

**Fig. 20.1****COMPONENTS**

Component	Connector(s)	Connector Description	Location
AIR SUSPENSION MODULE	CR88	9-WAY / BLACK	CABIN REAR BULKHEAD / BEHIND REAR SEAT BACK / RH SIDE
	CR89	12-WAY / BLACK	
	CR90	15-WAY / BLACK	
	CR91	18-WAY / BLACK	
	CR119	22-WAY / BLACK	
CLIMATE CONTROL MODULE	AC100	16-WAY / BLACK	CLIMATE CONTROL UNIT / DRIVER SIDE
	AC101	26-WAY / BLACK	
	IP39	DATA LINK CONNECTOR	
	IP39	DATA LINK CONNECTOR	
DATA LINK CONNECTOR	IP39	DATA LINK CONNECTOR	TRANSMISSION TUNNEL / DRIVER SIDE
DYNAMIC STABILITY CONTROL MODULE	EC30	47-WAY / BLACK	ENGINE COMPARTMENT, RH FRONT
ELECTRIC PARK BRAKE	CR32	12-WAY / GREY	LUGGAGE COMPARTMENT, RH REAR
	CR50	4-WAY / BLACK	
ENGINE CONTROL MODULE	EC300	58-WAY / BLACK	FRONT BULKHEAD, PASSENGER SIDE
	PI300	96-WAY / BLACK	
FUEL-FIRED AUXILIARY HEATER MODULE	FF1	8-WAY / BLACK	BELOW LH HEADLAMP ASSEMBLY
	FF2	2-WAY / BLACK	
	FF3		
INSTRUMENT CLUSTER	IP5	22-WAY / GREY	INSTRUMENT PANEL
	IP6	20-WAY / BLACK	
	IP7	22-WAY / BLACK	
J-GATE MODULE	IP32	16-WAY / BLACK	J-GATE ASSEMBLY
POWERTRAIN CONTROL MODULE	C98	48-WAY / BROWN	FRONT BULKHEAD, PASSENGER SIDE
	C99	48-WAY / GREY	
	EC066	48-WAY / BLACK	
	RA1	16-WAY / BLACK	
REAR CLIMATE CONTROL MODULE	RA2	12-WAY / BLACK	REAR CENTER CONSOLE
SPEED CONTROL MODULE	IP78	30-WAY YELLOW	BEHIND INSTRUMENT PANEL, DRIVER SIDE
TRANSMISSION CONTROL MODULE	GB2	16-WAY / BLACK	TRANSMISSION CONTROL VALVE ASSEMBLY
TIRE PRESSURE MONITORING SYSTEM MODULE	CR93	16-WAY / GREY	LUGGAGE COMPARTMENT, RH REAR
YAW RATE SENSOR	CR94	16-WAY / BLUE	CENTER CONSOLE / REARWARD OF J GATE
	CR96	SMB RF COAX CONNECTOR	
	IP23	6-WAY / BLACK	

