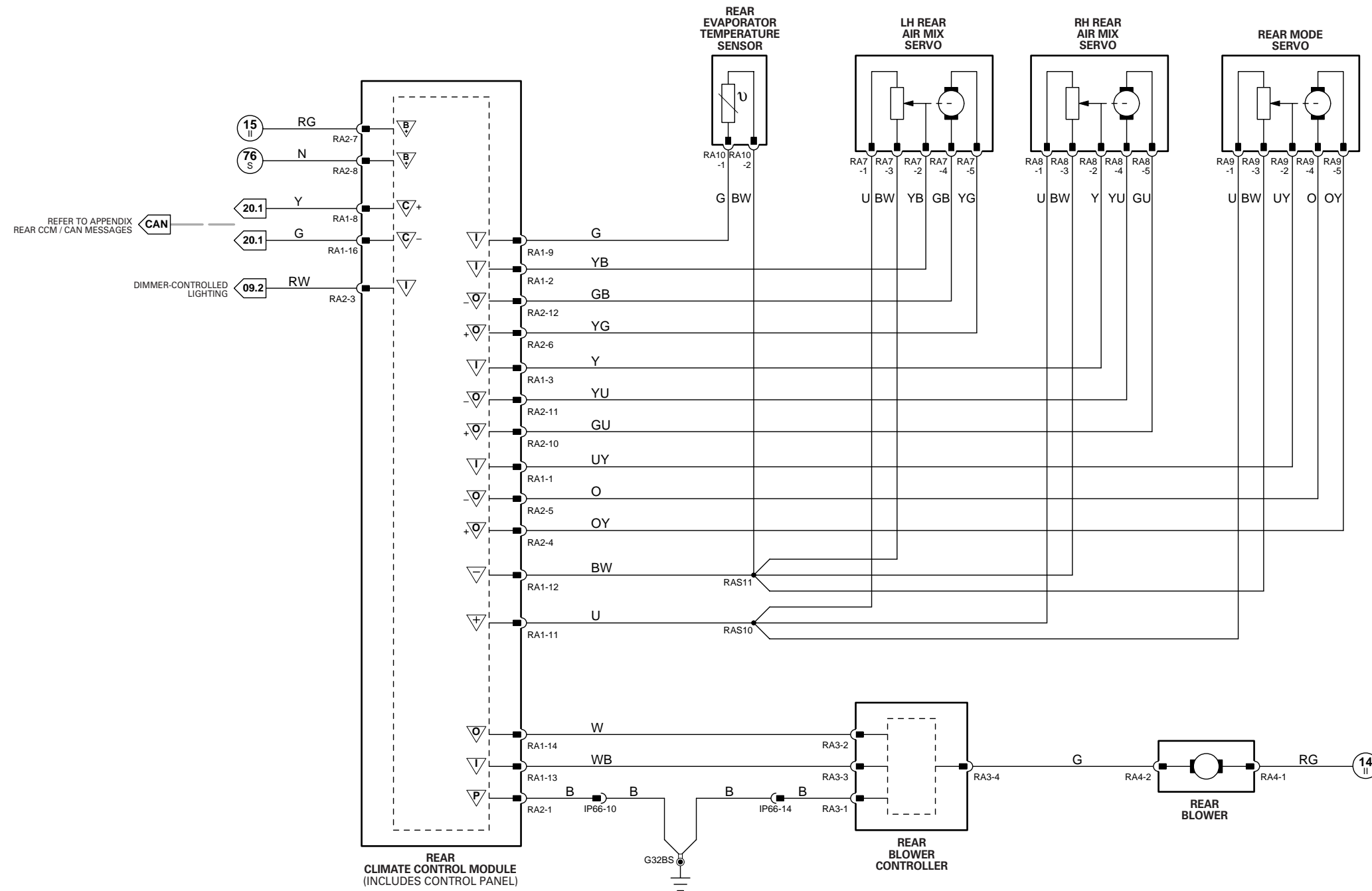
VARIANT: Adaptive Speed Control Vehicles  
 VIN RANGE: All  
 DATE OF ISSUE: October 2002 (PROVISIONAL)



CLIMATE CONTROL MODULE (Continued Fig. 06.2)



**NOTE:** CCM power supplies and grounds shown on Fig. 06.1.



1 → 6 Fig. 01.1  
7 → 64 Fig. 01.2

65 → 96 Fig. 01.3  
1 → 15 Fig. 01.4

16 → 50 Fig. 01.5  
51 → 76 Fig. 01.6

77 → 103 Fig. 01.7  
104 → 141 Fig. 01.8

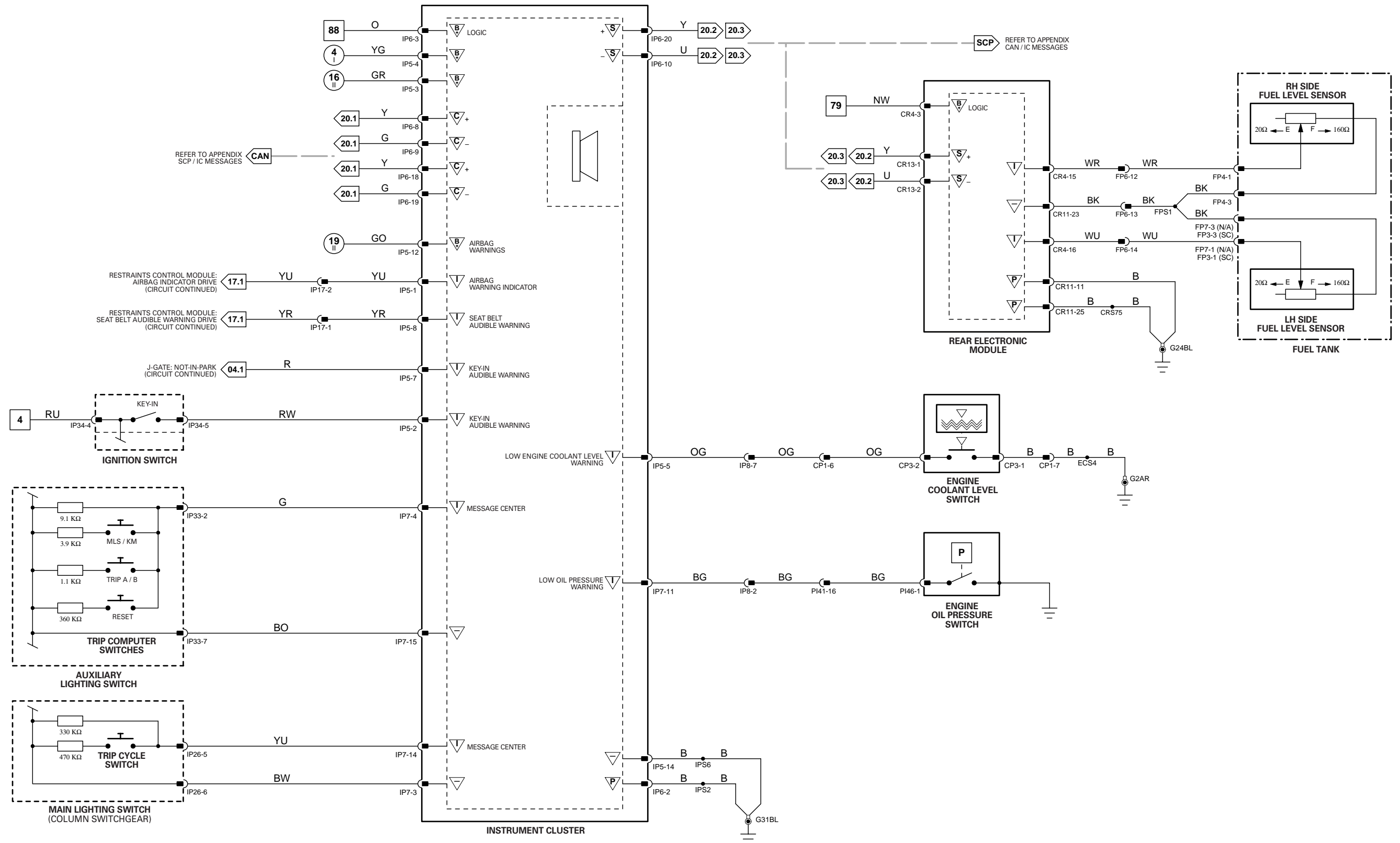
▽ Input  
▽ Output

⌚ Battery Voltage  
⌚ Power Ground

⌚ Sensor/Signal Supply V  
⌚ Sensor/Signal Ground

⌚ ACP  
⌚ CAN  
⌚ SCP  
⌚ Serial and Encoded Data

VARIANT: Rear Climate Control Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)



1 → 6 Fig. 01.1  
7 → 64 Fig. 01.2

65 → 96 Fig. 01.3  
1 → 15 Fig. 01.4

16 → 50 Fig. 01.5  
51 → 76 Fig. 01.6

77 → 103 Fig. 01.7  
104 → 141 Fig. 01.8

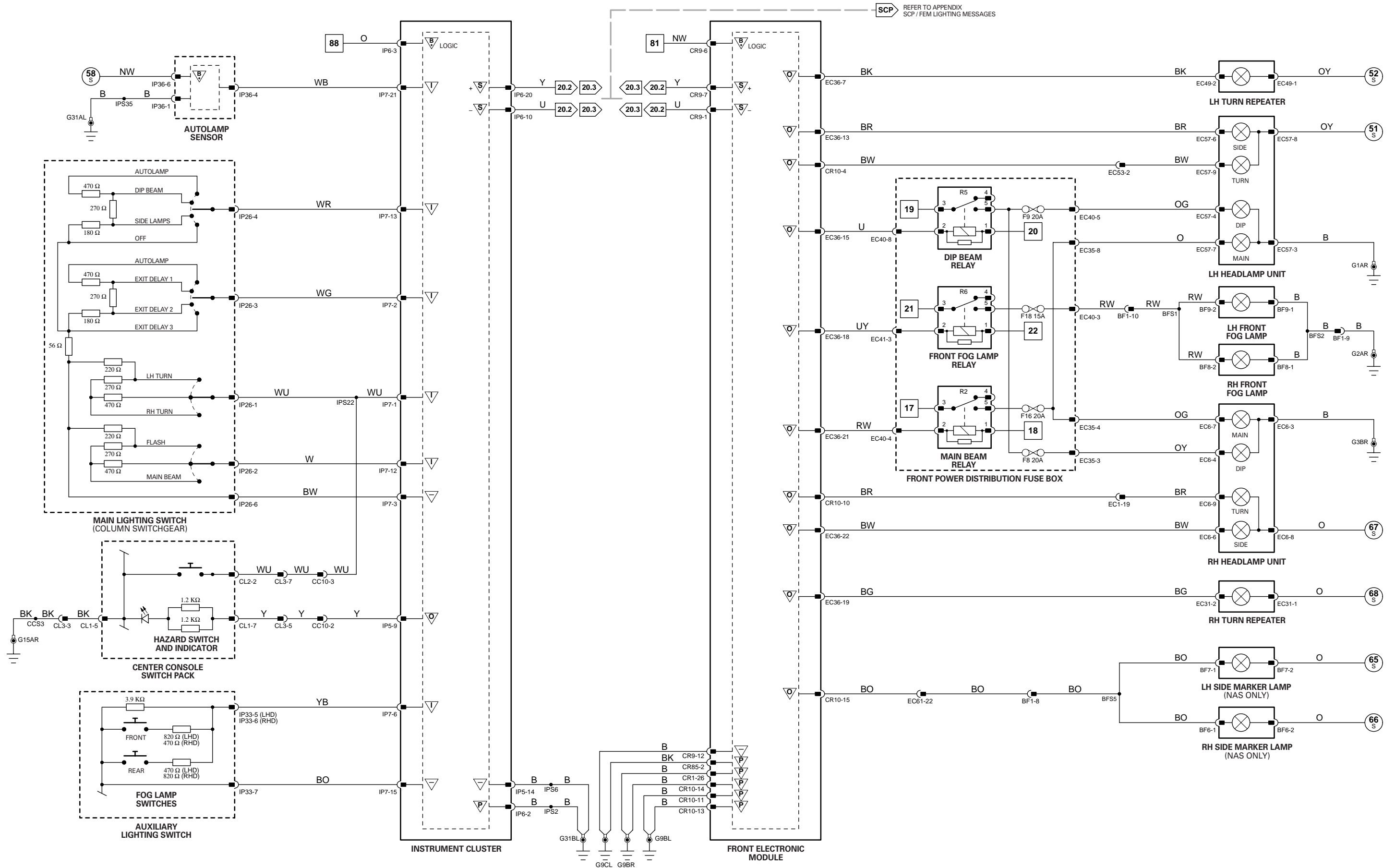
Input  
Output

B Battery Voltage  
P Power Ground

S Sensor/Signal Supply V  
S Sensor/Signal Ground

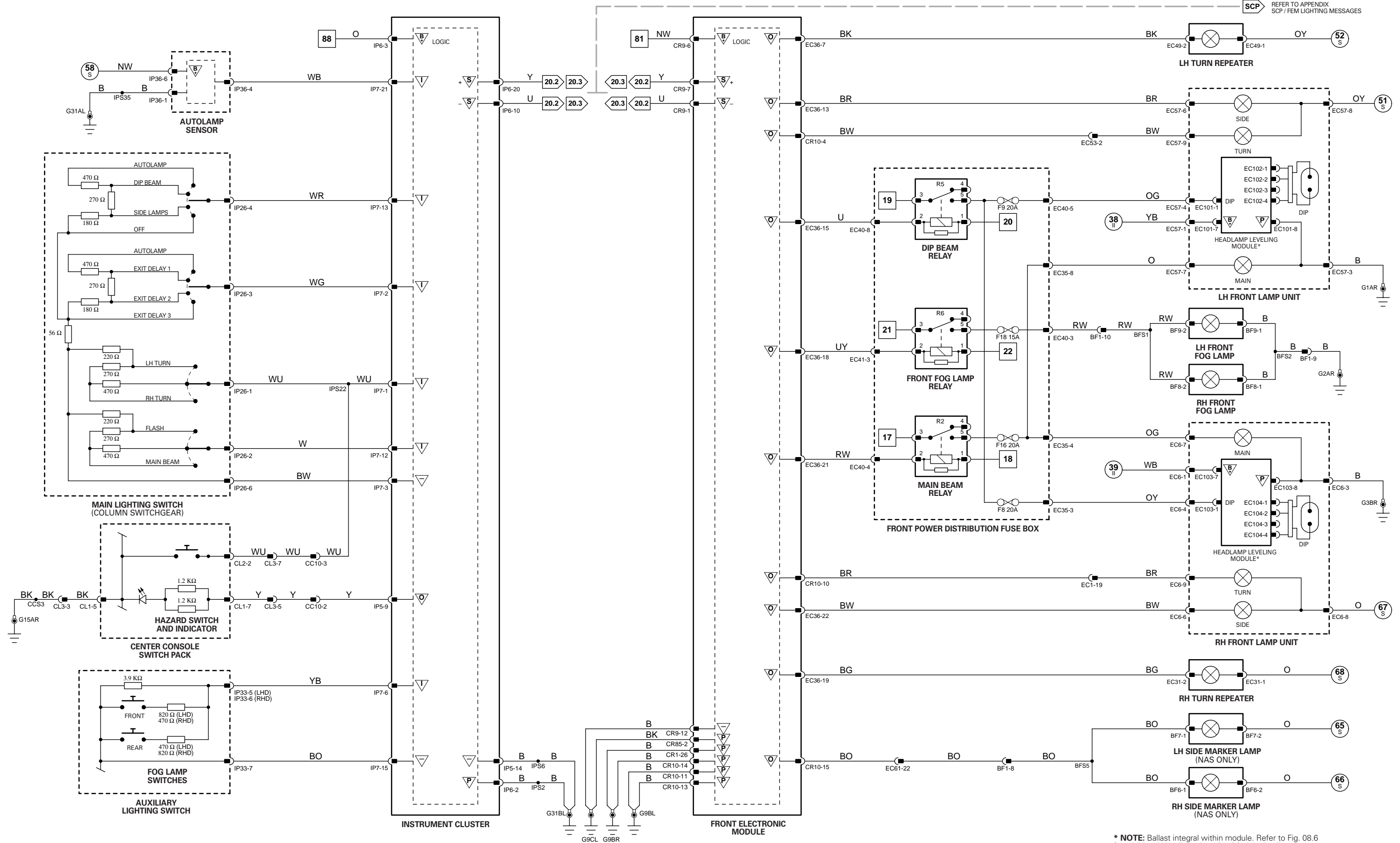
A ACP  
C CAN  
S SCP  
D Serial and Encoded Data

VARIANT: All Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)



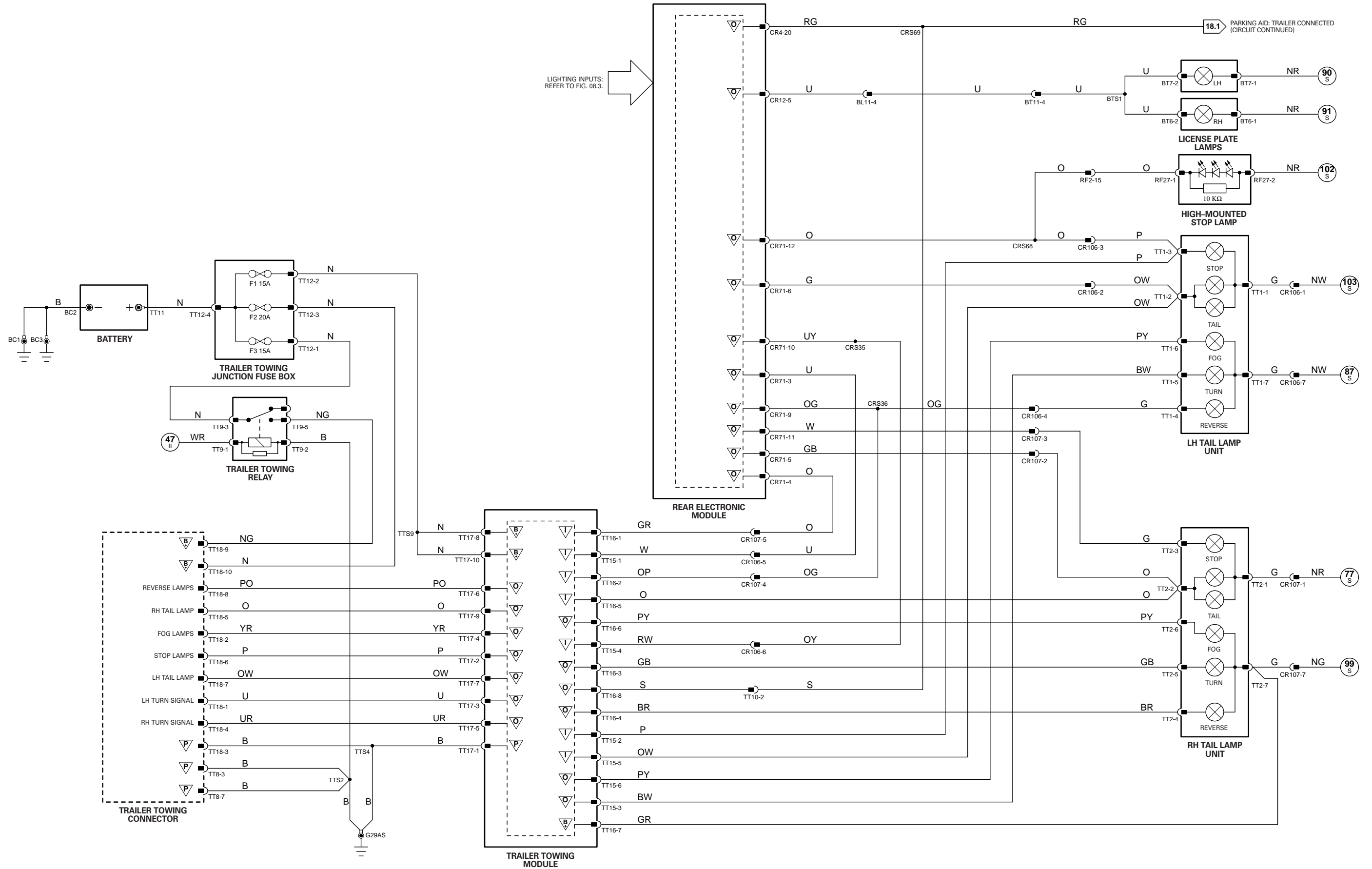
SCP REFER TO APPENDIX SCP / FEM LIGHTING MESSAGES





\* NOTE: Ballast integral within module. Refer to Fig. 08.6 for additional Headlamp Leveling Module details.





1 → 6 Fig. 01.1

65 → 96 Fig. 01.3

16 → 50 Fig. 01.5

77 → 103 Fig. 01.7

7 → 64 Fig. 01.2

1 → 15 Fig. 01.4

51 → 76 Fig. 01.6

104 → 141 Fig. 01.8

▽ Input

⊖ Battery Voltage

▽ Sensor/Signal Supply V

▽ ACP

▽ SCP

▽ Output

⊖ Power Ground

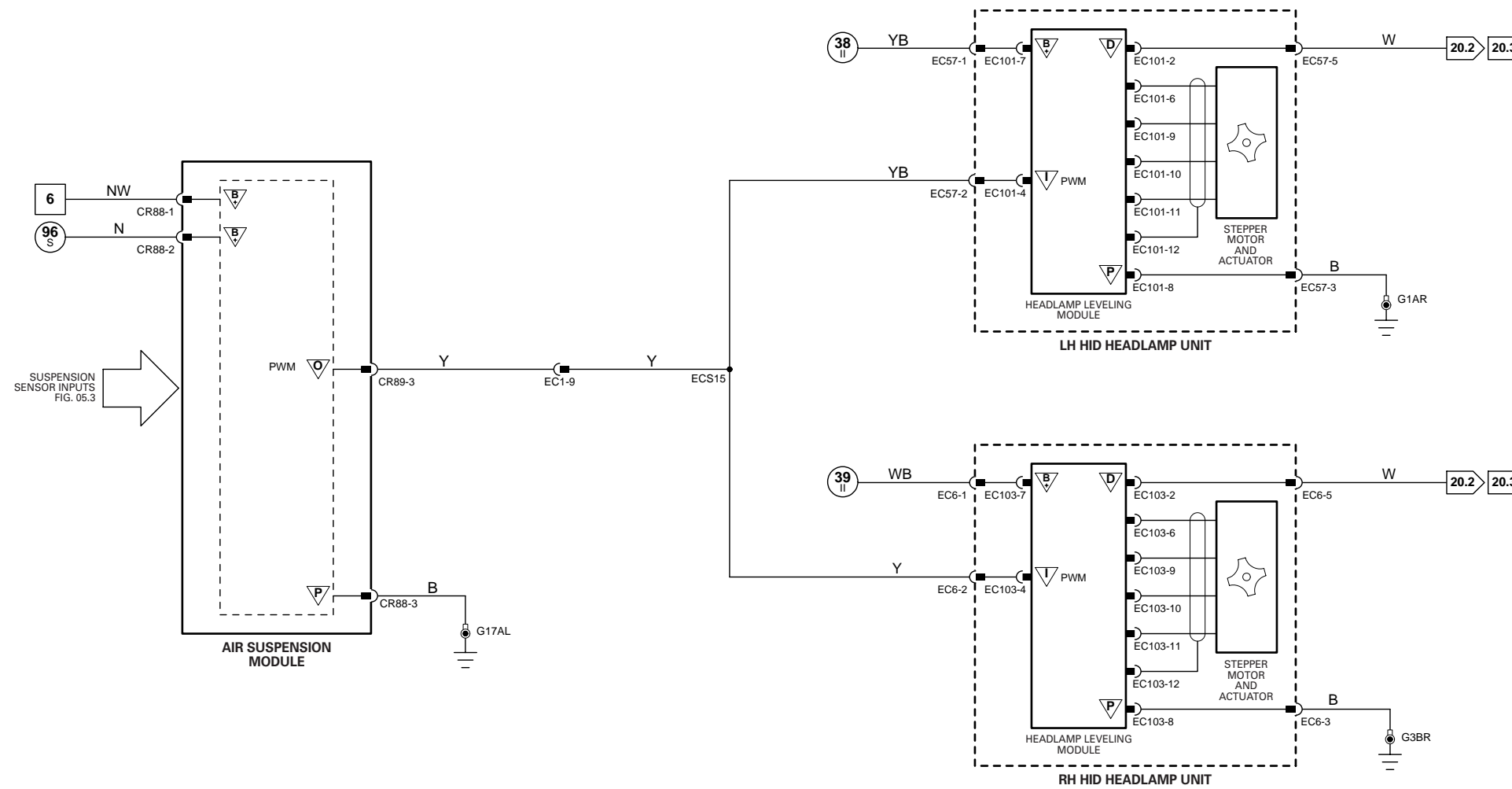
▽ Sensor/Signal Ground

▽ CAN

▽ Serial and Encoded Data

VARIANT: European Trailer Towing Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)





1 → 6 Fig. 01.1  
7 → 64 Fig. 01.2

65 → 96 Fig. 01.3  
1 → 15 Fig. 01.4

16 → 50 Fig. 01.5  
51 → 76 Fig. 01.6

77 → 103 Fig. 01.7  
104 → 141 Fig. 01.8

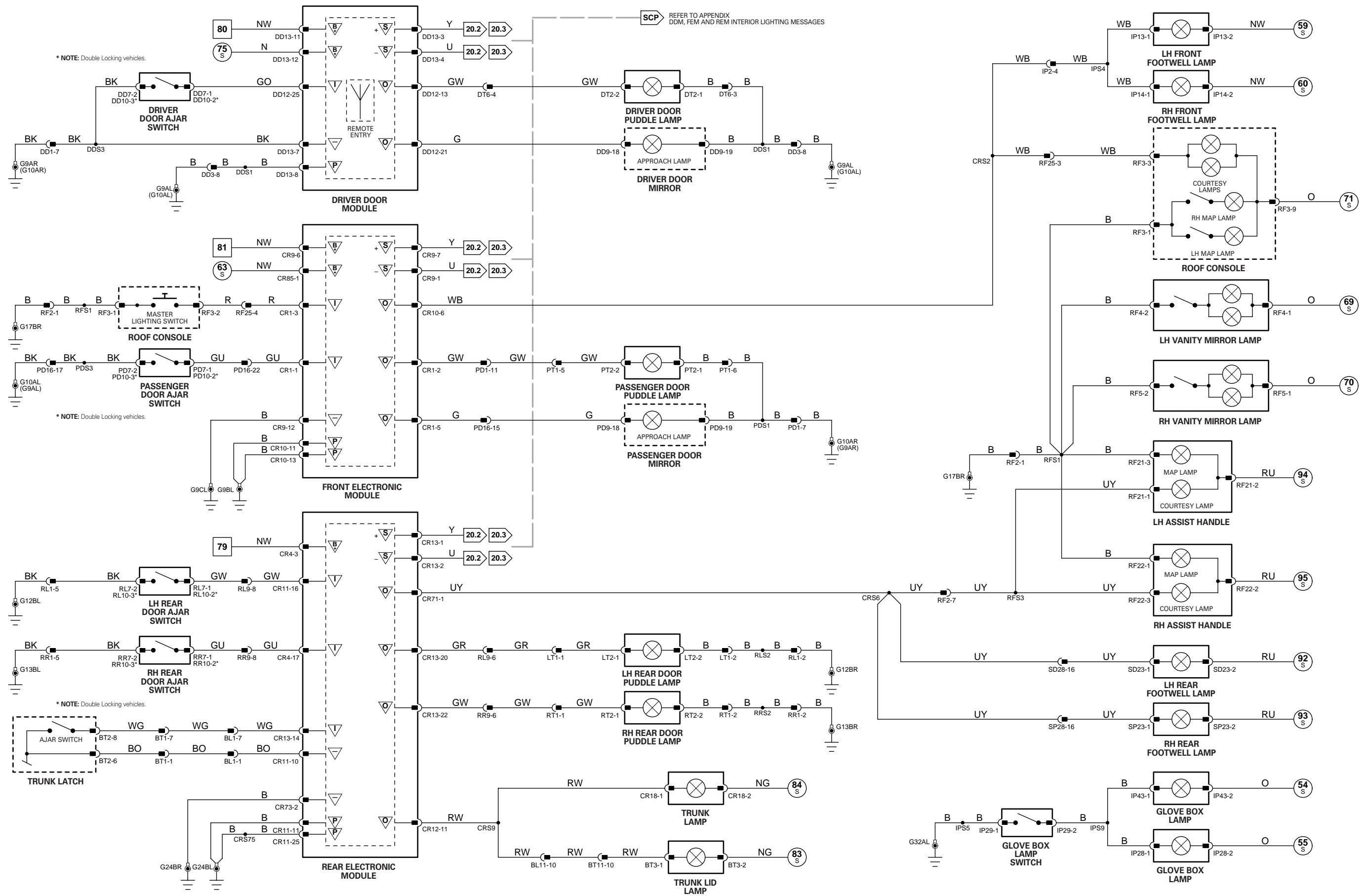
▽ Input  
▽ Output

▽ Battery Voltage  
▽ Power Ground

▽ Sensor/Signal Supply V  
▽ Sensor/Signal Ground

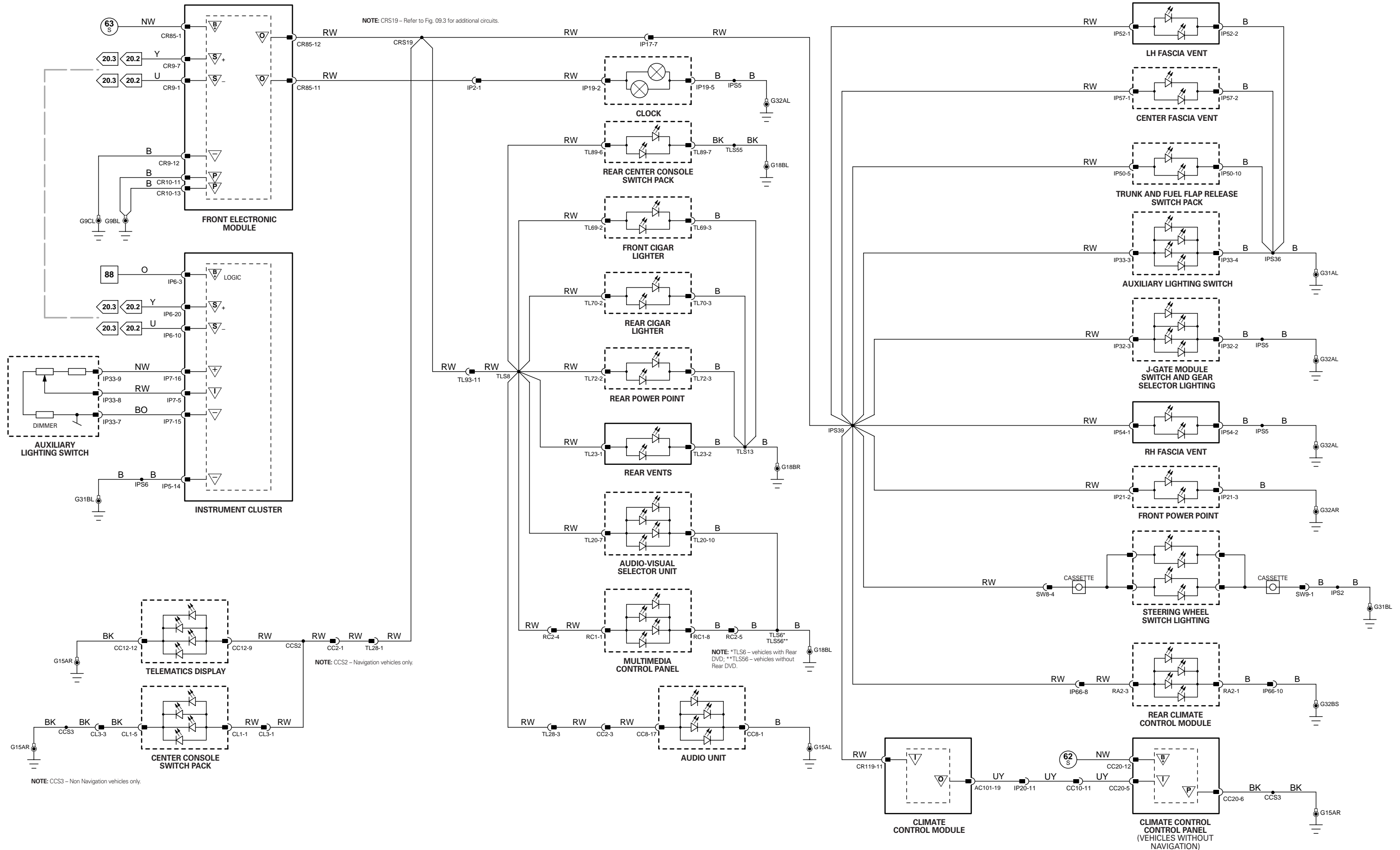
▽ ACP  
▽ CAN  
▽ SCP  
▽ Serial and Encoded Data

VARIANT: HID Headlamp Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)

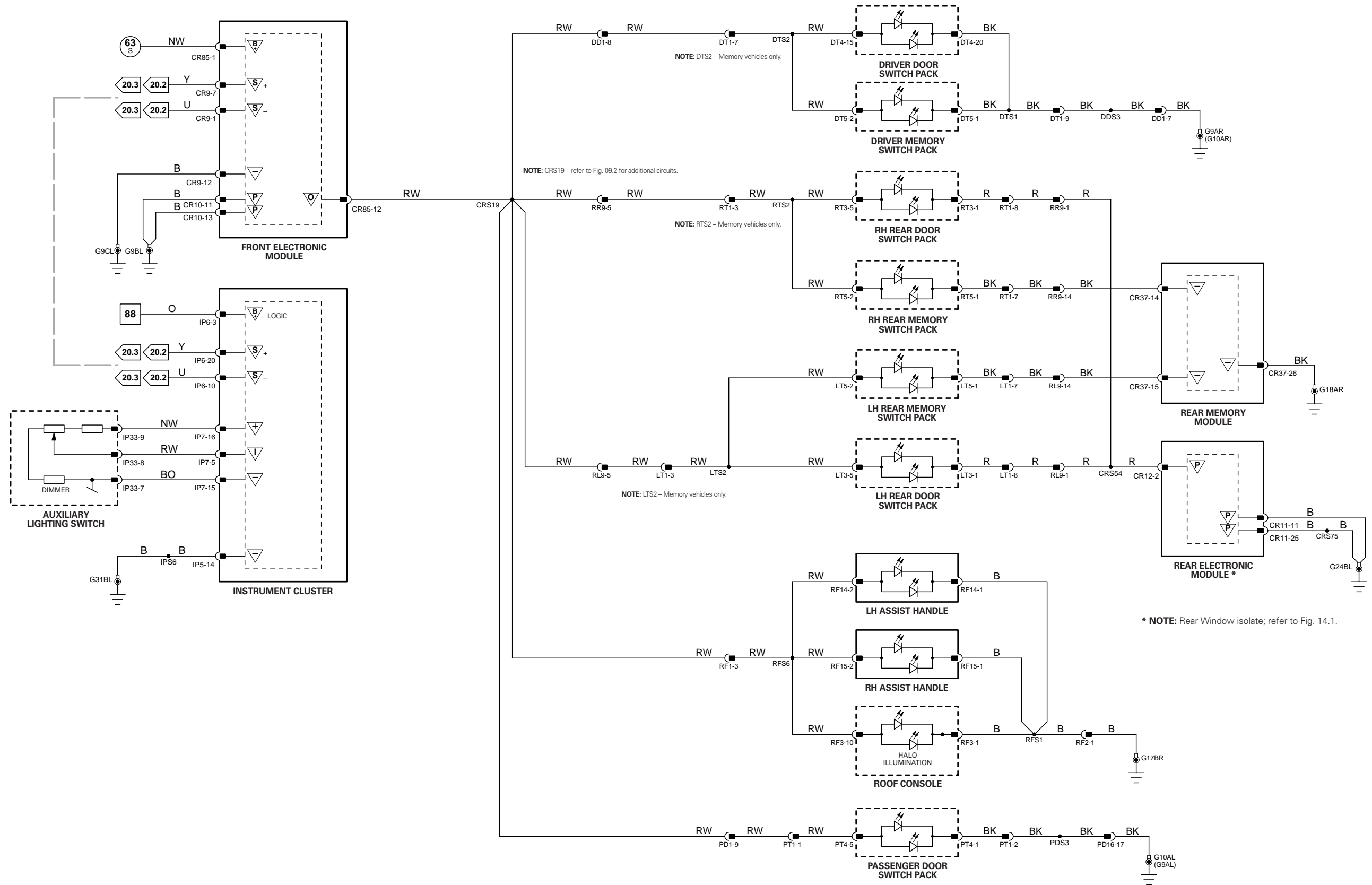


1 → 6	65 → 96	16 → 50	77 → 103	Input	Battery Voltage	Sensor/Signal Supply V	ACP	SCP
7 → 64	1 → 15	51 → 76	104 → 141	Output	Power Ground	Sensor/Signal Ground	CAN	Serial and Encoded Data

VARIANT: All Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)





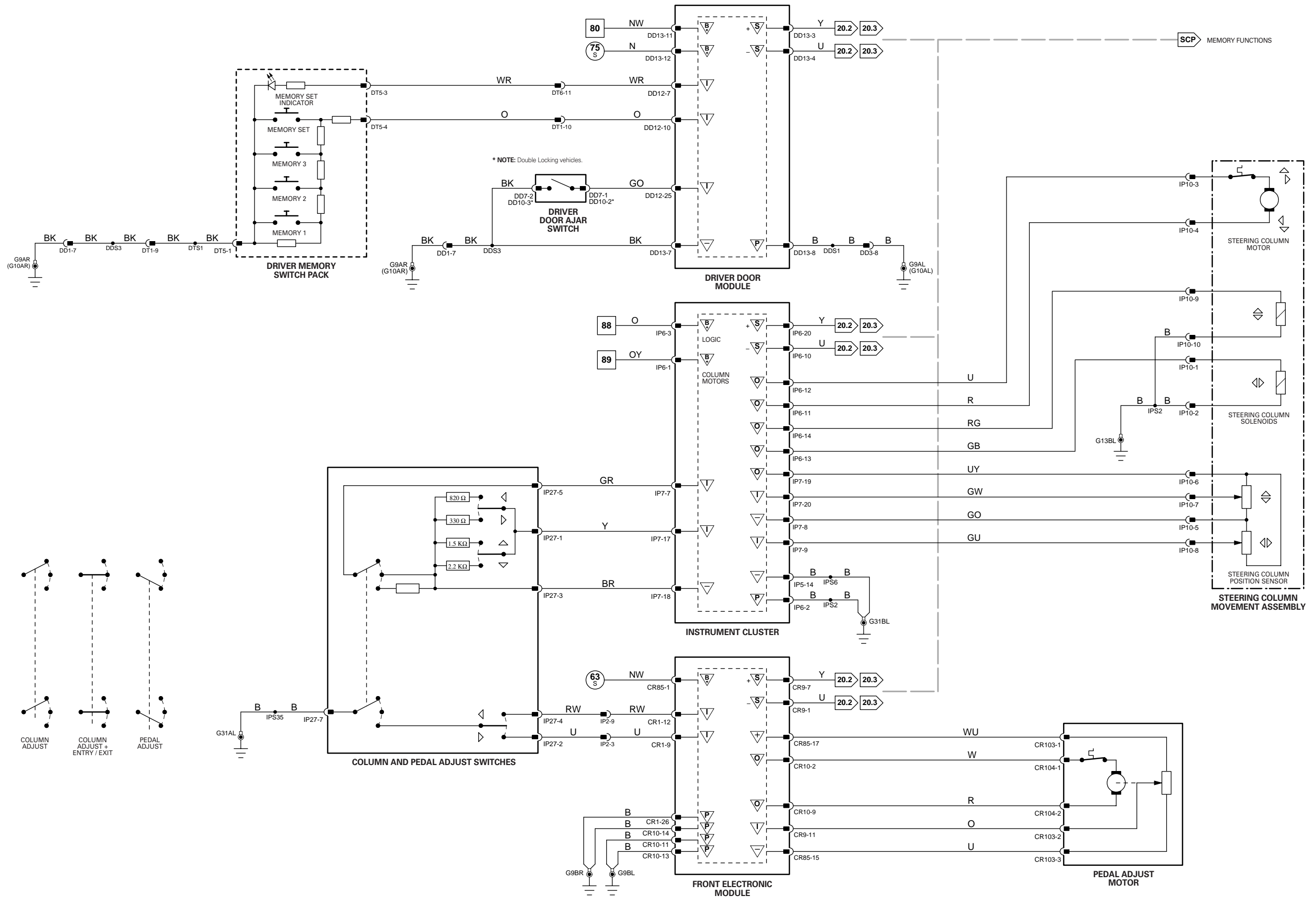


1 → 6	Fig. 01.1	65 → 96	Fig. 01.3	16 → 50	Fig. 01.5	77 → 103	Fig. 01.7
7 → 64	Fig. 01.2	1 → 15	Fig. 01.4	51 → 76	Fig. 01.6	104 → 141	Fig. 01.8

	Input		Battery Voltage		Sensor/Signal Supply V		ACP		SCP
	Output		Power Ground		Sensor/Signal Ground		CAN		Serial and Encoded Data

VARIANT: All Vehicles  
 VIN RANGE: All  
 DATE OF ISSUE: October 2002 (PROVISIONAL)