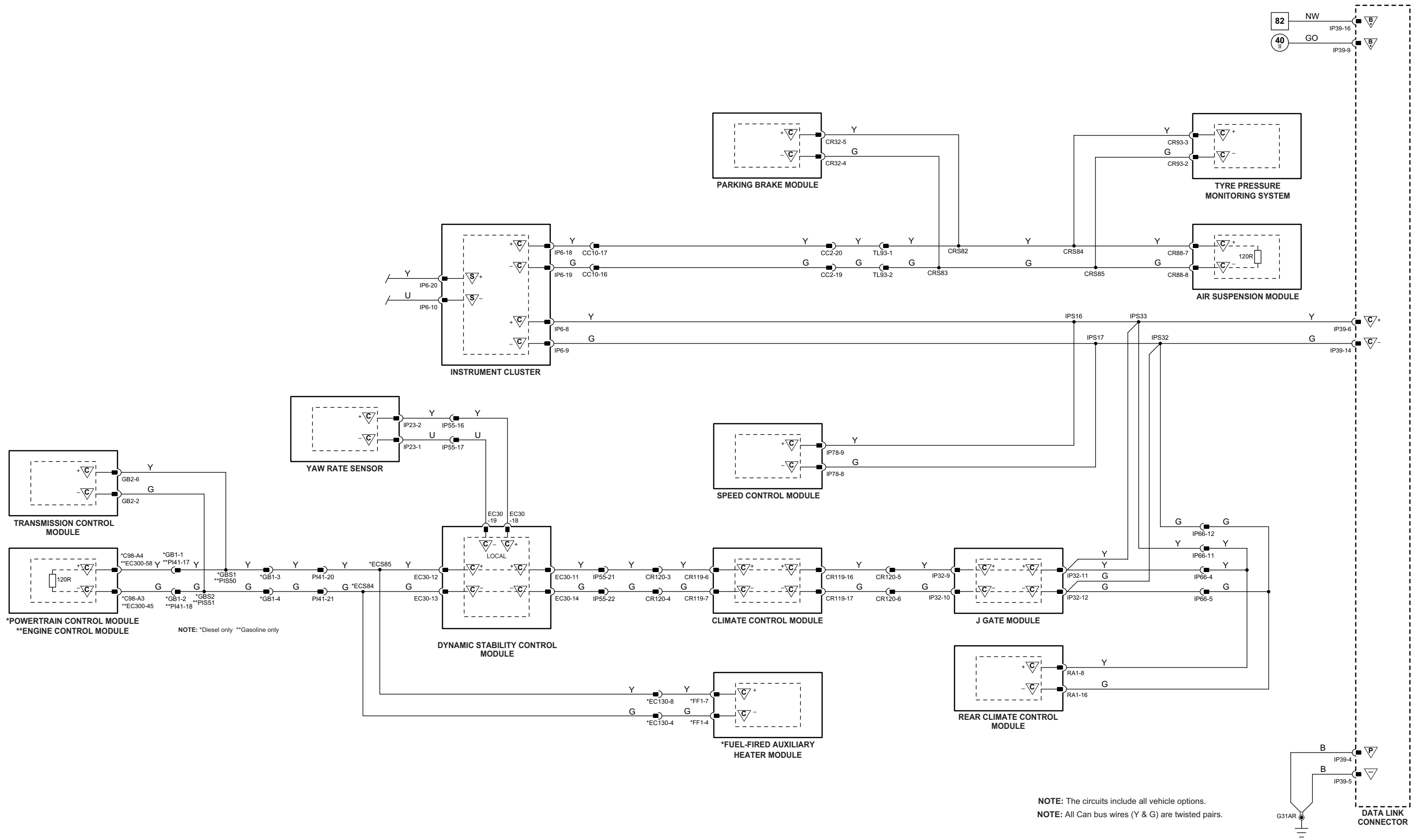
**HARNESS IN-LINE CONNECTORS**

Connector	Connector Description / Location	Location
CC2	22-WAY / BLACK / TELEMATICS HARNESS TO CENTER CONSOLE HARNESS	CABIN / BELOW CENTER CONSOLE
CC10	22-WAY / GREEN / CENTER CONSOLE HARNESS TO INSTRUMENT PANEL HARNESS	CABIN / BELOW CENTER CONSOLE, LH SIDE (LHD), RH SIDE (RHD)
CR120	8-WAY / BLACK / CABIN HARNESS TO INSTRUMENT PANEL HARNESS	CABIN / BEHIND INSTRUMENT PANEL / LH SIDE
EC130	8-WAY / GREY / CABIN HARNESS TO FUEL FIRED HEATER LINK HARNESS	LOWER FRONT RIGHT
GB1	16-WAY / GREY / ENGINE HARNESS TO TRANSMISSION HARNESS	ADJACENT TO TRANSMISSION BELL HOUSING
IP55	22-WAY / BLACK / ENGINE COMPARTMENT HARNESS TO INSTRUMENT PANEL HARNESS	CABIN / RH 'A' POST
IP66	14-WAY / GREY / INSTRUMENT PANEL HARNESS TO REAR AIR CONDITIONING HARNESS	CABIN / BELOW CENTER CONSOLE
PI41	42-WAY / BLACK / ENGINE HARNESS TO ENGINE COMPARTMENT HARNESSES	ENGINE COMPARTMENT / TOP OF SUSPENSION TOWER / PASSENGER SIDE
TL93	8-WAY / BLACK / CENTER CONSOLE HARNESS TO TELEMATICS HARNESS	CABIN / BELOW REAR CENTER CONSOLE

**GROUNDS**

Ground	Location
G31	CABIN / BEHIND PASSENGER AIR BAG

Refer to the front of this book for detailed information and illustrations regarding the location and identification of harnesses, relays, fuses, grounds, control modules and control module pins.



NOTE: The circuits include all vehicle options.  
 NOTE: All Can bus wires (Y & G) are twisted pairs.

1 → 6 Fig. 01.1	64 → 95 Fig. 01.3	16 → 52 Fig. 01.5	78 → 105 Fig. 01.7	Input	Battery Voltage	Sensor/Signal Supply V	ACP	SCP
7 → 63 Fig. 01.2	1 → 15 Fig. 01.4	53 → 77 Fig. 01.6	106 → 143 Fig. 01.8	Output	Power Ground	Sensor/Signal Ground	CAN	Serial and Encoded Data