1 → 6 Fig. 01.1  
7 → 64 Fig. 01.2

65 → 96 Fig. 01.3  
1 → 15 Fig. 01.4

16 → 50 Fig. 01.5  
51 → 76 Fig. 01.6

77 → 103 Fig. 01.7  
104 → 141 Fig. 01.8

▽ Input  
▽ Output

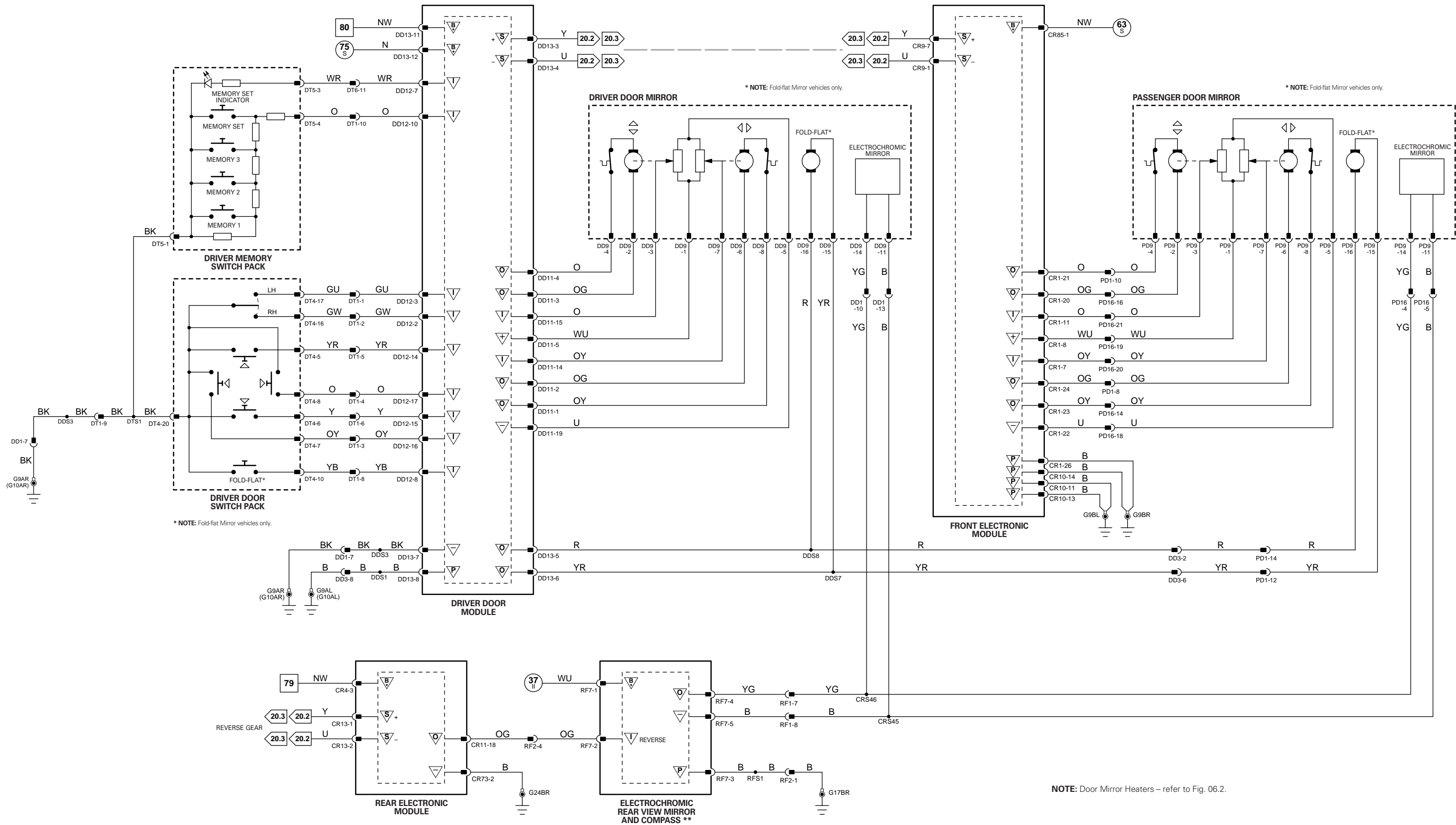
⌋ Battery Voltage  
⌋ Power Ground

▽ Sensor/Signal Supply V  
▽ Sensor/Signal Ground

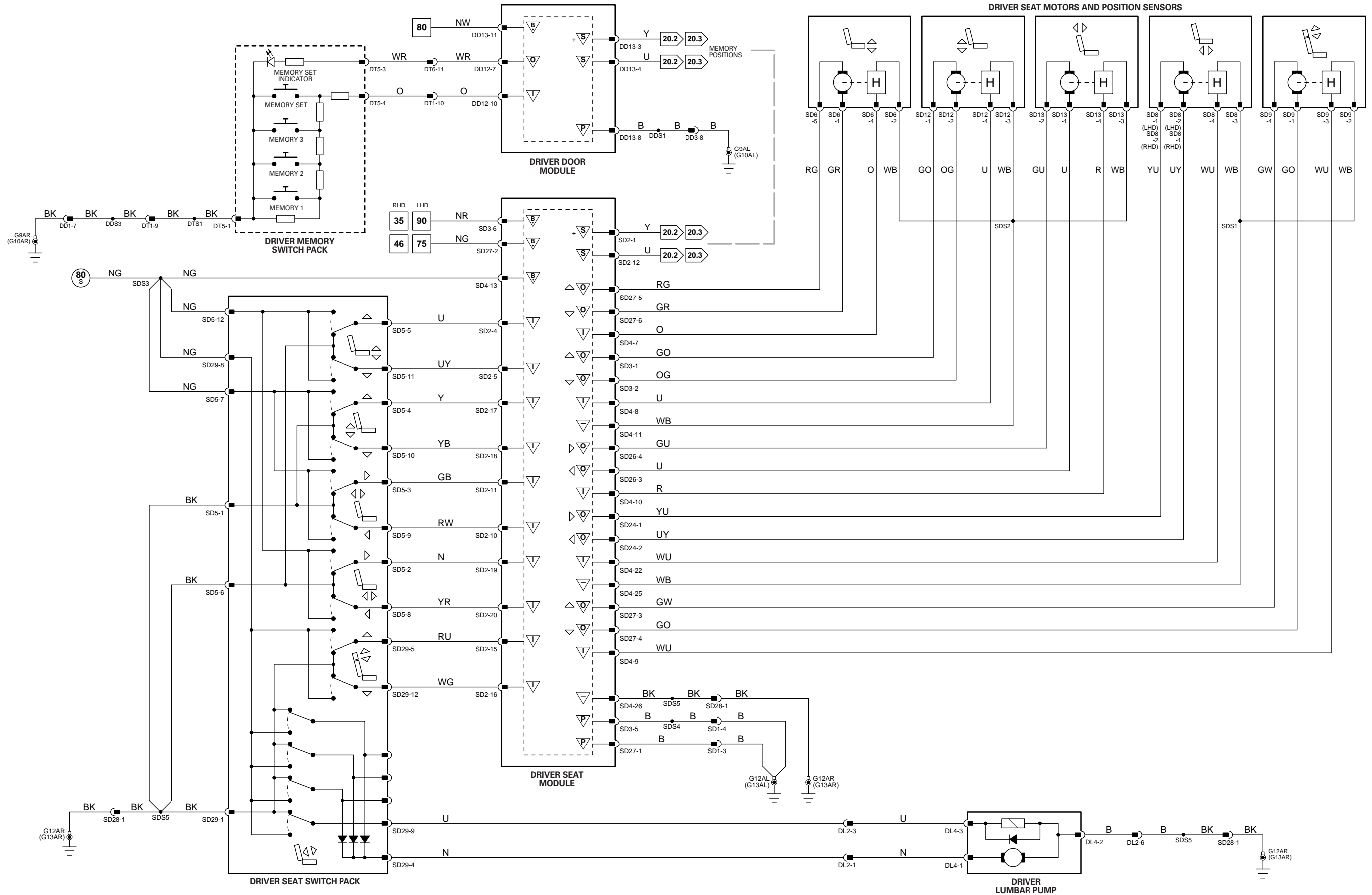
⌋ ACP  
⌋ SCP

⌋ CAN  
⌋ Serial and Encoded Data

VARIANT: All Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)



NOTE: Door Mirror Heaters – refer to Fig. 06.2.



1 → 6 Fig. 01.1  
7 → 64 Fig. 01.2

65 → 96 Fig. 01.3  
1 → 15 Fig. 01.4

16 → 50 Fig. 01.5  
51 → 76 Fig. 01.6

77 → 103 Fig. 01.7  
104 → 141 Fig. 01.8

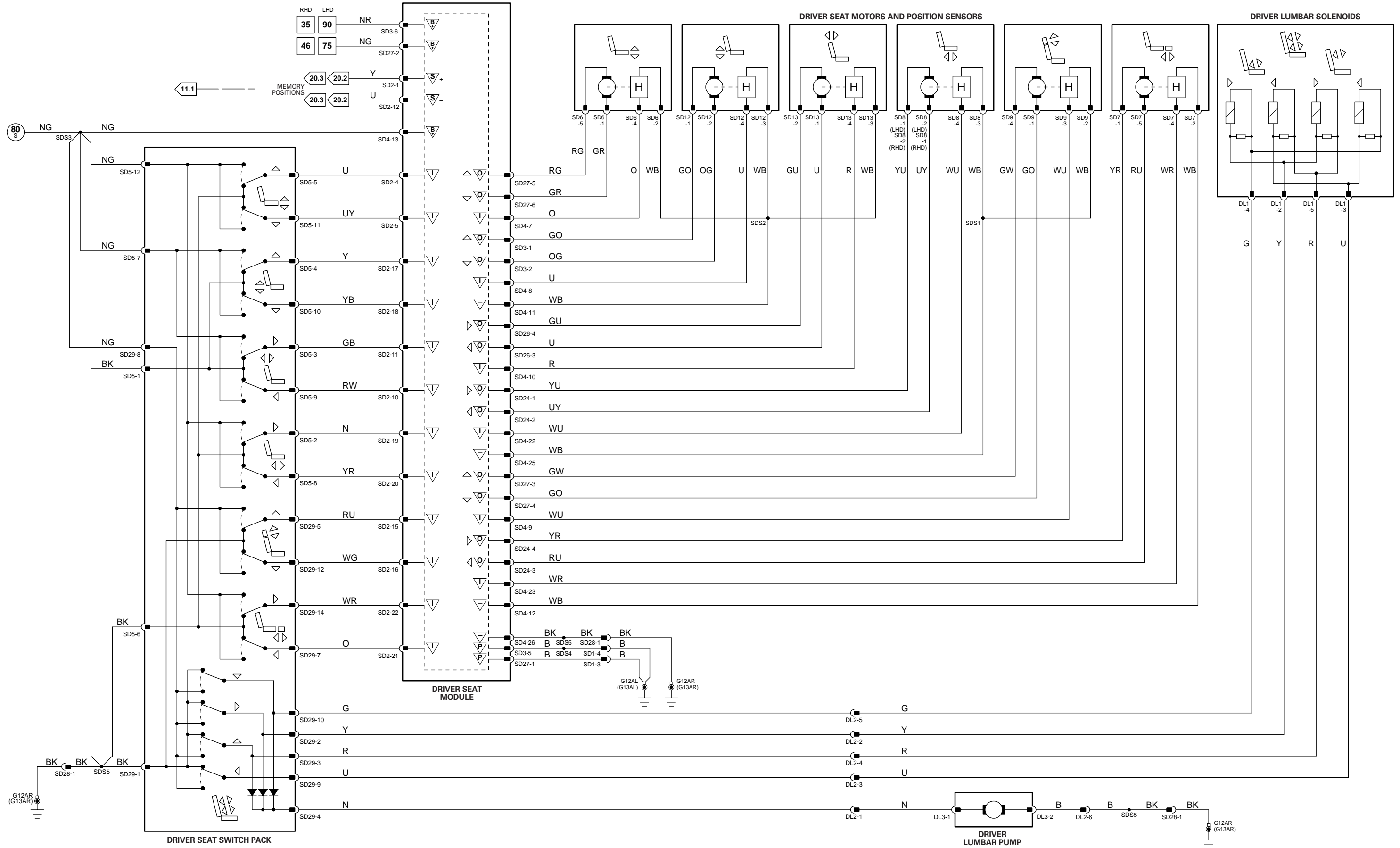
▽ Input  
▽ Output

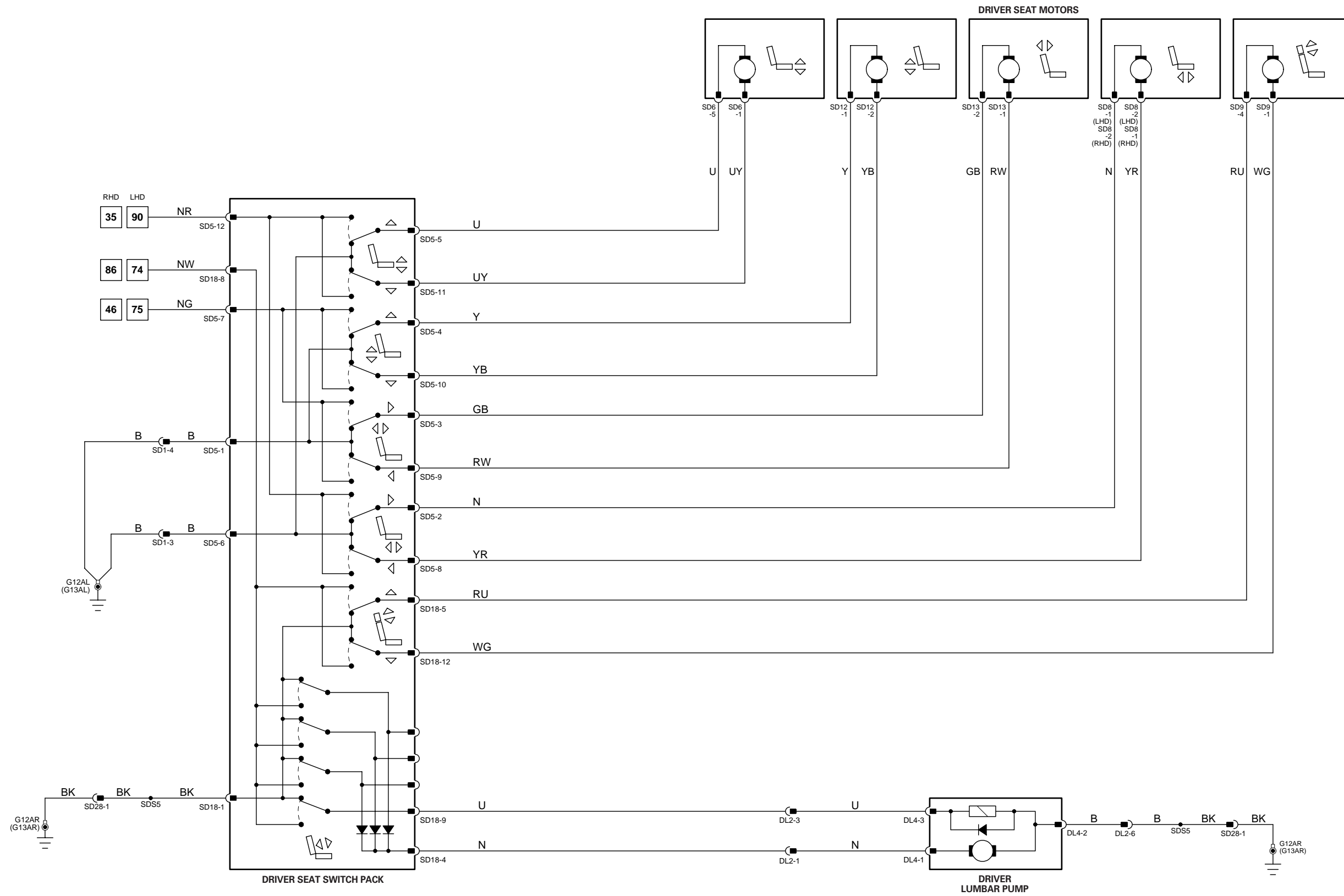
B Battery Voltage  
P Power Ground

▽ Sensor/Signal Supply V  
▽ Sensor/Signal Ground

△ ACP  
S SCP  
C CAN  
D Serial and Encoded Data

VARIANT: 12-Way Seat Memory Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)





1 → 6 Fig. 01.1  
7 → 64 Fig. 01.2

65 → 96 Fig. 01.3  
1 → 15 Fig. 01.4

16 → 50 Fig. 01.5  
51 → 76 Fig. 01.6

77 → 103 Fig. 01.7  
104 → 141 Fig. 01.8

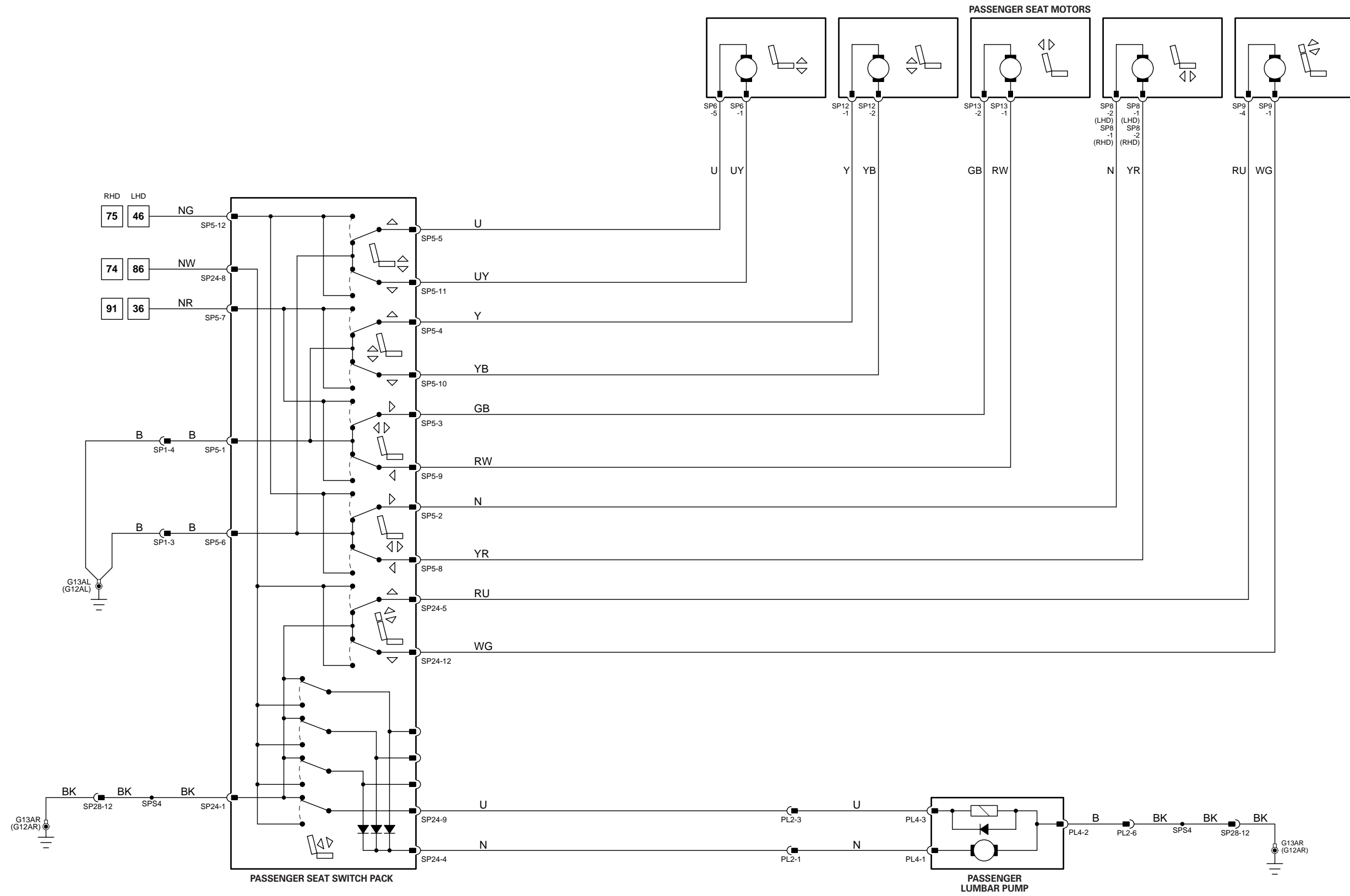
▽ Input  
▽ Output

B Battery Voltage  
P Power Ground

▽ Sensor/Signal Supply V  
▽ Sensor/Signal Ground

△ ACP  
C CAN  
S SCP  
D Serial and Encoded Data

VARIANT: Non Memory Seat Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)



1 → 6 Fig. 01.1  
7 → 64 Fig. 01.2

65 → 96 Fig. 01.3  
1 → 15 Fig. 01.4

16 → 50 Fig. 01.5  
51 → 76 Fig. 01.6

77 → 103 Fig. 01.7  
104 → 141 Fig. 01.8

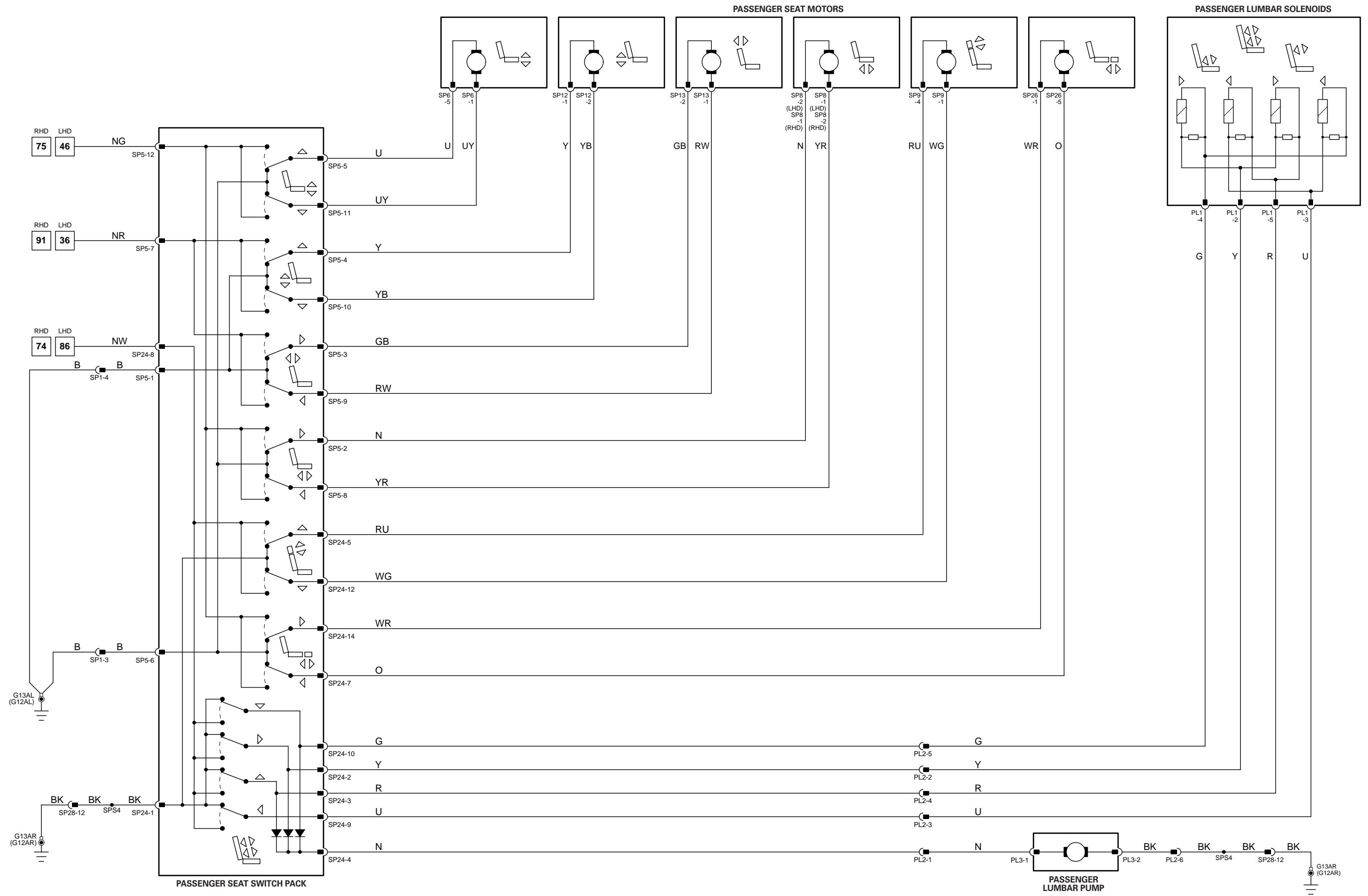
▽ Input  
▽ Output

B Battery Voltage  
P Power Ground

▽ Sensor/Signal Supply V  
▽ Sensor/Signal Ground

A ACP S SCP  
C CAN D Serial and Encoded Data

VARIANT: 12-Way Passenger Seat Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)

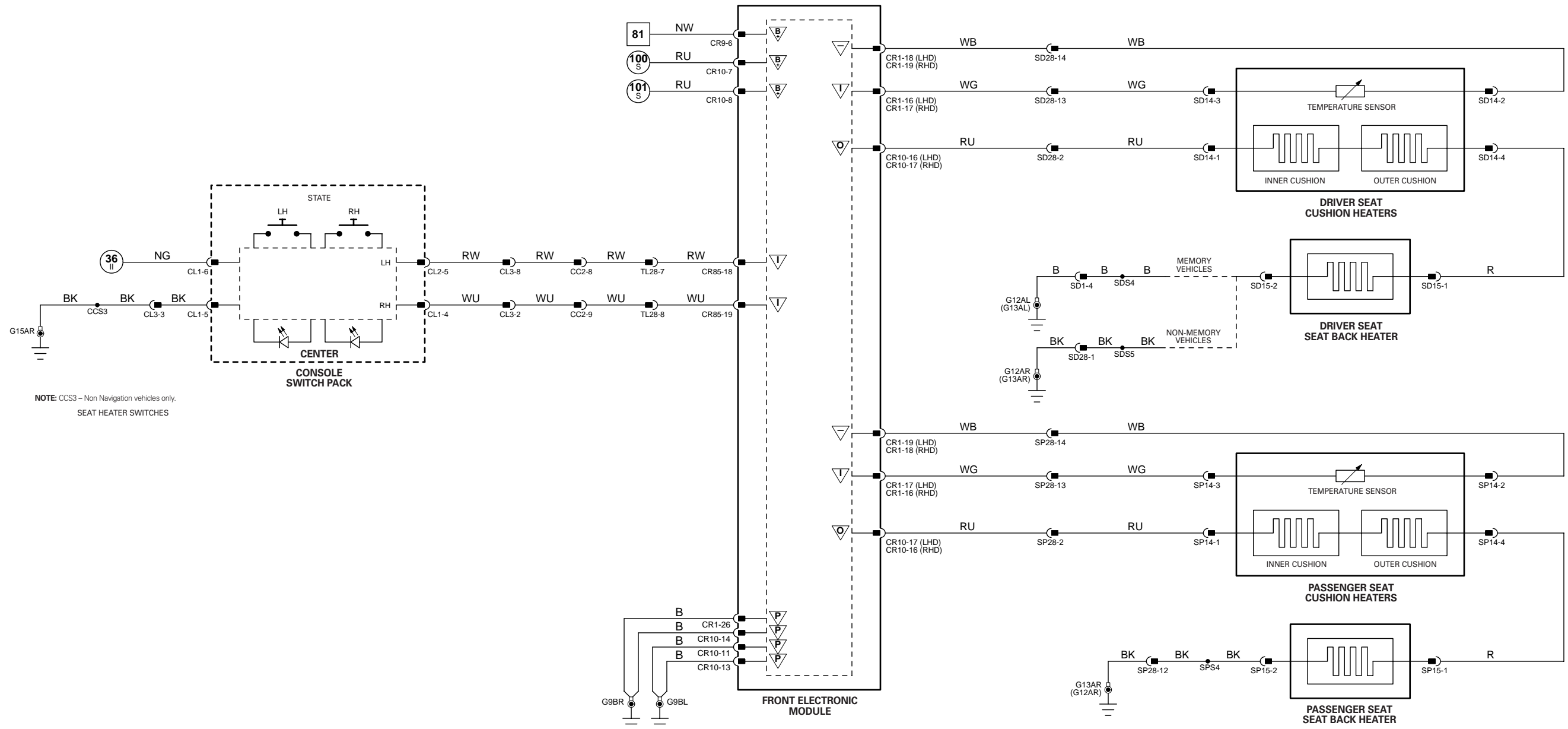


1 → 6 Fig. 01.1	65 → 96 Fig. 01.3	16 → 50 Fig. 01.5	77 → 103 Fig. 01.7	Input	B Battery Voltage	▽ Sensor/Signal Supply V	▽ ACP	▽ SCP
7 → 64 Fig. 01.2	1 → 15 Fig. 01.4	51 → 76 Fig. 01.6	104 → 141 Fig. 01.8	Output	P Power Ground	▽ Sensor/Signal Ground	▽ CAN	▽ Serial and Encoded Data

VARIANT: 16-Way Passenger Seat Vehicles  
 VIN RANGE: All  
 DATE OF ISSUE: October 2002 (PROVISIONAL)





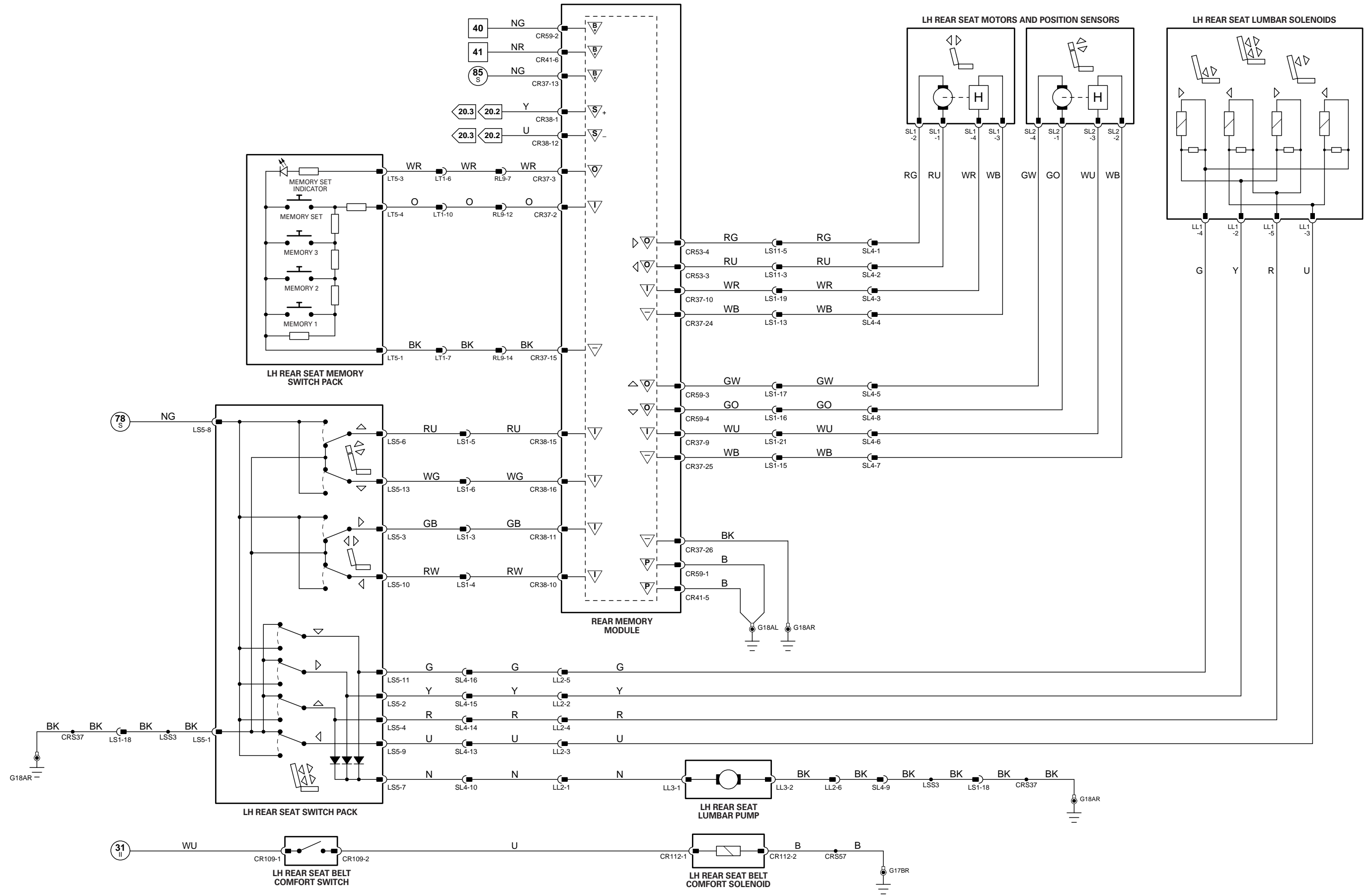


NOTE: CCS3 - Non Navigation vehicles only.  
SEAT HEATER SWITCHES

1 → 6	Fig. 01.1	65 → 96	Fig. 01.3	16 → 50	Fig. 01.5	77 → 103	Fig. 01.7
7 → 64	Fig. 01.2	1 → 15	Fig. 01.4	51 → 76	Fig. 01.6	104 → 141	Fig. 01.8

▽	Input	B	Battery Voltage	▽	Sensor/Signal Supply V	▽	ACP	▽	SCP
▽	Output	P	Power Ground	▽	Sensor/Signal Ground	▽	CAN	▽	Serial and Encoded Data

VARIANT: Heated Front Seats Vehicles  
 VIN RANGE: All  
 DATE OF ISSUE: October 2002 (PROVISIONAL)



1 → 6 Fig. 01.1  
7 → 64 Fig. 01.2

65 → 96 Fig. 01.3  
1 → 15 Fig. 01.4

16 → 50 Fig. 01.5  
51 → 76 Fig. 01.6

77 → 103 Fig. 01.7  
104 → 141 Fig. 01.8

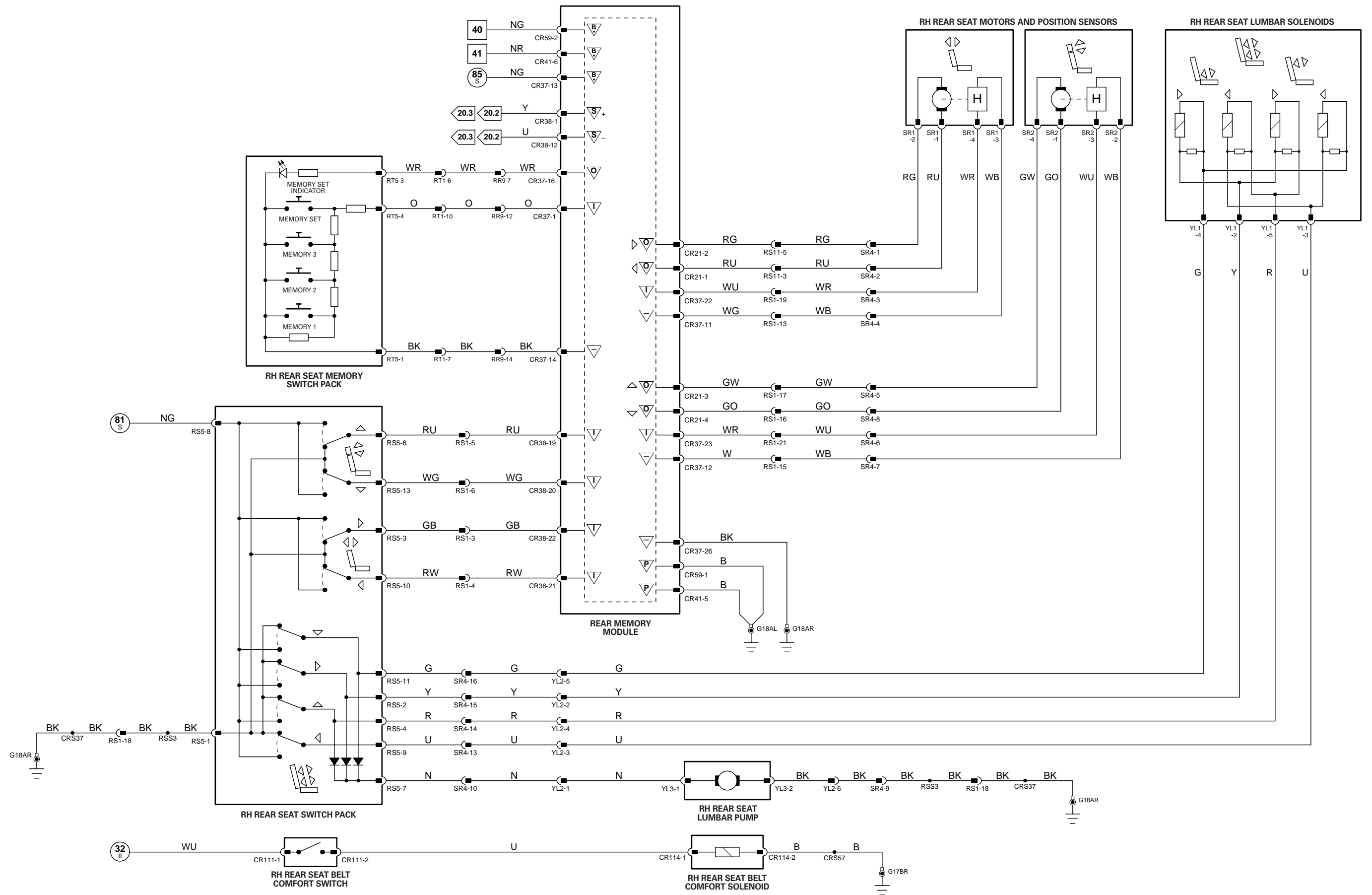
▽ Input  
▽ Output

B Battery Voltage  
P Power Ground

▽ Sensor/Signal Supply V  
▽ Sensor/Signal Ground

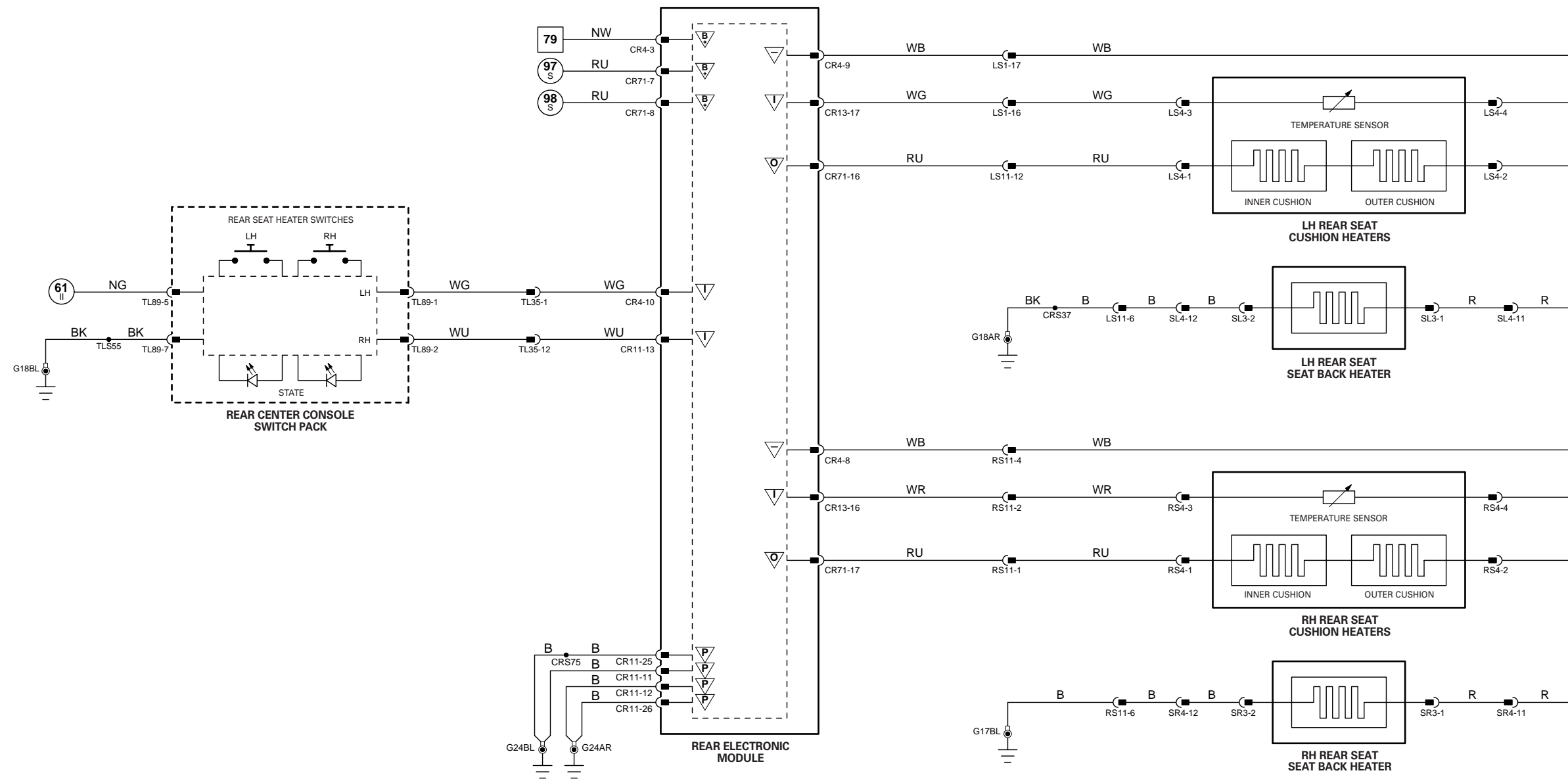
A ACP  
C CAN  
S SCP  
D Serial and Encoded Data

VARIANT: Powered Rear Seats Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)



1 → 6	Fig. 01.1	65 → 96	Fig. 01.3	16 → 50	Fig. 01.5	77 → 103	Fig. 01.7	▽ Input	Ⓟ Battery Voltage	▽ Sensor/Signal Supply V	▽ ACP	Ⓞ SCP
7 → 64	Fig. 01.2	1 → 15	Fig. 01.4	51 → 76	Fig. 01.6	104 → 141	Fig. 01.8	▽ Output	Ⓟ Power Ground	▽ Sensor/Signal Ground	▽ CAN	▽ Serial and Encoded Data

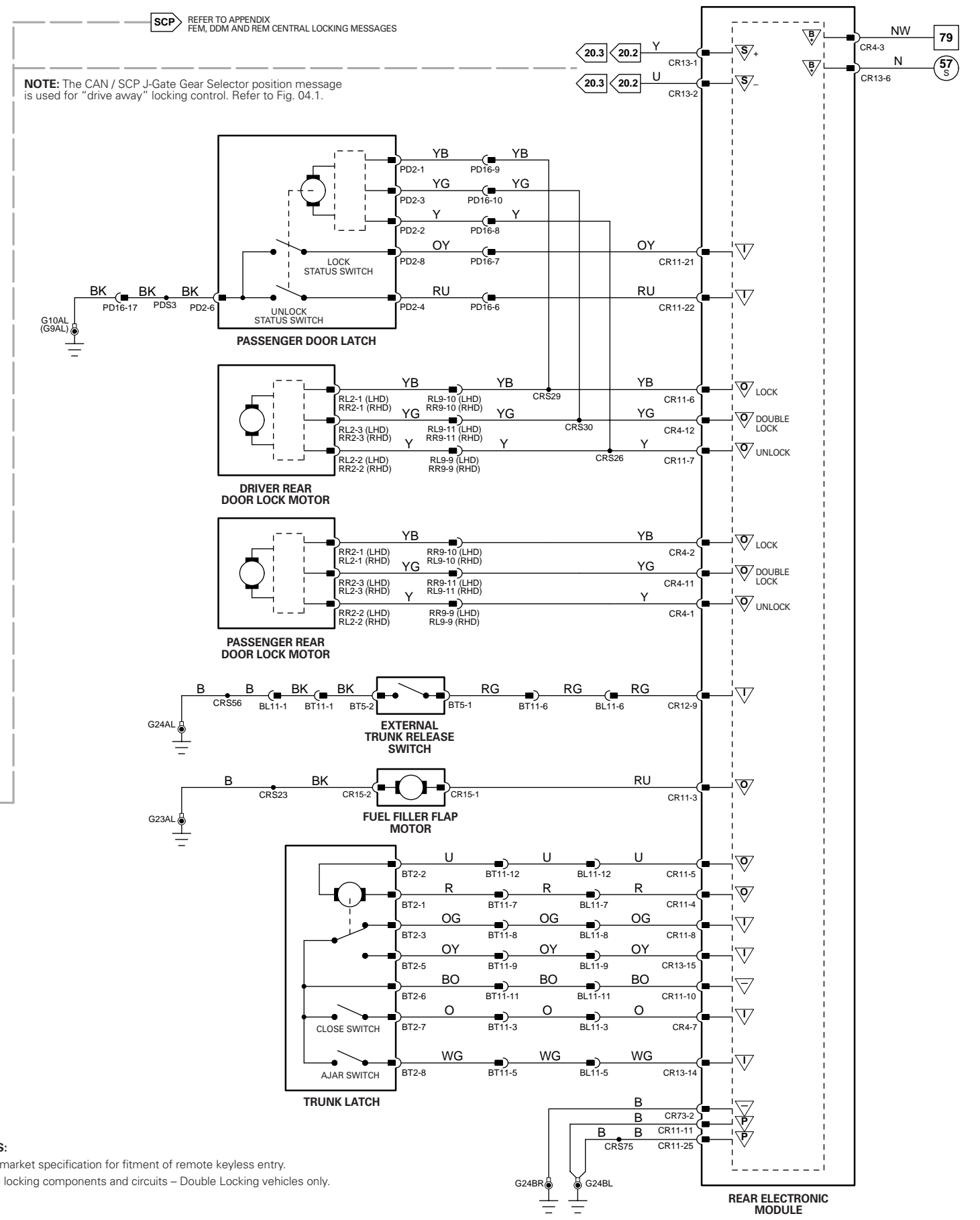
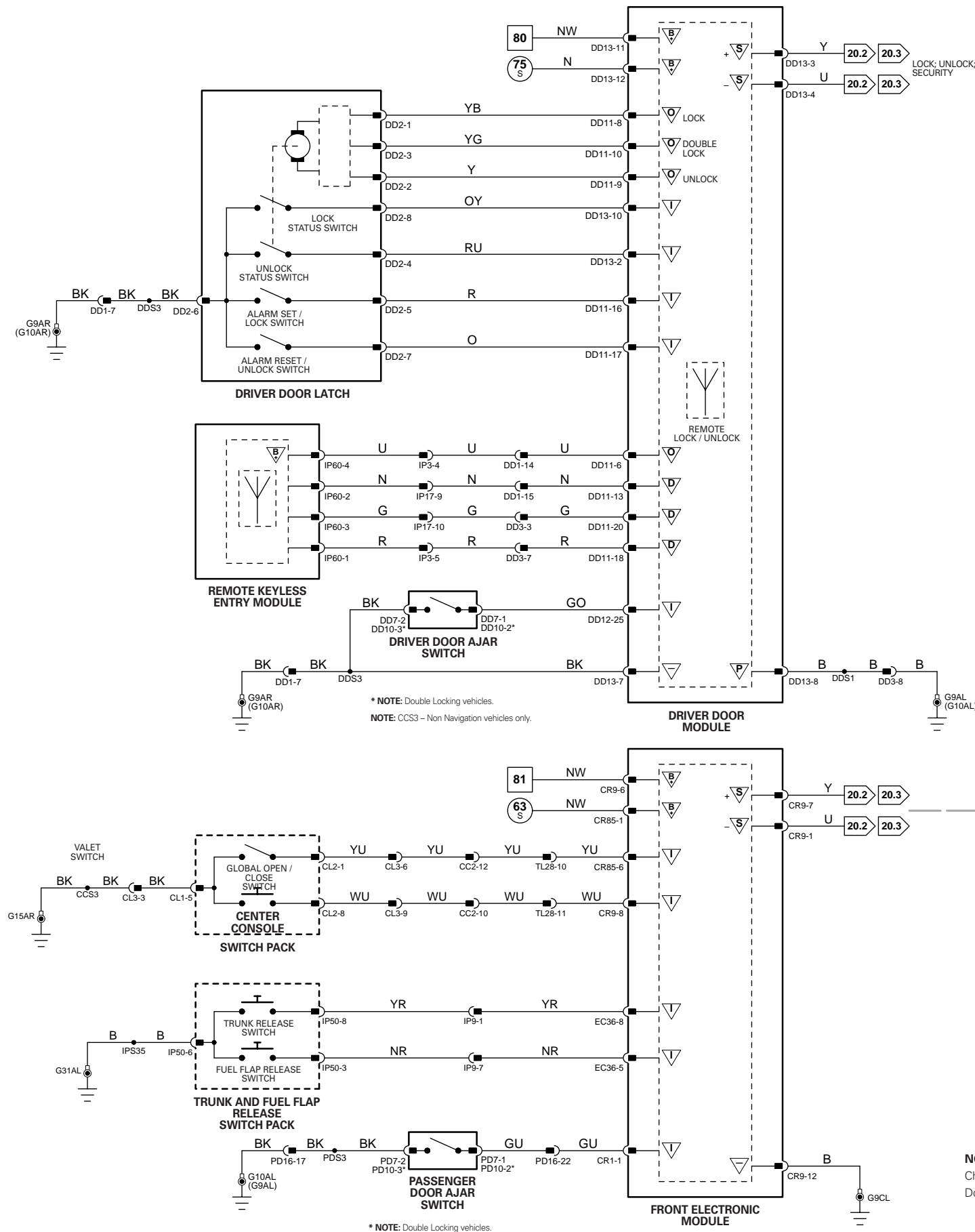
VARIANT: Powered Rear Seats Vehicles  
 VIN RANGE: All  
 DATE OF ISSUE: October 2002 (PROVISIONAL)