VARIANT: All Vehicles  
 VIN RANGE: All  
 DATE OF ISSUE: April 2006

**Fig. 20.2****COMPONENTS**

Component	Connector(s)	Connector Description	Location
AUDIO UNIT	CC8	20-WAY / BLACK	CENTER CONSOLE
	CC9	2-WAY / BLACK	
	CC21	FIBER OPTIC CONNECTOR	
DATA LINK CONNECTOR	IP39	16-WAY / BLACK	TRANSMISSION TUNNEL / DRIVER SIDE
	DD11	20-WAY / BLACK	
	DD12	26-WAY / BLACK	
DRIVER DOOR MODULE	DD13	26-WAY / NATURAL	DRIVER DOOR
	SD2	22-WAY / BLACK	
DRIVER SEAT MODULE	SD3	6-WAY / BLACK	UNDER DRIVER SEAT
	SD4	6-WAY / BLACK	
	SD24	4-WAY / BLACK	
	SD26	4-WAY / BLACK	
	SD27	6-WAY / BLACK	
	EC30	47-WAY / BLACK	
	EC27	6-WAY / BLACK	
DYNAMIC STABILITY CONTROL MODULE	CR1	26-WAY / BLACK	ENGINE COMPARTMENT, RH FRONT
	CR9	12-WAY / BLACK	
	CR10	17-WAY / BLACK	
	CR85	20-WAY / BLACK	
	CR85	20-WAY / BLACK	
FRONT ELECTRONIC MODULE	FF1	8-WAY / BLACK	BELOW LH HEADLAMP ASSEMBLY
	FF2	2-WAY / BLACK	
FUEL-FIRED AUXILIARY HEATER MODULE	FF3		BELOW LH HEADLAMP ASSEMBLY
	EC57	9-WAY / BLACK	
	EC6	9-WAY / BLACK	
HID HEADLAMP UNIT – LH	IP5	22-WAY / GREY	ENGINE COMPARTMENT / LH FRONT
HID HEADLAMP UNIT – RH	IP6	20-WAY / BLACK	ENGINE COMPARTMENT / RH FRONT
INSTRUMENT CLUSTER	IP7	22-WAY / BLACK	INSTRUMENT PANEL
	IP6	20-WAY / BLACK	
NAVIGATION CONTROL MODULE	DB6	FIBER OPTIC CONNECTOR	TRUNK / LH SIDE / MODULE STACK / SECOND FROM TOP
	TL2	20-WAY / BLACK	
	TL29	26-WAY / BLACK	
	TL30	12-WAY / BLACK	
	TL37	2-WAY / BLACK	
	CR52	26-WAY / BLACK	
	CR4	20-WAY / BLACK	
PARKING AID MODULE	CR11	26-WAY / NATURAL	TRUNK / SPARE WHEEL WELL
REAR ELECTRONIC MODULE	CR12	12-WAY / BLACK	TRUNK / RH REAR
	CR13	22-WAY / BLACK	
	CR71	17-WAY / BLACK	
	CR73	4-WAY / BLACK	
	CR21	4-WAY / BLACK	
	CR37	26-WAY / BLACK	
	CR38	22-WAY / BLACK	
	CR41	6-WAY / BLACK	
	CR53	4-WAY / BLACK	
	CR59	6-WAY / BLACK	
REAR MEMORY MODULE	CR86	24-WAY / BLACK	REAR BULKHEAD / BEHIND REAR SEAT BACK
	CR87	40-WAY / BLACK	
RESTRAINTS CONTROL MODULE	CR87	40-WAY / BLACK	TRANSMISSION TUNNEL, UNDER CENTER CONSOLE
ROOF CONSOLE	RF3	20-WAY / BLACK	ROOF HEADLINER
STEERING COLUMN LOCK MODULE	IP24	4-WAY / BLACK	UPPER STEERING COLUMN

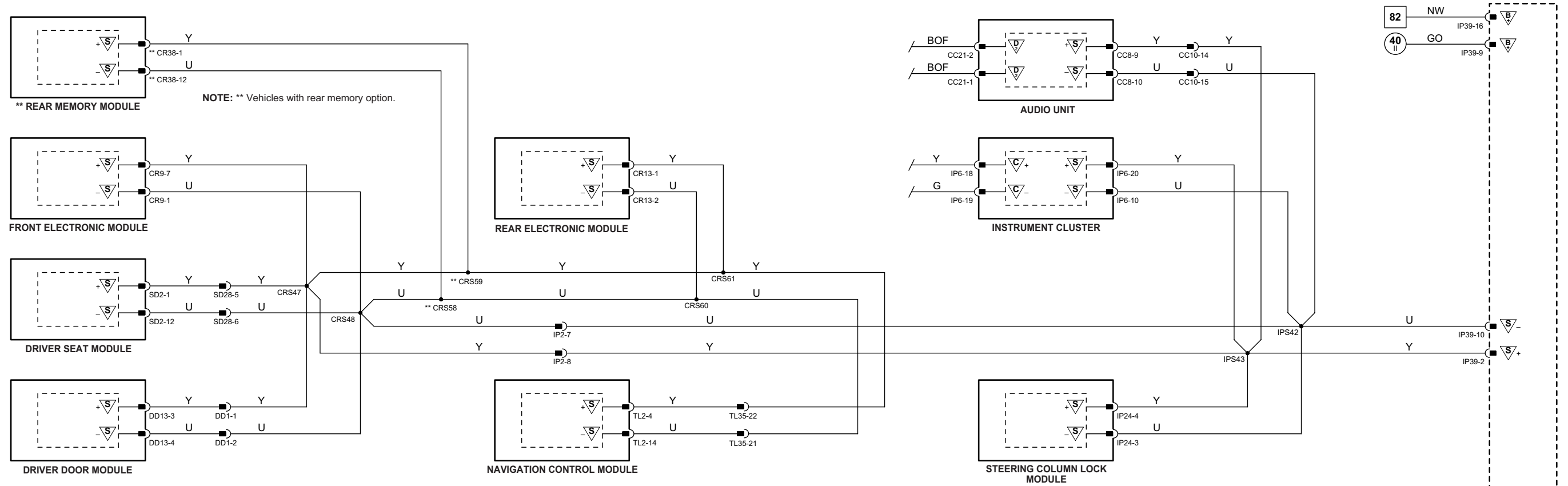
**HARNES IN-LINE CONNECTORS**

Connector	Connector Description / Location	Location
CC10	22-WAY / GREEN / CENTER CONSOLE HARNESS TO INSTRUMENT PANEL HARNESS	CABIN / BELOW CENTER CONSOLE / LH SIDE (LHD), RH SIDE (RHD)
DD1	22-WAY / BLACK / CABIN HARNESS TO DRIVER DOOR HARNESS	CABIN / DRIVER SIDE 'A' POST
EC130	8-WAY / GREY / CABIN HARNESS TO FUEL FIRED HEATER LINK HARNESS	LOWER FRONT RIGHT
IP2	10-WAY / GREY / CABIN HARNESS TO INSTRUMENT PANEL HARNESS	CABIN / BEHIND LH SIDE INSTRUMENT PANEL END PLATE
IP8	14-WAY / GREY / ENGINE COMPARTMENT HARNESS TO INSTRUMENT PANEL HARNESS	CABIN / RH 'A' POST
IP22	16-WAY / BLUE / CABIN HARNESS TO INSTRUMENT PANEL HARNESS	CABIN / BEHIND INSTRUMENT PANEL END PLATE / LH SIDE (LHD), RH SIDE (RHD)
RF1	10-WAY / GREY / CABIN HARNESS TO ROOF HARNESS	CABIN / UPPER RH 'A' POST
SD28	20-WAY / BLACK / DRIVER SEAT HARNESS TO CABIN HARNESS	CABIN / BELOW DRIVER SEAT
TL35	22-WAY / GREY / CABIN HARNESS TO REAR CENTRE CONSOLE	TRUNK / LH REAR

**GROUNDS**

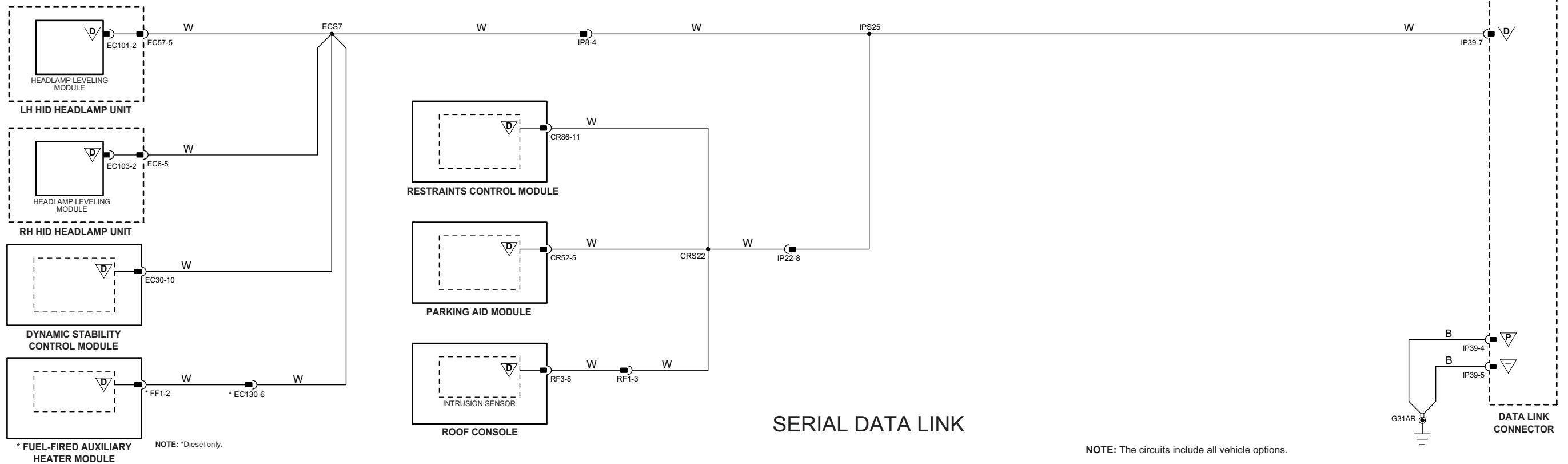
Ground	Location
G31	CABIN / BEHIND PASSENGER AIR BAG

Refer to the front of this book for detailed information and illustrations regarding the location and identification of harnesses, relays, fuses, grounds, control modules and control module pins.