1 → 6	Fig. 01.1	65 → 96	Fig. 01.3	16 → 50	Fig. 01.5	77 → 103	Fig. 01.7
7 → 64	Fig. 01.2	1 → 15	Fig. 01.4	51 → 76	Fig. 01.6	104 → 141	Fig. 01.8

▽	Input	B	Battery Voltage	▽	Sensor/Signal Supply V	△	ACP	△	SCP
▽	Output	P	Power Ground	▽	Sensor/Signal Ground	△	CAN	▽	Serial and Encoded Data

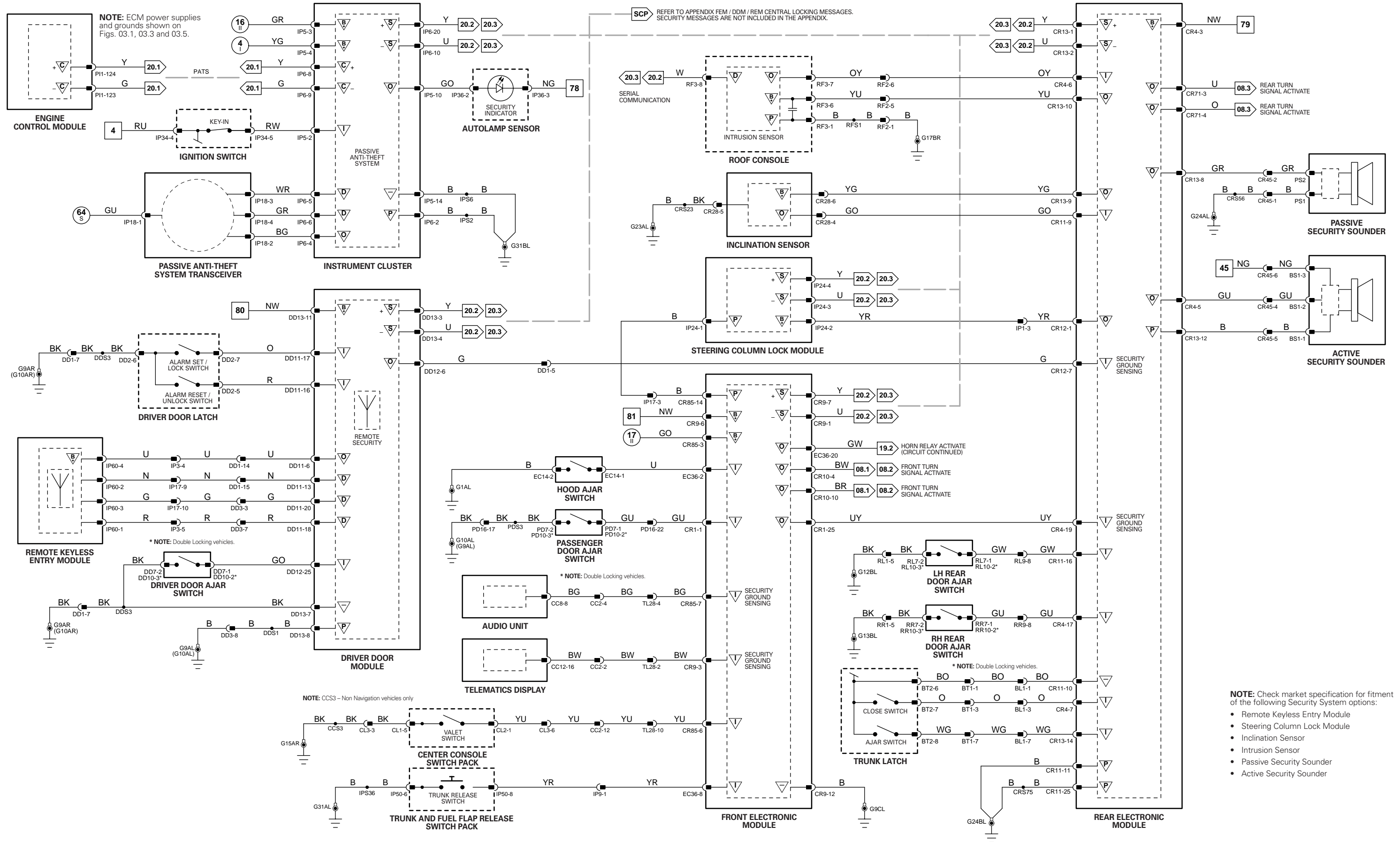
VARIANT: Heated Rear Seats Vehicles  
 VIN RANGE: All  
 DATE OF ISSUE: October 2002 (PROVISIONAL)

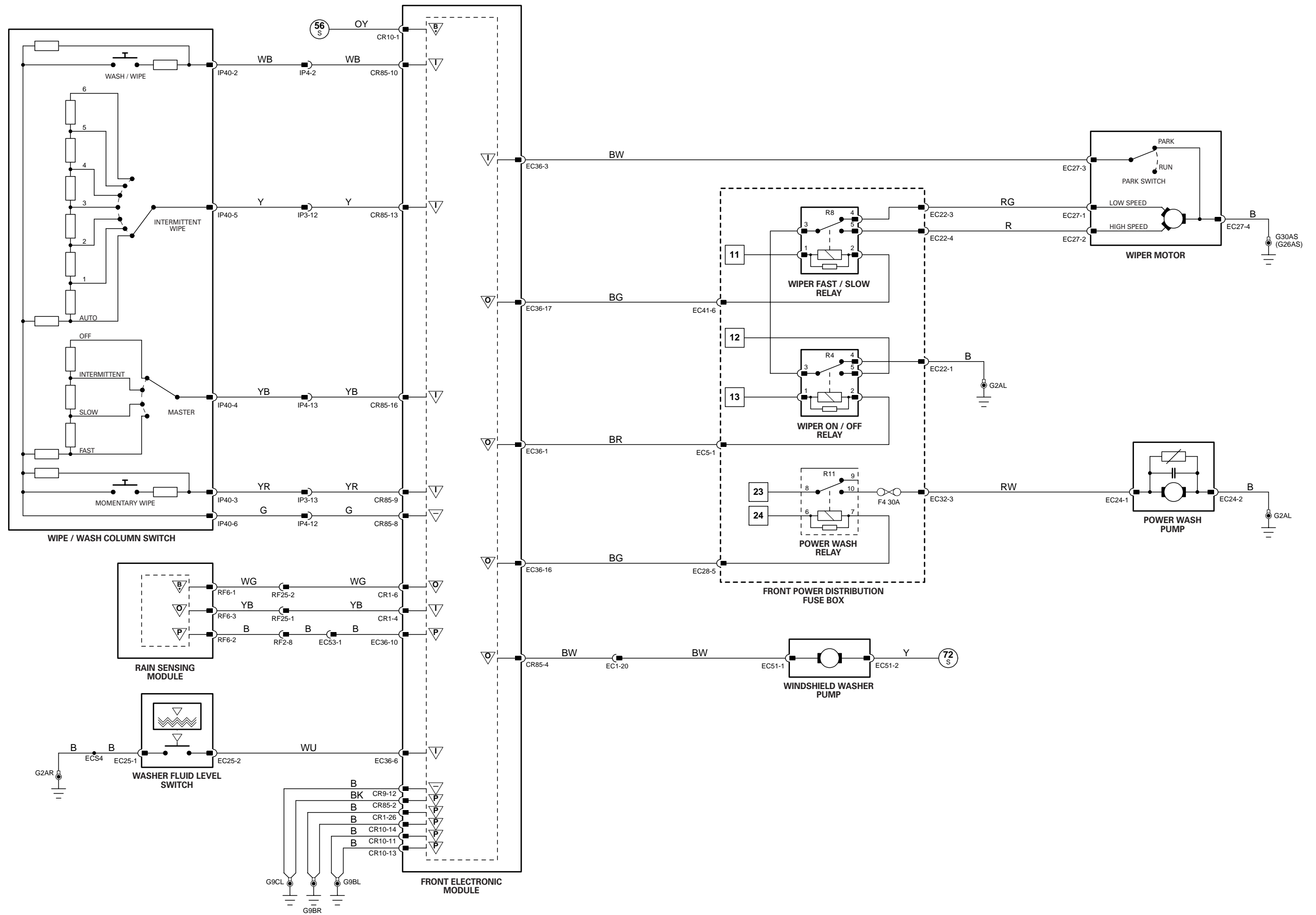


1 → 6	65 → 96	16 → 50	77 → 103
7 → 64	1 → 15	51 → 76	104 → 141

- ▽ Input
- ▽ Output
- ⊖ Battery Voltage
- ⊖ Power Ground
- ⊖ Sensor/Signal Supply V
- ⊖ Sensor/Signal Ground
- ⊖ ACP
- ⊖ SCP
- ⊖ CAN
- ⊖ Serial and Encoded Data

VARIANT: All Vehicles  
 VIN RANGE: All  
 DATE OF ISSUE: October 2002 (PROVISIONAL)





1 → 6 Fig. 01.1  
7 → 64 Fig. 01.2

65 → 96 Fig. 01.3  
1 → 15 Fig. 01.4

16 → 50 Fig. 01.5  
51 → 76 Fig. 01.6

77 → 103 Fig. 01.7  
104 → 141 Fig. 01.8

▽ Input  
▽ Output

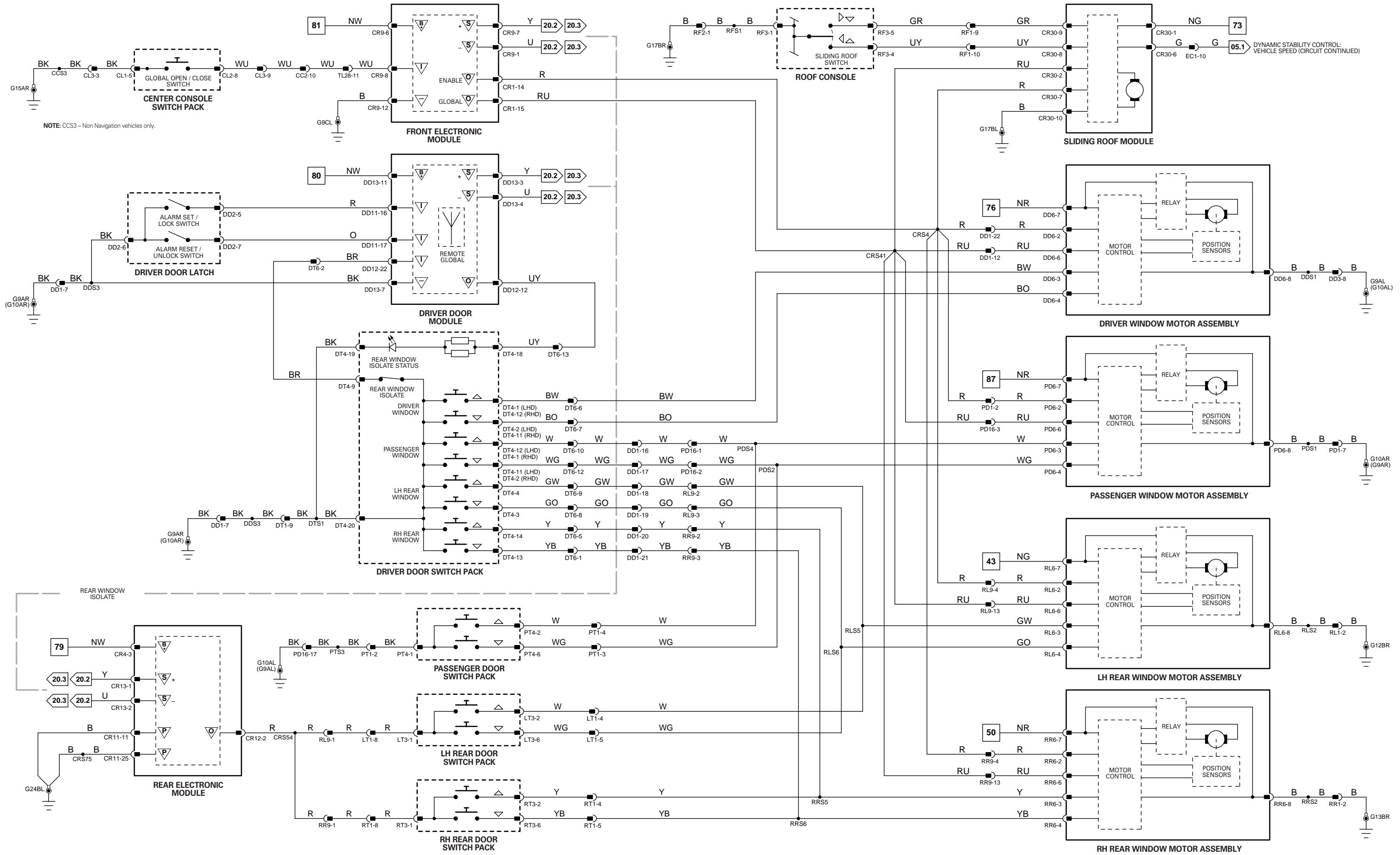
B Battery Voltage  
P Power Ground

▽ Sensor/Signal Supply V  
▽ Sensor/Signal Ground

A ACP S SCP  
C CAN D Serial and Encoded Data

VARIANT: All Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)





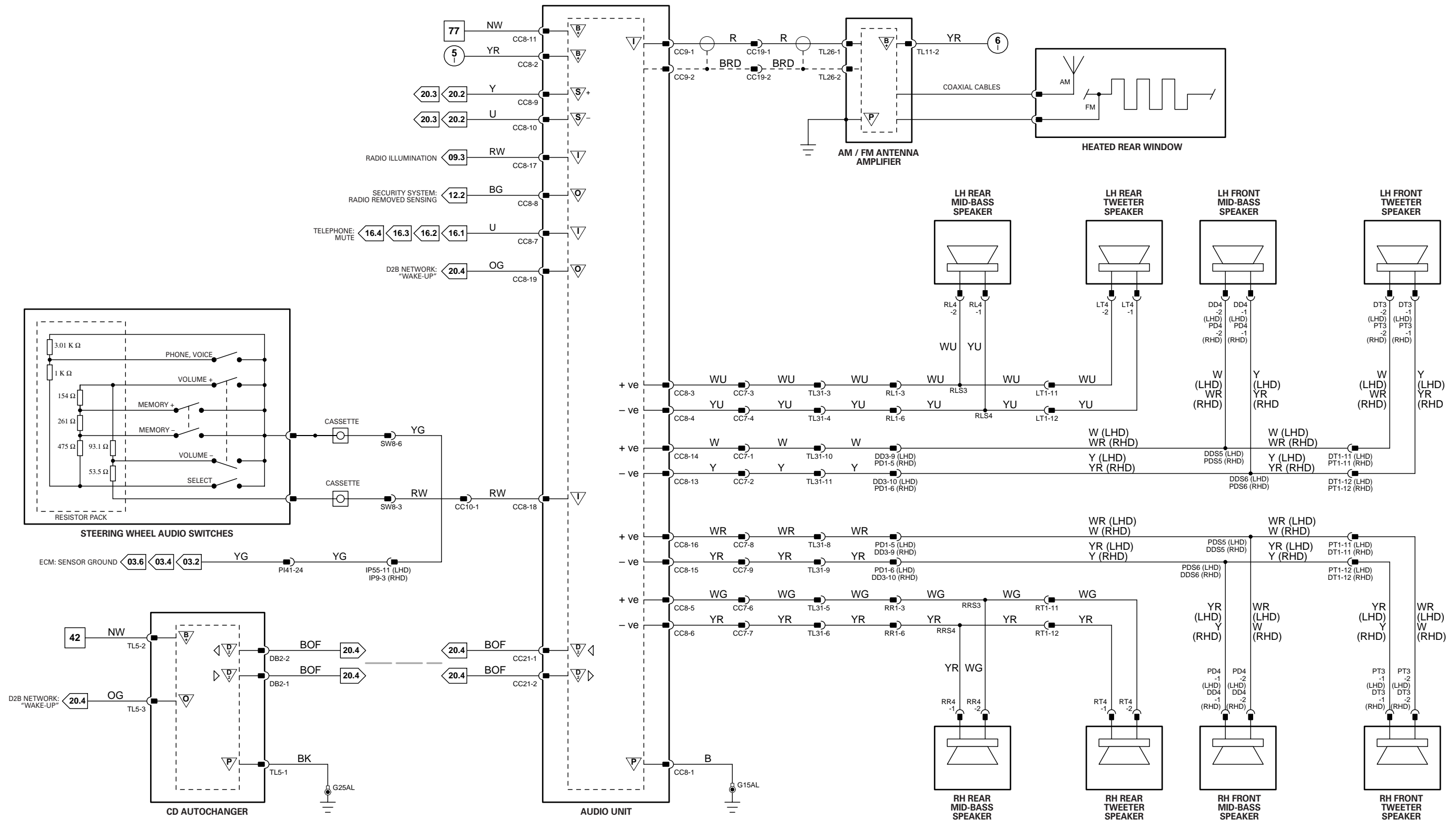
NOTE: CCS3 - Non Navigation vehicles only.

DYNAMIC STABILITY CONTROL: VEHICLE SPEED (CIRCUIT CONTINUED)

1 → 6	65 → 96	16 → 50	77 → 103	Input	B Battery Voltage	▽ Sensor/Signal Supply V	△ ACP	▽ SCP
7 → 64	1 → 15	51 → 76	104 → 141	▽ Output	P Power Ground	▽ Sensor/Signal Ground	C CAN	▽ Serial and Encoded Data

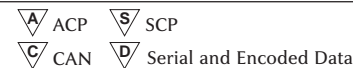
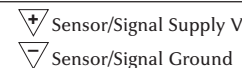
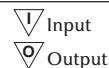
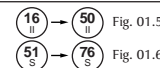
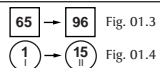
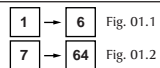
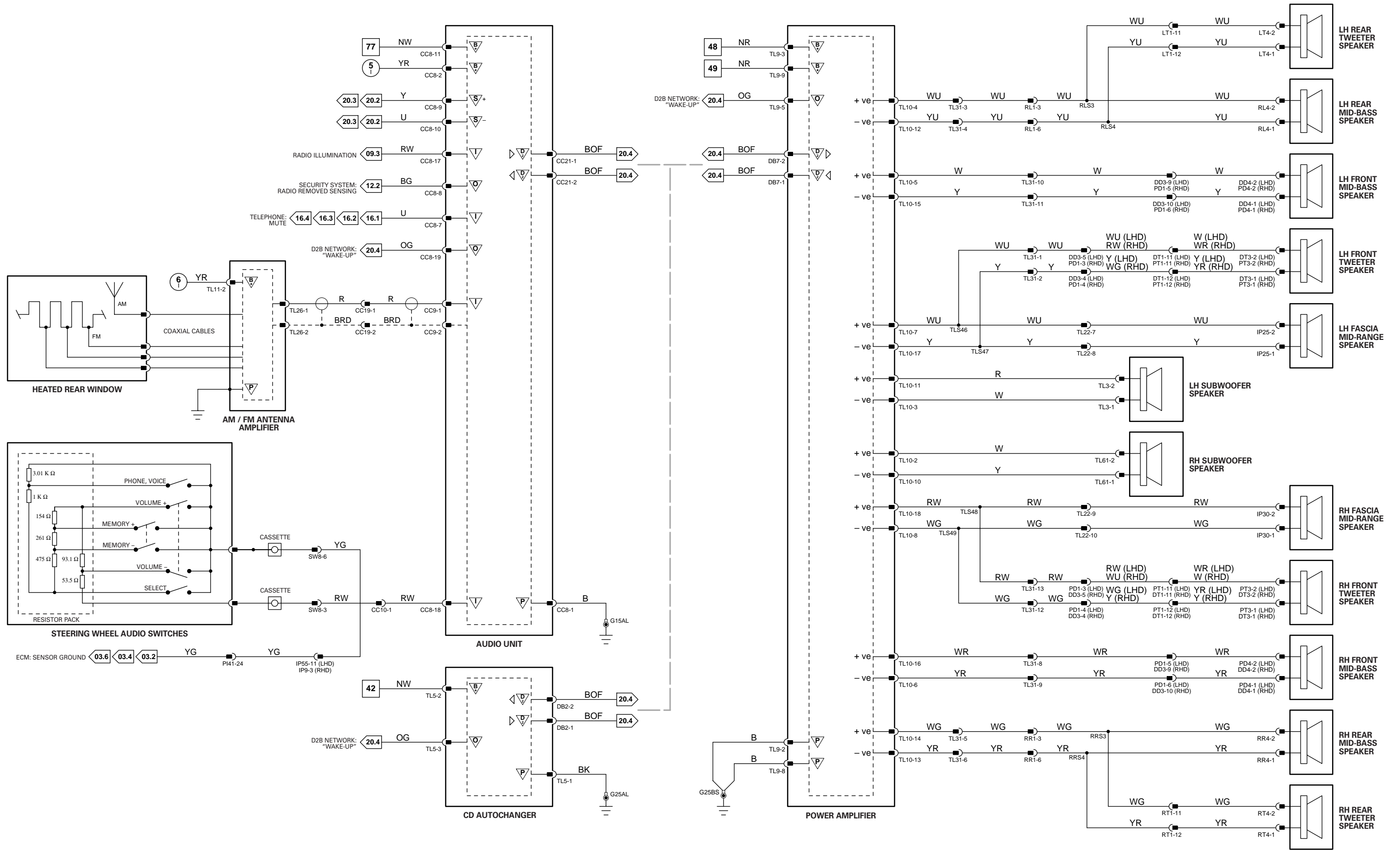
VARIANT: All Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)