STANDARD CORPORATE PROTOCOL NETWORK

NOTE: All SCP Network wires (Y & U) are twisted pairs.



SERIAL DATA LINK

NOTE: The circuits include all vehicle options.

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1 → 6 Fig. 01.1	64 → 95 Fig. 01.3	16 → 52 Fig. 01.5	78 → 105 Fig. 01.7	Input	Battery Voltage	Sensor/Signal Supply V	ACP	SCP
7 → 63 Fig. 01.2	1 → 15 Fig. 01.4	53 → 77 Fig. 01.6	106 → 143 Fig. 01.8	Output	Power Ground	Sensor/Signal Ground	CAN	Serial and Encoded Data

VARIANT: LHD Vehicles  
 VIN RANGE: All  
 DATE OF ISSUE: April 2006

**Fig. 20.3****COMPONENTS**

Component	Connector(s)	Connector Description	Location	
AUDIO UNIT	CC8	20-WAY / BLACK	CENTER CONSOLE	
	CC9	2-WAY / BLACK		
	CC21	FIBER OPTIC CONNECTOR		
DATA LINK CONNECTOR	IP39	16-WAY / BLACK	TRANSMISSION TUNNEL / DRIVER SIDE	
	DD11	20-WAY / BLACK	DRIVER DOOR	
DRIVER DOOR MODULE	DD12	26-WAY / BLACK		
	DD13	26-WAY / NATURAL		
DRIVER SEAT MODULE	SD2	22-WAY / BLACK	UNDER DRIVER SEAT	
	SD3	6-WAY / BLACK		
	SD4	6-WAY / BLACK		
	SD24	4-WAY / BLACK		
	SD26	4-WAY / BLACK		
	SD27	6-WAY / BLACK		
	EC30	47-WAY / BLACK		
DYNAMIC STABILITY CONTROL MODULE	CR1	26-WAY / BLACK	ENGINE COMPARTMENT, RH FRONT	
	CR9	12-WAY / BLACK	CABIN / LH 'A' POST	
	CR10	17-WAY / BLACK		
	CR85	20-WAY / BLACK		
	FF1	8-WAY / BLACK	BELOW LH HEADLAMP ASSEMBLY	
FRONT ELECTRONIC MODULE	FF2	2-WAY / BLACK		
	FF3			
	EC57	9-WAY / BLACK	ENGINE COMPARTMENT / LH FRONT	
HID HEADLAMP UNIT – LH	EC6	9-WAY / BLACK	ENGINE COMPARTMENT / RH FRONT	
HID HEADLAMP UNIT – RH	IP5	22-WAY / GREY	INSTRUMENT PANEL	
INSTRUMENT CLUSTER	IP6	20-WAY / BLACK		
	IP7	22-WAY / BLACK		
NAVIGATION CONTROL MODULE	DB6	FIBER OPTIC CONNECTOR	TRUNK / LH SIDE / MODULE STACK / SECOND FROM TOP	
	TL2	20-WAY / BLACK		
	TL29	26-WAY / BLACK		
	TL30	12-WAY / BLACK		
	TL37	2-WAY / BLACK		
	CR52	26-WAY / BLACK		TRUNK / SPARE WHEEL WELL
	CR4	20-WAY / BLACK		TRUNK / RH REAR
PARKING AID MODULE	CR11	26-WAY / NATURAL		
	CR12	12-WAY / BLACK		
	CR13	22-WAY / BLACK		
	CR71	17-WAY / BLACK		
	CR73	4-WAY / BLACK		
	CR21	4-WAY / BLACK	REAR BULKHEAD / BEHIND REAR SEAT BACK	
	CR37	26-WAY / BLACK		
	CR38	22-WAY / BLACK		
	CR41	6-WAY / BLACK		
	CR53	4-WAY / BLACK		
REAR ELECTRONIC MODULE	CR59	6-WAY / BLACK		
	CR86	24-WAY / BLACK	TRANSMISSION TUNNEL, UNDER CENTER CONSOLE	
	CR87	40-WAY / BLACK		
ROOF CONSOLE	RF1	10-WAY / GREY / CABIN HARNESS TO ROOF HARNESS	CABIN / UPPER RH 'A' POST	
STEERING COLUMN LOCK MODULE	SD28	20-WAY / BLACK / DRIVER SEAT HARNESS TO CABIN HARNESS	CABIN / BELOW DRIVER SEAT	
	IP24	4-WAY / BLACK	UPPER STEERING COLUMN	

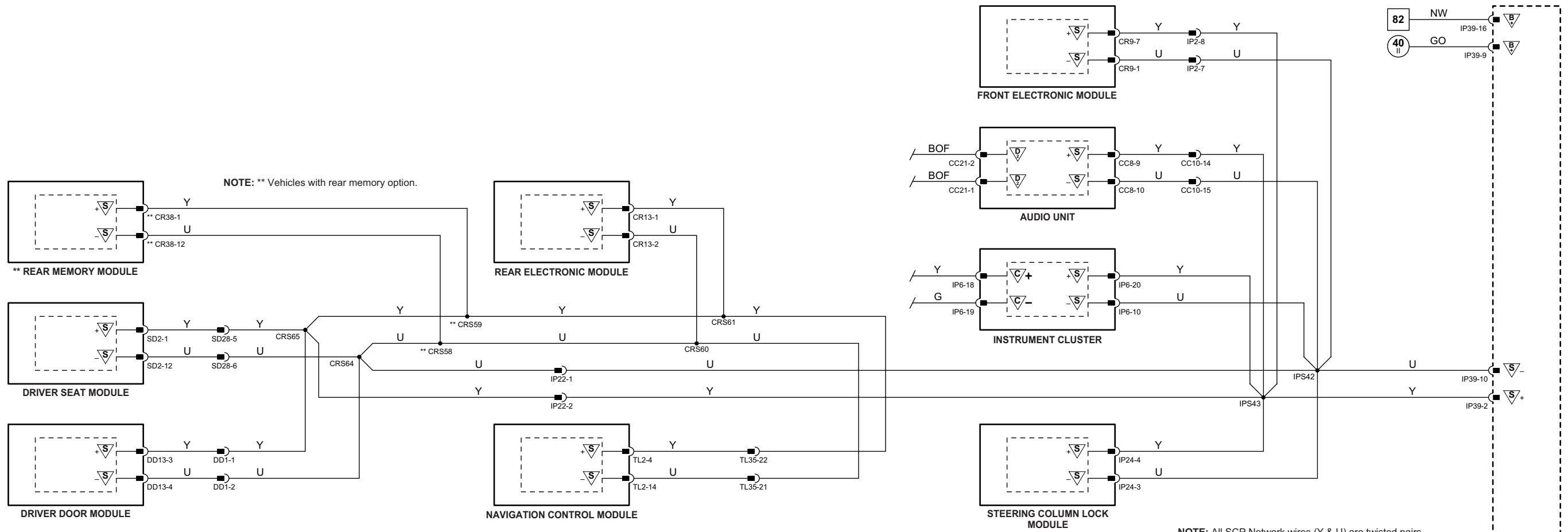
**HARNESS IN-LINE CONNECTORS**

Connector	Connector Description / Location	Location
CC10	22-WAY / GREEN / CENTER CONSOLE HARNESS TO INSTRUMENT PANEL HARNESS	CABIN / BELOW CENTER CONSOLE / LH SIDE (LHD), RH SIDE (RHD)
DD1	22-WAY / BLACK / CABIN HARNESS TO DRIVER DOOR HARNESS	CABIN / DRIVER SIDE 'A' POST
EC130	8-WAY / GREY / CABIN HARNESS TO FUEL FIRED HEATER LINK HARNESS	LOWER FRONT RIGHT
IP2	10-WAY / GREY / CABIN HARNESS TO INSTRUMENT PANEL HARNESS	CABIN / BEHIND LH SIDE INSTRUMENT PANEL END PLATE
IP8	14-WAY / GREY / ENGINE COMPARTMENT HARNESS TO INSTRUMENT PANEL HARNESS	CABIN / RH 'A' POST
IP22	16-WAY / BLUE / CABIN HARNESS TO INSTRUMENT PANEL HARNESS	CABIN / BEHIND INSTRUMENT PANEL END PLATE / LH SIDE (LHD), RH SIDE (RHD)
RF1	10-WAY / GREY / CABIN HARNESS TO ROOF HARNESS	CABIN / UPPER RH 'A' POST
SD28	20-WAY / BLACK / DRIVER SEAT HARNESS TO CABIN HARNESS	CABIN / BELOW DRIVER SEAT
TL35	22-WAY / GREY / CABIN HARNESS TO REAR CENTRE CONSOLE	TRUNK / LH REAR