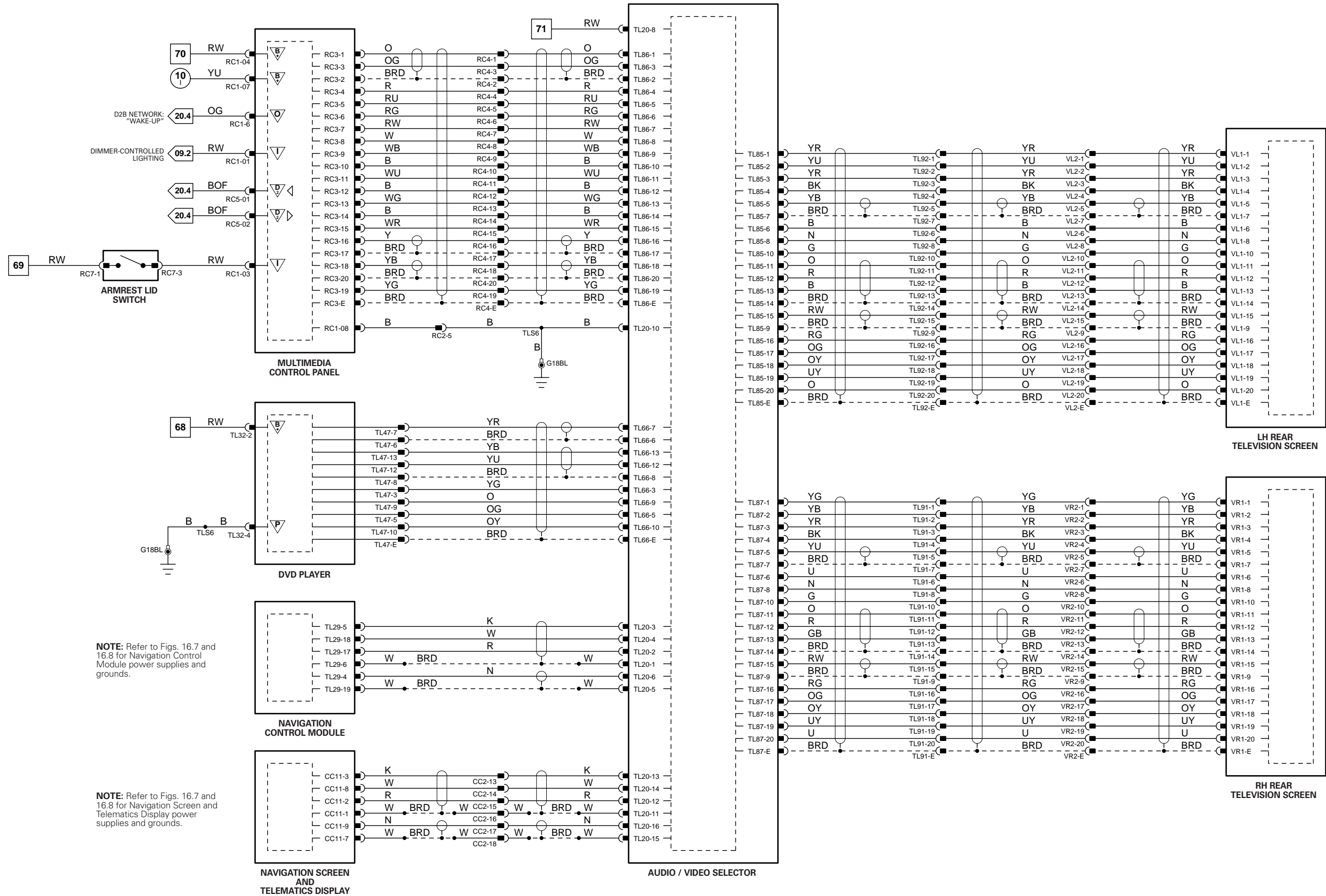


1 → 6 Fig. 01.1	65 → 96 Fig. 01.3	16 → 50 Fig. 01.5	77 → 103 Fig. 01.7	Input	B Battery Voltage	∇ Sensor/Signal Supply V	∇ ACP	∇ SCP
7 → 64 Fig. 01.2	1 → 15 Fig. 01.4	51 → 76 Fig. 01.6	104 → 141 Fig. 01.8	Output	P Power Ground	∇ Sensor/Signal Ground	∇ C CAN	∇ Serial and Encoded Data

VARIANT: Premium ICE Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)

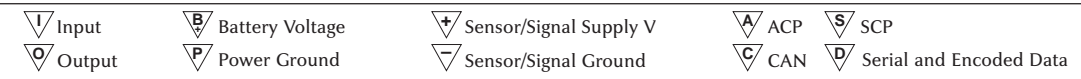
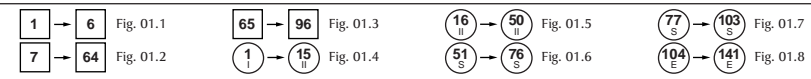


VARIANT: Audiophile ICE Vehicles  
 VIN RANGE: All  
 DATE OF ISSUE: October 2002 (PROVISIONAL)

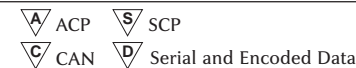
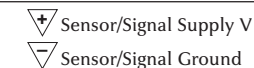
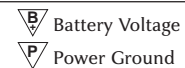
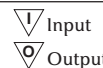
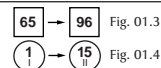
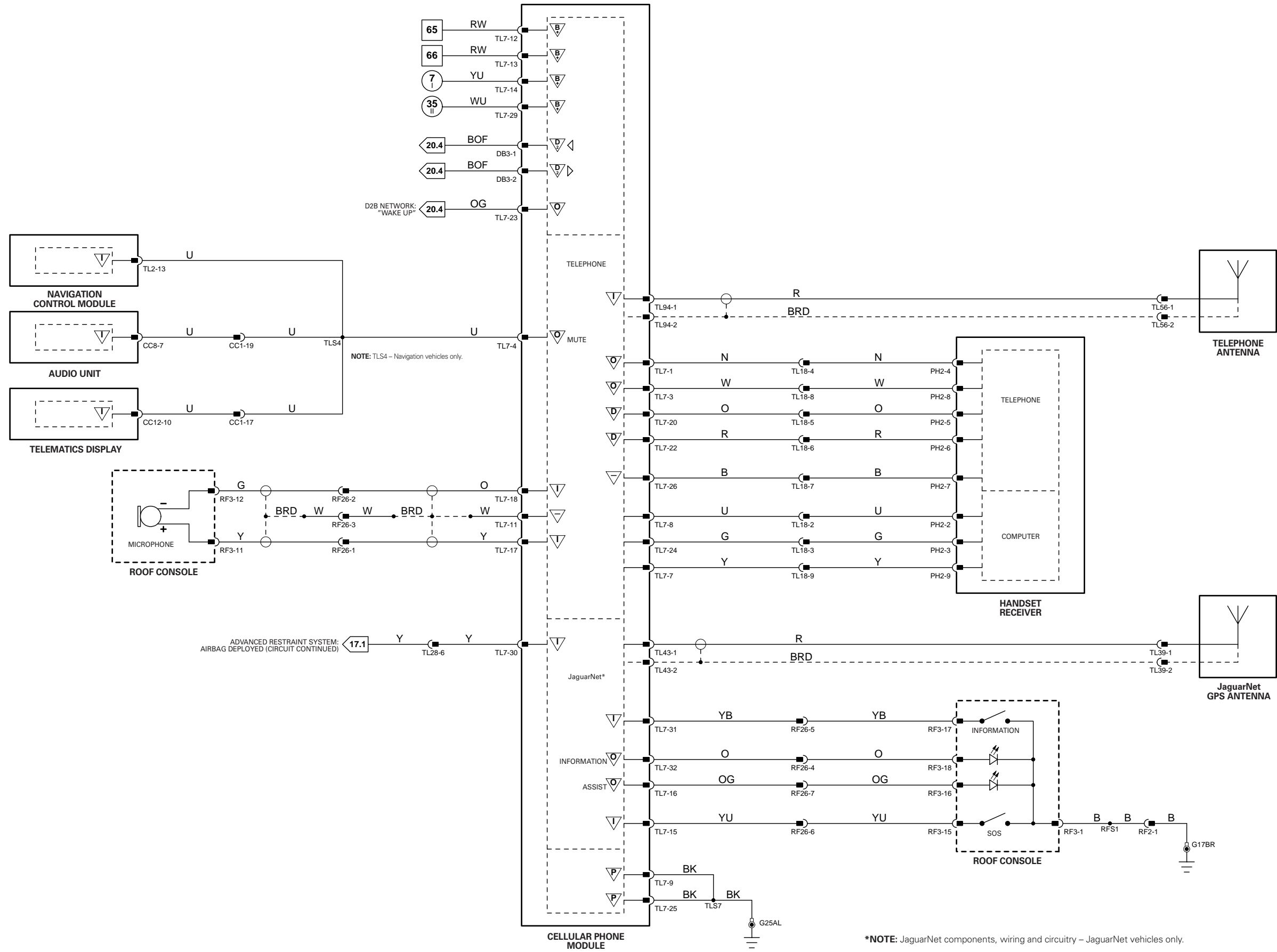


NOTE: Refer to Figs. 16.7 and 16.8 for Navigation Control Module power supplies and grounds.

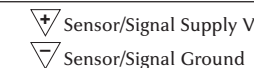
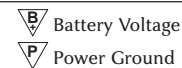
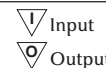
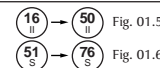
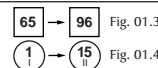
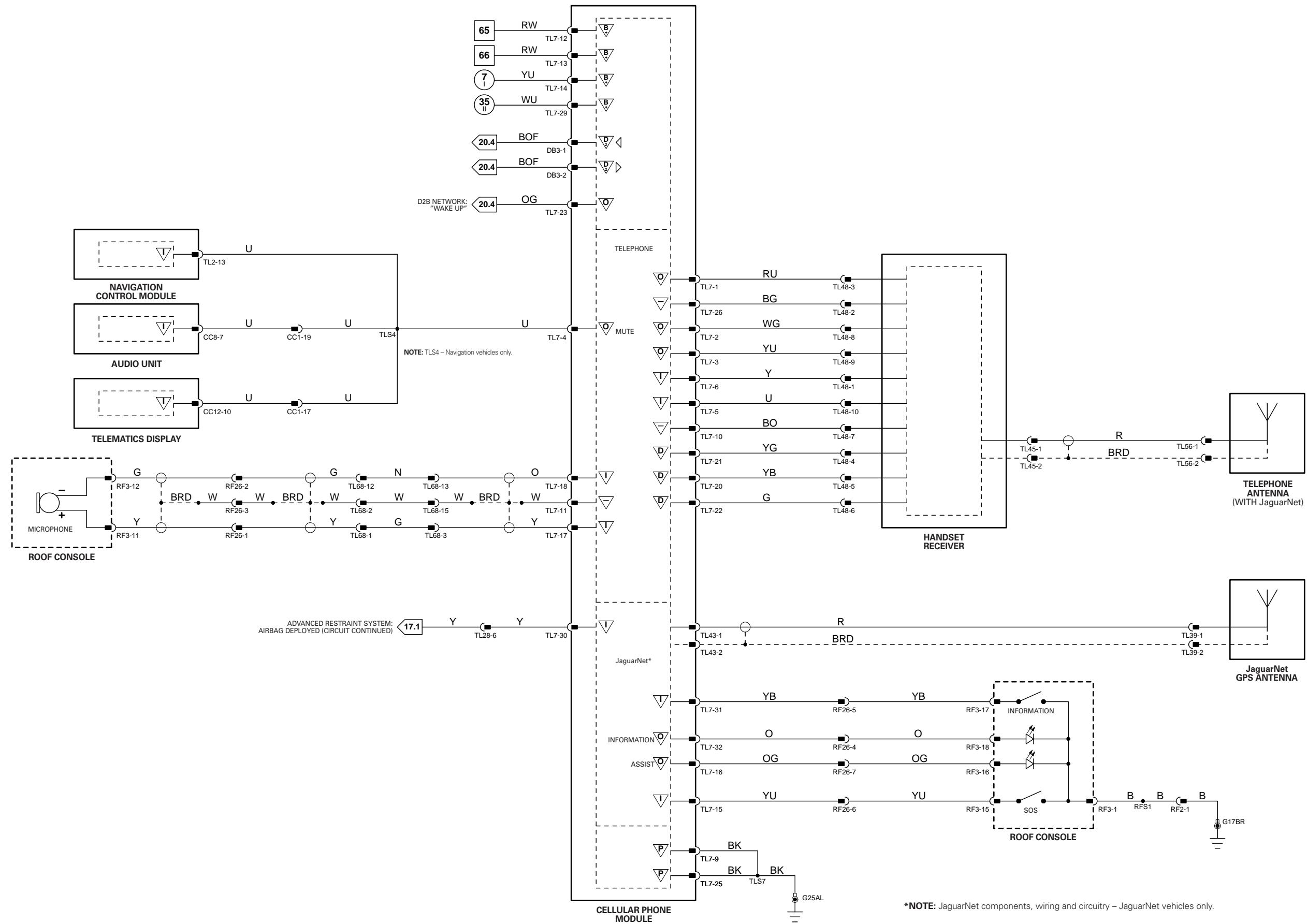
NOTE: Refer to Figs. 16.7 and 16.8 for Navigation Screen and Telematics Display power supplies and grounds.



VARIANT: Rear ICE Vehicles  
 VIN RANGE: All  
 DATE OF ISSUE: October 2002 (PROVISIONAL)

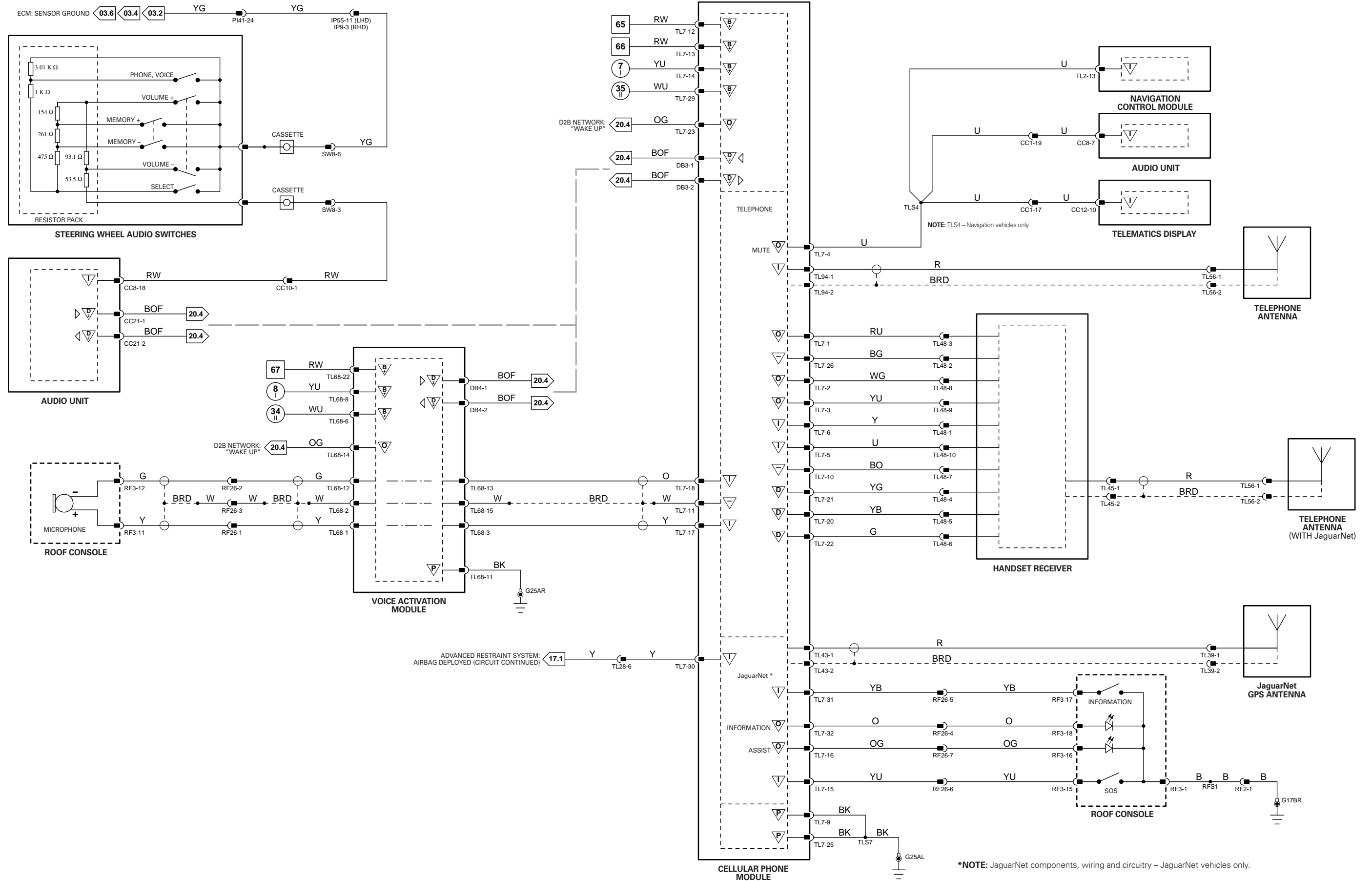


VARIANT: ROW Vehicles  
 VIN RANGE: All  
 DATE OF ISSUE: October 2002 (PROVISIONAL)



VARIANT: NAS Vehicles  
 VIN RANGE: All  
 DATE OF ISSUE: October 2002 (PROVISIONAL)



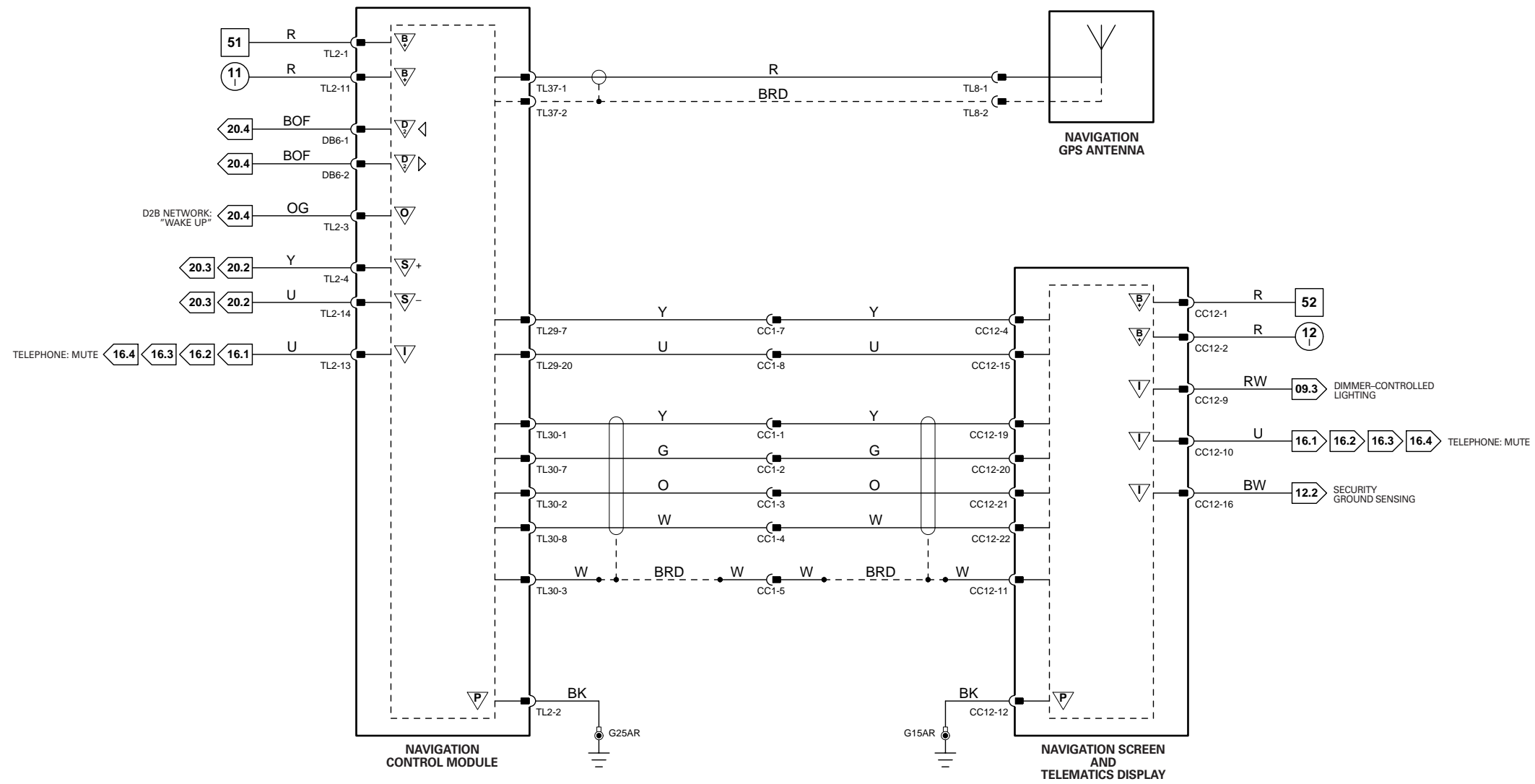


1 → 6	Fig. 01.1	65 → 96	Fig. 01.3	16 → 50	Fig. 01.5	77 → 103	Fig. 01.7
7 → 64	Fig. 01.2	1 → 15	Fig. 01.4	51 → 76	Fig. 01.6	104 → 141	Fig. 01.8

▽	Input	⊖	Battery Voltage	▽	Sensor/Signal Supply V	▽	ACP	▽	SCP
▽	Output	⊖	Power Ground	▽	Sensor/Signal Ground	▽	CAN	▽	Serial and Encoded Data

VARIANT: NAS Voice Vehicles  
 VIN RANGE: All  
 DATE OF ISSUE: October 2002 (PROVISIONAL)





1 → 6 Fig. 01.1  
7 → 64 Fig. 01.2

65 → 96 Fig. 01.3  
1 → 15 Fig. 01.4

16 → 50 Fig. 01.5  
51 → 76 Fig. 01.6

77 → 103 Fig. 01.7  
104 → 141 Fig. 01.8

▽ Input  
▽ Output

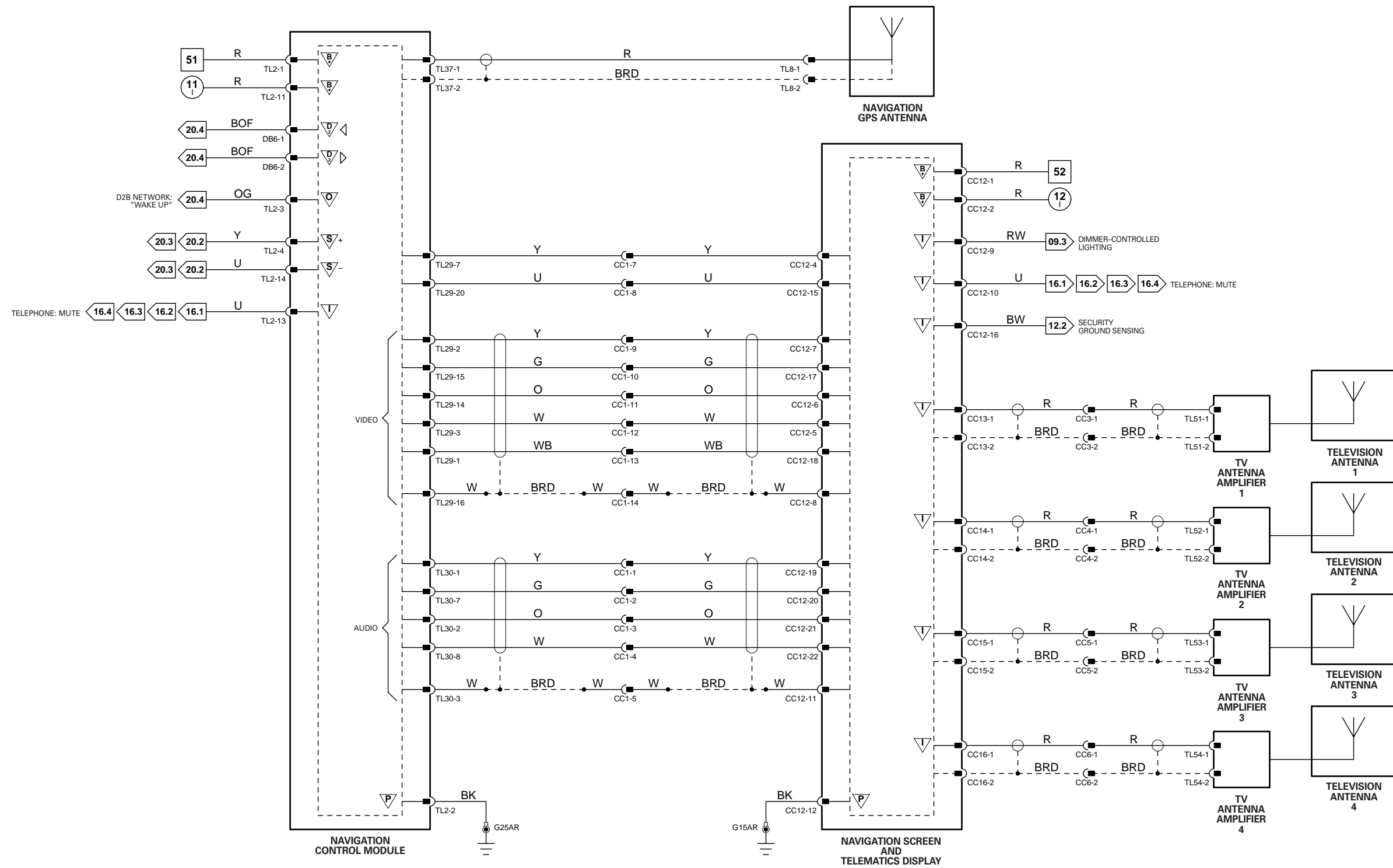
Ⓟ Battery Voltage  
Ⓟ Power Ground

▽ Sensor/Signal Supply V  
▽ Sensor/Signal Ground

Ⓟ ACP  
Ⓟ CAN  
Ⓟ SCP  
Ⓟ Serial and Encoded Data

VARIANT: Navigation Vehicles (except Japan)  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)





1 → 6 Fig. 01.1  
7 → 64 Fig. 01.2

65 → 96 Fig. 01.3  
1 → 15 Fig. 01.4

16 → 50 Fig. 01.5  
51 → 76 Fig. 01.6

77 → 103 Fig. 01.7  
104 → 141 Fig. 01.8

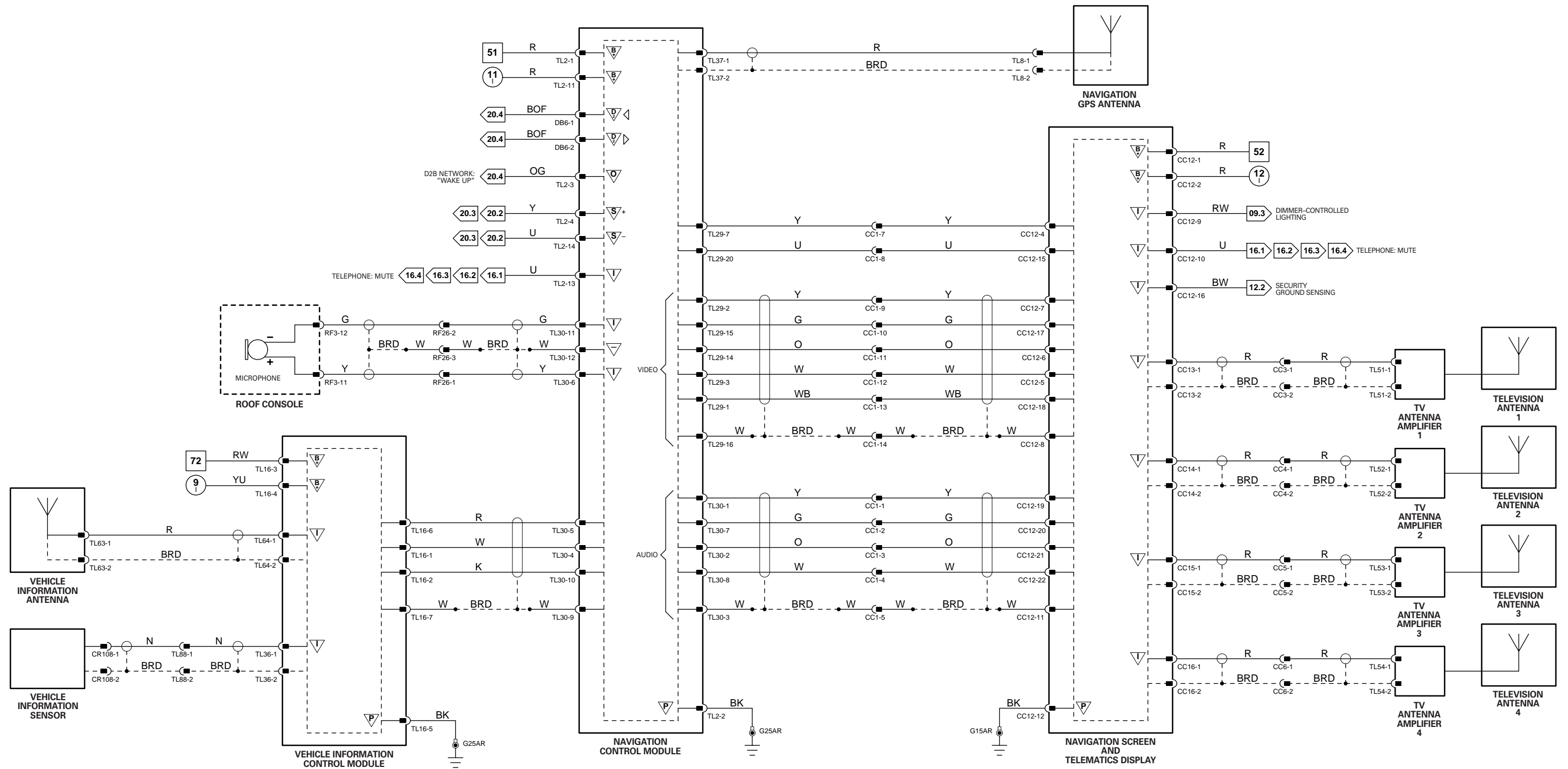
▽ Input  
▽ Output

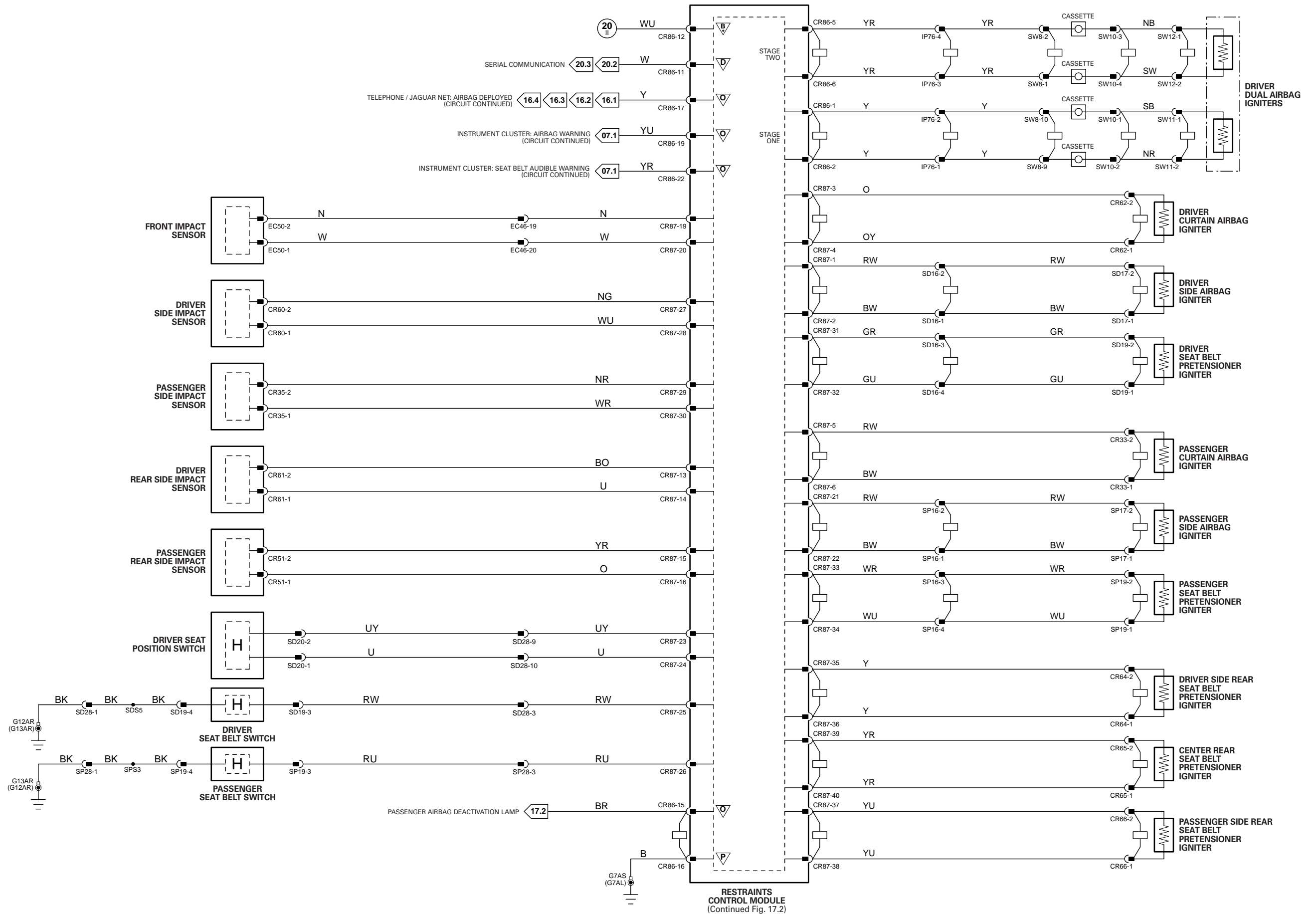
B Battery Voltage  
P Power Ground

▽ Sensor/Signal Supply V  
▽ Sensor/Signal Ground

A ACP  
C CAN  
S SCP  
D Serial and Encoded Data

VARIANT: Navigation Vehicles with TV (except Japan)  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)





1	→	6	Fig. 01.1
7	→	64	Fig. 01.2

65	→	96	Fig. 01.3
1	→	15	Fig. 01.4

16	→	50	Fig. 01.5
51	→	76	Fig. 01.6

77	→	103	Fig. 01.7
104	→	141	Fig. 01.8

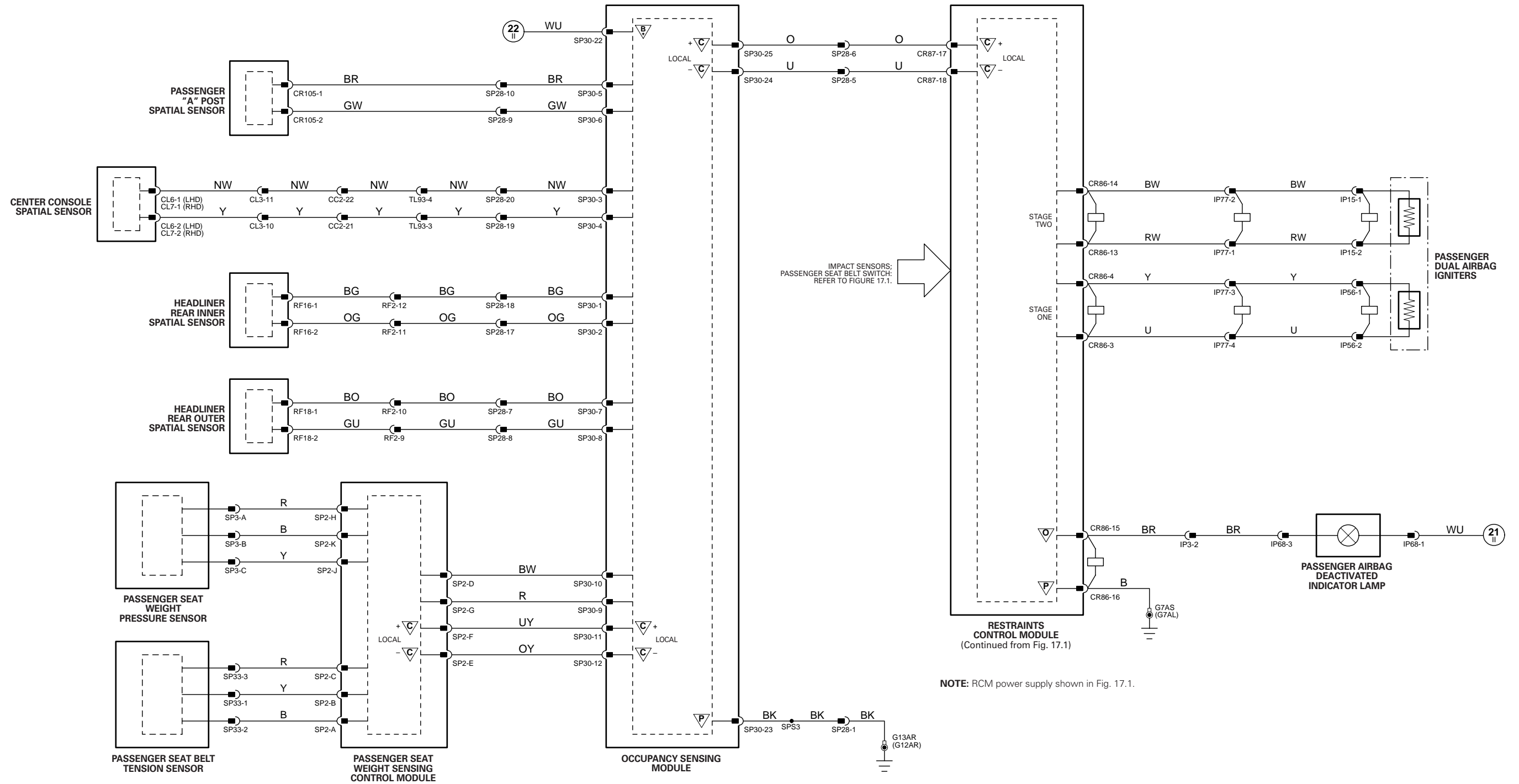
▽ Input  
▽ Output

Ⓟ Battery Voltage  
Ⓟ Power Ground

Ⓟ Sensor/Signal Supply V  
Ⓟ Sensor/Signal Ground

Ⓟ ACP  
Ⓟ SCP  
Ⓟ CAN  
Ⓟ Serial and Encoded Data

VARIANT: All Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)



1 → 6 Fig. 01.1  
7 → 64 Fig. 01.2

65 → 96 Fig. 01.3  
1 → 15 Fig. 01.4

16 → 50 Fig. 01.5  
51 → 76 Fig. 01.6

77 → 103 Fig. 01.7  
104 → 141 Fig. 01.8

▽ Input  
▽ Output

Ⓟ Battery Voltage  
Ⓟ Power Ground

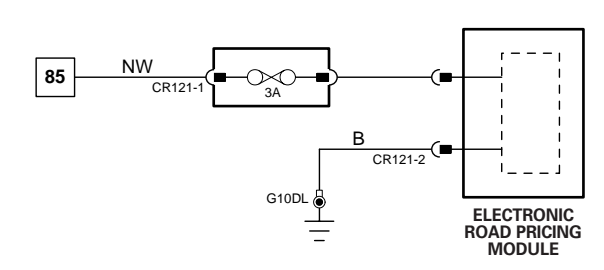
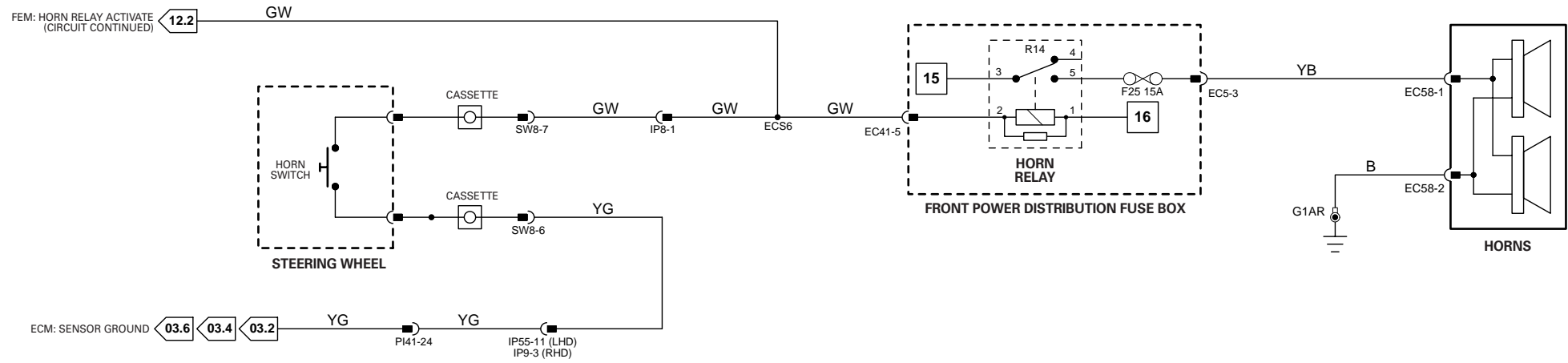
▽ Sensor/Signal Supply V  
▽ Sensor/Signal Ground

Ⓟ ACP Ⓟ SCP  
▽ CAN ▽ Serial and Encoded Data

VARIANT: All Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)