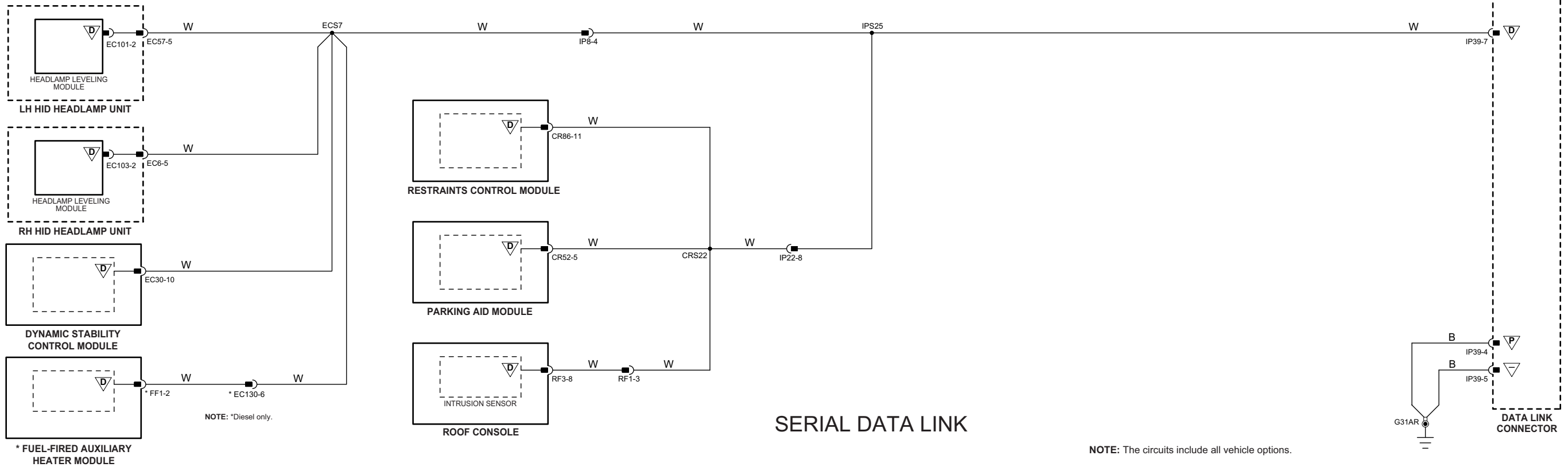
**GROUND**

Ground	Location
G31	CABIN / BEHIND PASSENGER AIR BAG

Refer to the front of this book for detailed information and illustrations regarding the location and identification of harnesses, relays, fuses, grounds, control modules and control module pins.



STANDARD CORPORATE PROTOCOL NETWORK



SERIAL DATA LINK

1 → 6	Fig. 01.1	64 → 95	Fig. 01.3	16 → 52	Fig. 01.5	78 → 105	Fig. 01.7
7 → 63	Fig. 01.2	1 → 15	Fig. 01.4	53 → 77	Fig. 01.6	106 → 143	Fig. 01.8

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

**VARIANT:** RHD Vehicles  
**VIN RANGE:** All  
**DATE OF ISSUE:** April 2006

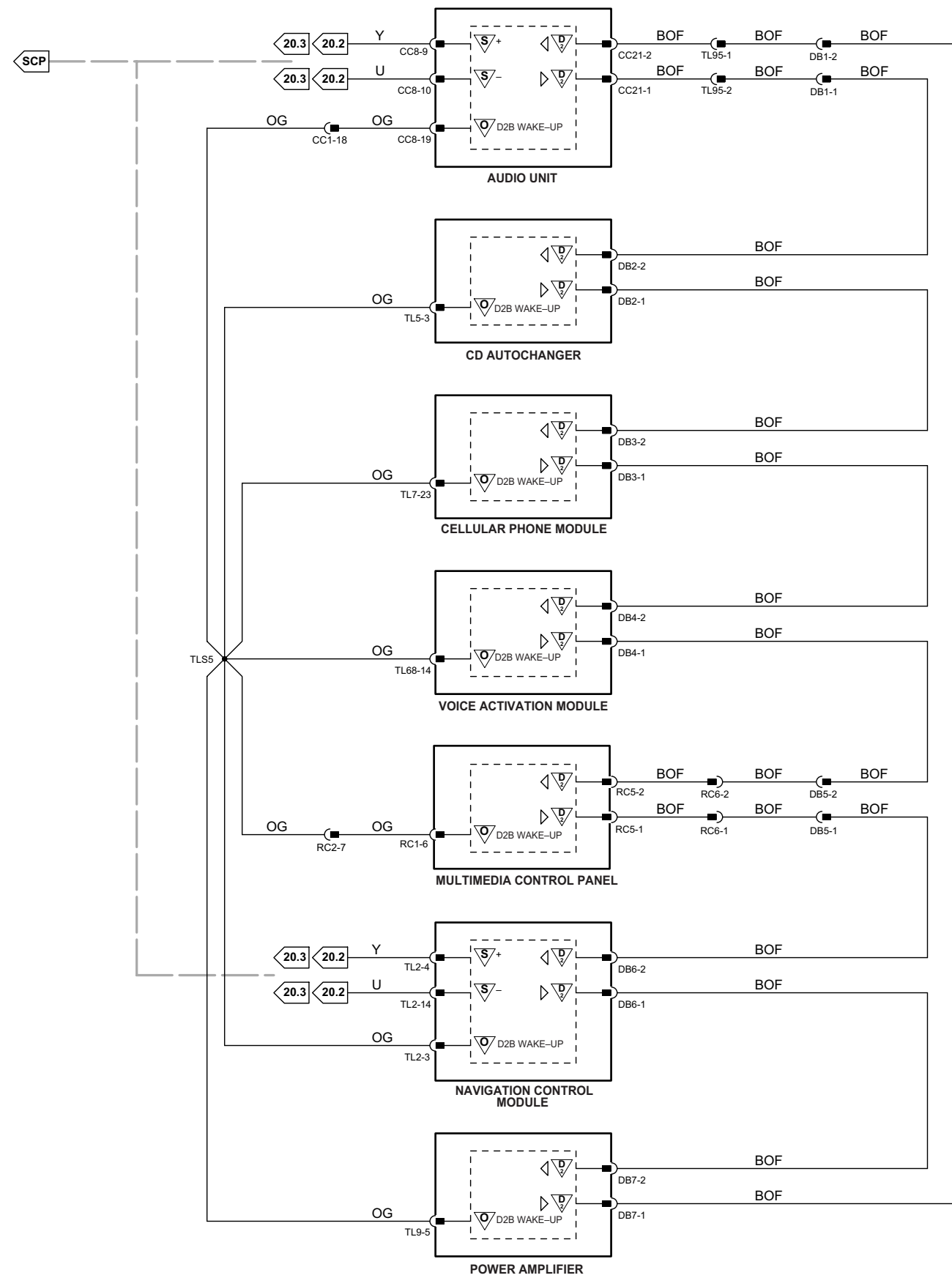
**Fig. 20.4****COMPONENTS**

Component	Connector(s)	Connector Description	Location
AUDIO UNIT	CC8	20-WAY / BLACK	CENTER CONSOLE
	CC9	2-WAY / BLACK	
	CC21	FIBER OPTIC CONNECTOR	
CD AUTOCHANGER	DB2	FIBER OPTIC CONNECTOR	TRUNK / LH SIDE / MODULE STACK / THIRD FROM TOP
	TL5	3-WAY / BLACK	
CELLULAR PHONE CONTROL MODULE	DB3	FIBER OPTIC CONNECTOR	TRUNK / LH SIDE / MODULE STACK / BOTTOM
	TL7	32-WAY / BLACK	
	TL94	2-WAY / BLACK	
	RC1	8-WAY / BLACK	
MULTIMEDIA CONTROL PANEL	RC3	20-WAY / BLACK	REAR SEAT ARM REST OR REAR FLOOR CONSOLE
	RC5	FIBER OPTIC CONNECTOR	
NAVIGATION CONTROL MODULE	DB6	FIBER OPTIC CONNECTOR	TRUNK / LH SIDE / MODULE STACK / SECOND FROM TOP
	TL2	20-WAY / BLACK	
	TL29	26-WAY / BLACK	
	TL30	12-WAY / BLACK	
	TL37	2-WAY / BLACK	
	TL9	12-WAY / WHITE	
POWER AMPLIFIER	DB7	FIBER OPTIC CONNECTOR	TRUNK / LH SIDE
	TL10	18-WAY / WHITE	
VOICE ACTIVATION MODULE	DB4	FIBER OPTIC CONNECTOR	TRUNK / LH SIDE / MODULE STACK / SECOND FROM BOTTOM
	TL68	22-WAY / GREY	

**HARNESS IN-LINE CONNECTORS**

Connector	Connector Description / Location	Location
CC1	22-WAY GREEN / TELEMATICS HARNESS TO CENTER CONSOLE HARNESS	CABIN / BELOW CENTER CONSOLE
DB1	2-WAY / BLACK / TELEMATICS HARNESS TO D2B NETWORK HARNESS	TRUNK / LH SIDE
DB5	2-WAY / BLACK / D2B NETWORK HARNESS TO REAR IN-CAR ENTERTAINMENT CONTROLS HARNESS	TRUNK / LH SIDE
RC2	8-WAY / BLACK / TELEMATICS HARNESS TO REAR IN-CAR ENTERTAINMENT CONTROLS HARNESS	CABIN / BELOW CENTER CONSOLE
RC6	2-WAY / BLACK / D2B NETWORK HARNESS TO REAR IN-CAR ENTERTAINMENT CONTROLS HARNESS	CABIN / BELOW CENTER CONSOLE
TL95	2-WAY / BLACK / CENTER CONSOLE HARNESS TO D2B NETWORK HARNESS	CABIN / BELOW REAR CENTER CONSOLE

Refer to the front of this book for detailed information and illustrations regarding the location and identification of harnesses, relays, fuses, grounds, control modules and control module pins.



**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.