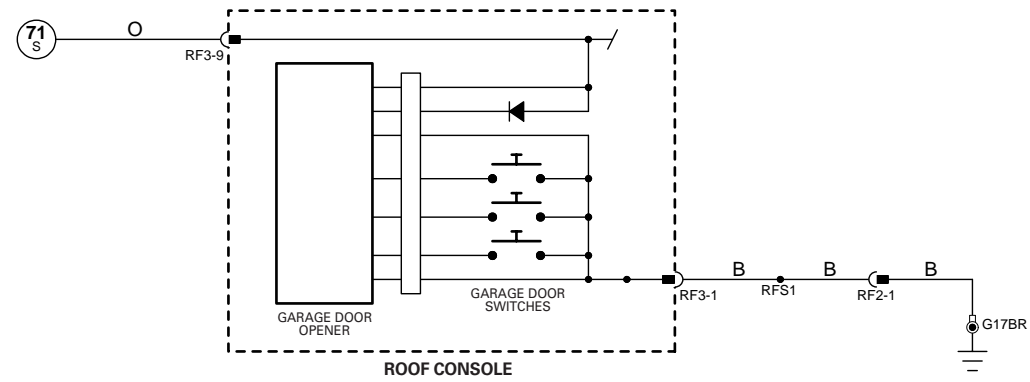




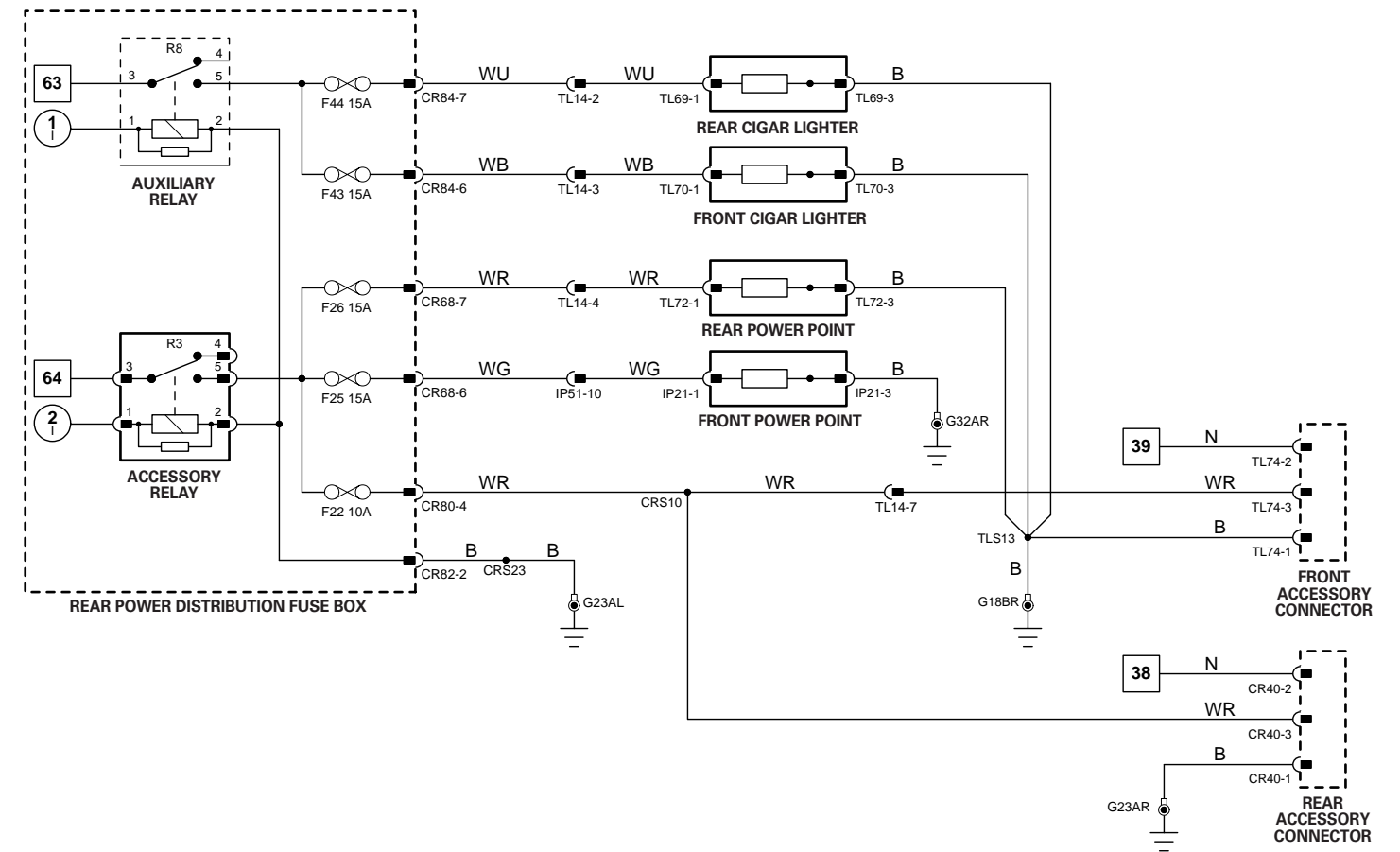


HORNS

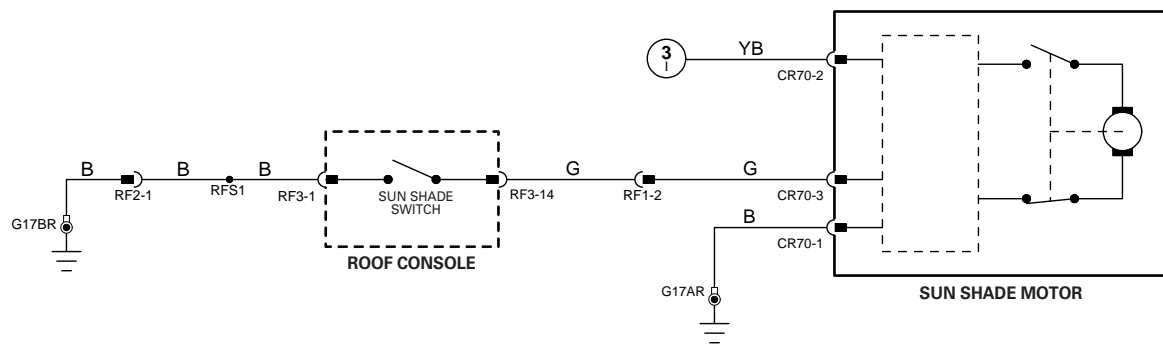
ELECTRONIC ROAD PRICING



GARAGE DOOR OPENER



CIGAR LIGHTERS, POWER POINTS, ACCESSORY CONNECTORS

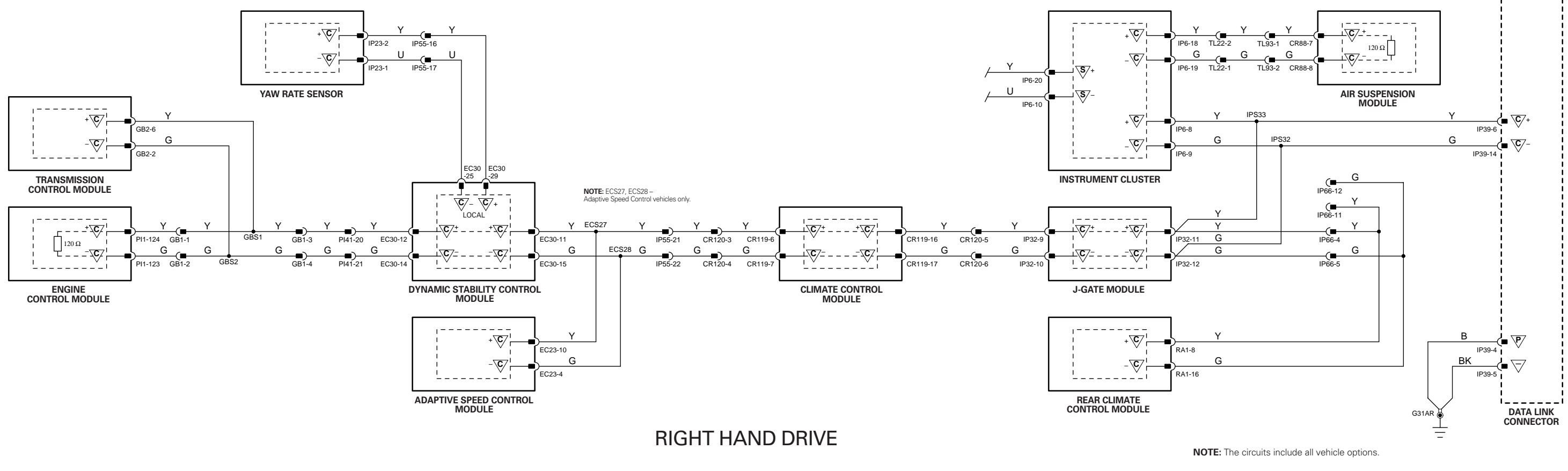
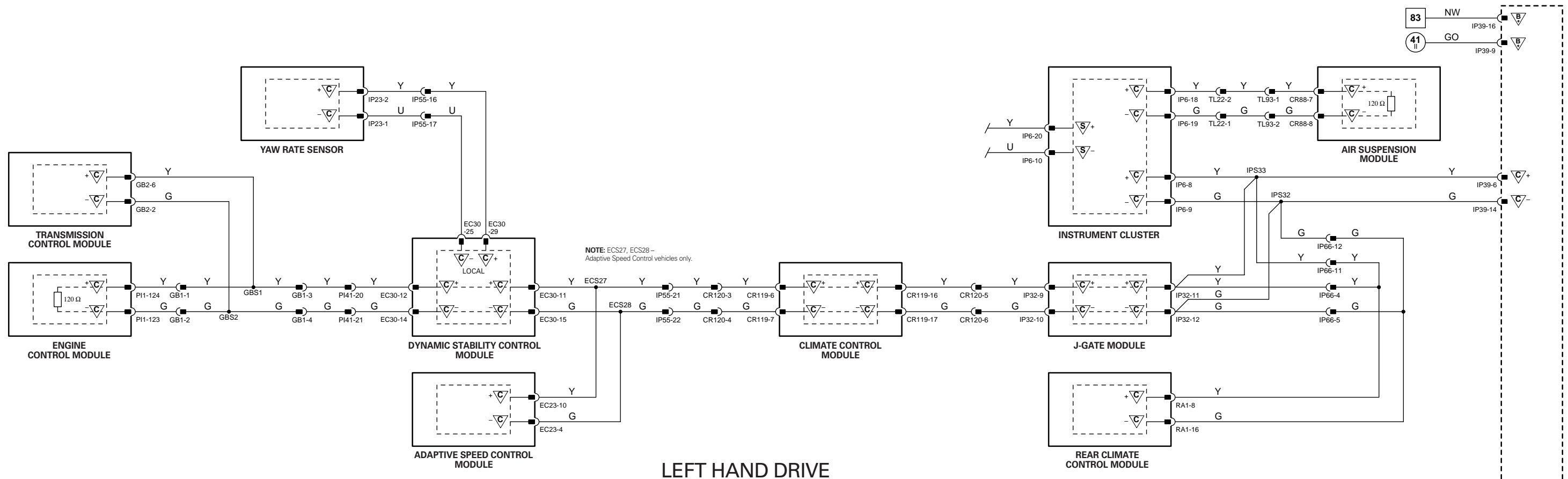


SUN SHADE

1 → 6	Fig. 01.1	65 → 96	Fig. 01.3	16 → 50	Fig. 01.5	77 → 103	Fig. 01.7
7 → 64	Fig. 01.2	1 → 15	Fig. 01.4	51 → 76	Fig. 01.6	104 → 141	Fig. 01.8

▽ Input	⊖ Battery Voltage	▽ Sensor/Signal Supply V	▽ ACP	▽ SCP
▽ Output	⊖ Power Ground	▽ Sensor/Signal Ground	▽ CAN	▽ Serial and Encoded Data

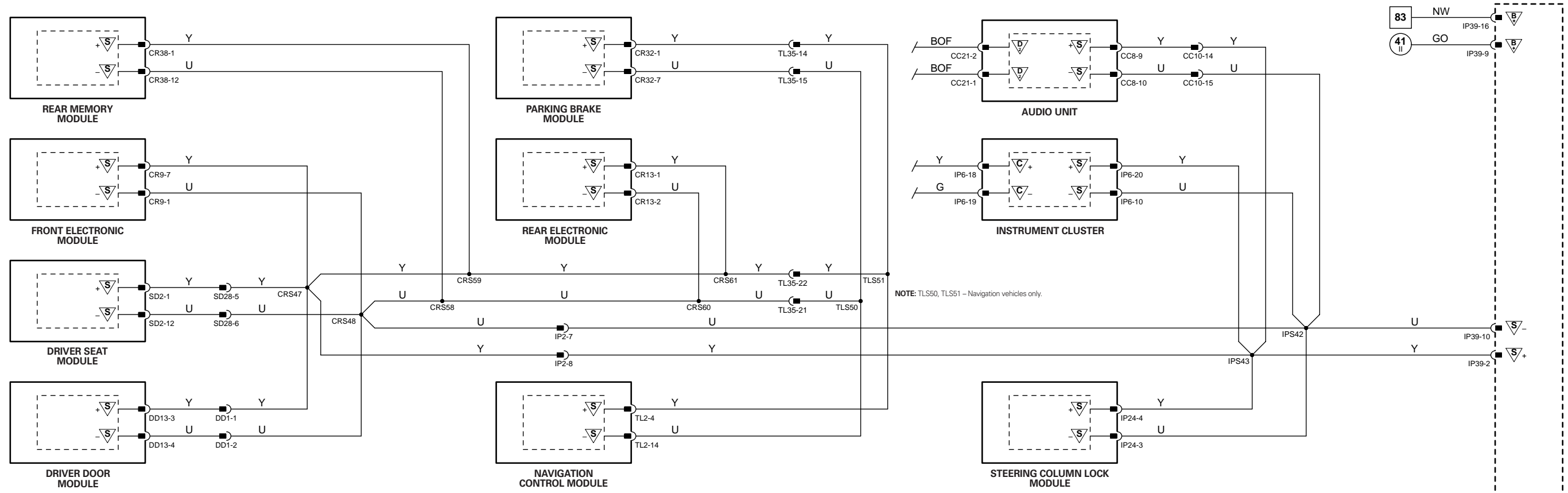
VARIANT: All Vehicles  
 VIN RANGE: All  
 DATE OF ISSUE: October 2002 (PROVISIONAL)



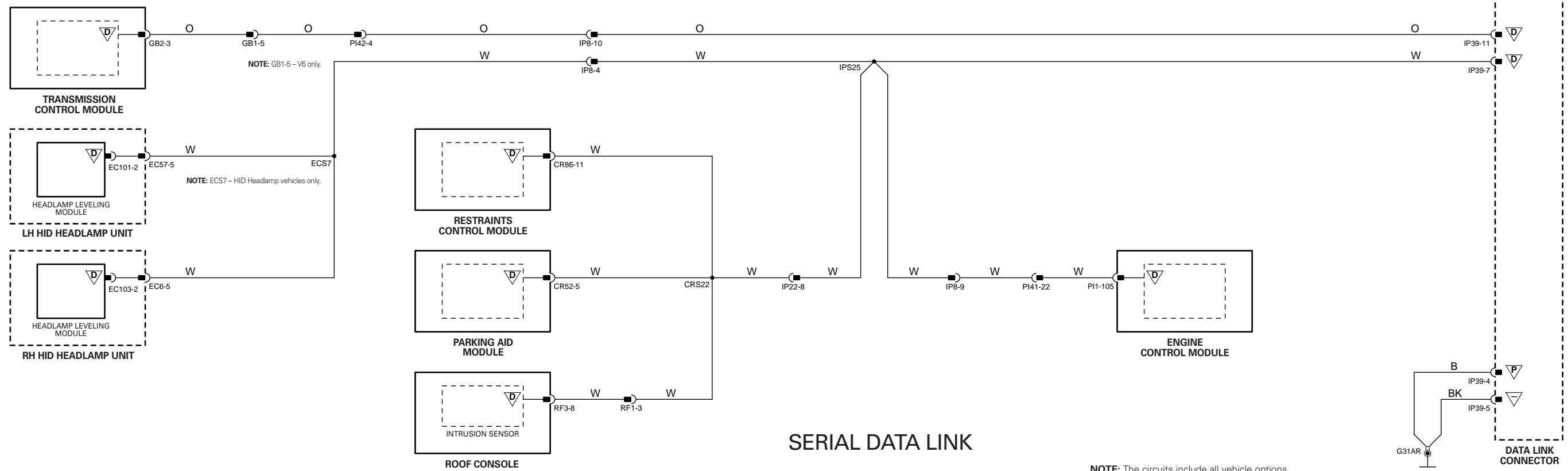
1 → 6 Fig. 01.1	65 → 96 Fig. 01.3	16 → 50 Fig. 01.5	77 → 103 Fig. 01.7	Input	B Battery Voltage	S Sensor/Signal Supply V	A ACP	S SCP
7 → 64 Fig. 01.2	1 → 15 Fig. 01.4	51 → 76 Fig. 01.6	104 → 141 Fig. 01.8	Output	P Power Ground	▽ Sensor/Signal Ground	C CAN	D Serial and Encoded Data

VARIANT: All Vehicles  
 VIN RANGE: All  
 DATE OF ISSUE: October 2002 (PROVISIONAL)



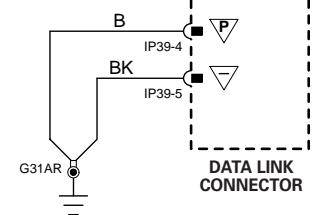


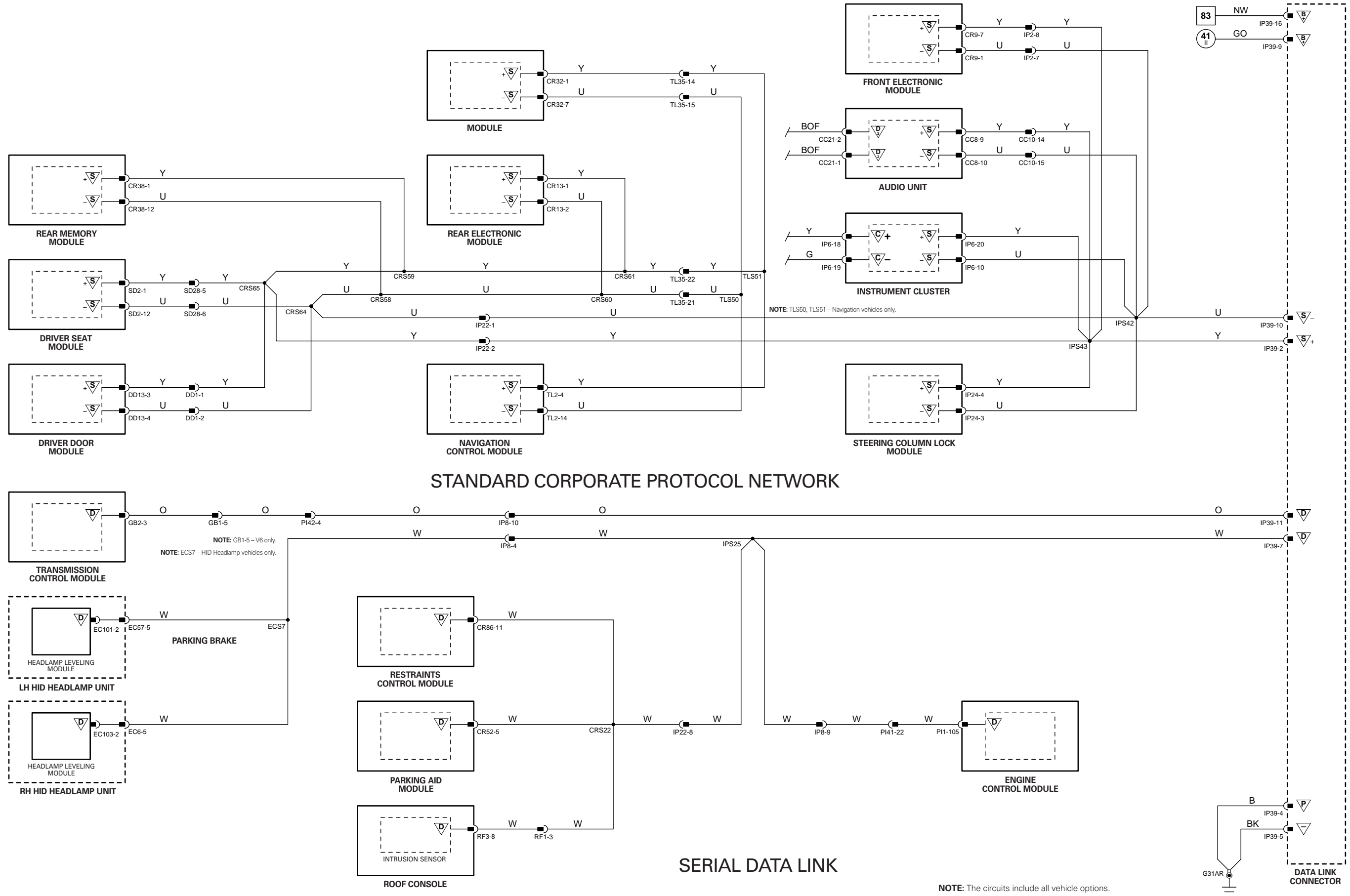
STANDARD CORPORATE PROTOCOL NETWORK



SERIAL DATA LINK

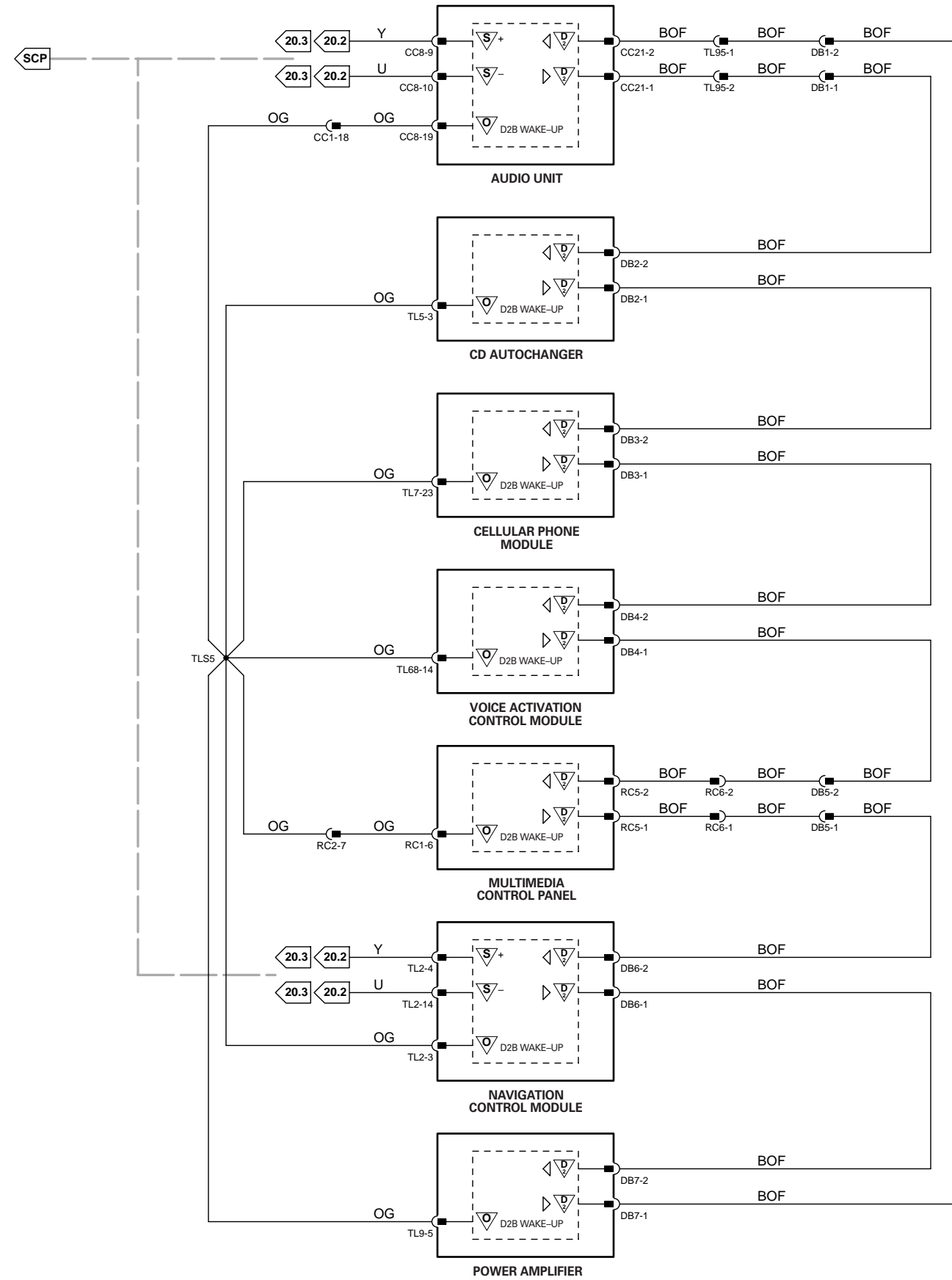
NOTE: The circuits include all vehicle options.





1 → 6	Fig. 01.1	65 → 96	Fig. 01.3	16 → 50	Fig. 01.5	77 → 103	Fig. 01.7	Input	B	Battery Voltage	S	Sensor/Signal Supply V	A	ACP	S	SCP
7 → 64	Fig. 01.2	1 → 15	Fig. 01.4	51 → 76	Fig. 01.6	104 → 141	Fig. 01.8	Output	P	Power Ground	G	Sensor/Signal Ground	C	CAN	D	Serial and Encoded Data

VARIANT: RHD Vehicles  
VIN RANGE: All  
DATE OF ISSUE: October 2002 (PROVISIONAL)



**NOTES:**

The 7-module D2B network shown depicts the greatest number of modules available. D2B networks containing less than 7 modules are always connected in the sequence shown from top to bottom.

- Audio Unit – Master Module
- 1 – CD Autochanger
  - 2 – Cellular Phone Module
  - 3 – Voice Activation Module
  - 4 – Multimedia Control Panel
  - 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 7 modules has a unique fiber optic and "wake up" circuit.

For D2B network diagnostics via SCP – refer to Figs. 20.2 and 20.3.

1 → 6	Fig. 01.1	65 → 96	Fig. 01.3	16 → 50	Fig. 01.5	77 → 103	Fig. 01.7
7 → 64	Fig. 01.2	1 → 15	Fig. 01.4	51 → 76	Fig. 01.6	104 → 141	Fig. 01.8

	Input		Battery Voltage		Sensor/Signal Supply V		ACP		SCP
	Output		Power Ground		Sensor/Signal Ground		CAN		Serial and Encoded Data

VARIANT: All Vehicles  
 VIN RANGE: All  
 DATE OF ISSUE: October 2002 (PROVISIONAL)