

Fig. 20.1

COMPONENTS

Component	Connector(s)	Connector Description	Location
ANTI-LOCK BRAKING / TRACTION CONTROL MODULE	JB197	42-WAY / BLUE	ENGINE COMPARTMENT / RH SIDE
ANTI-LOCK BRAKING SYSTEM MODULE	JB45	42-WAY / BLUE	ENGINE COMPARTMENT / RH SIDE
CLIMATE CONTROL MODULE – PANEL	AC1 IP39 IP101 IP135	26-WAY / YELLOW 4-WAY / GREY 26-WAY / WHITE 2-WAY / GREY	BEHIND CLIMATE CONTROL PANEL
CLIMATE CONTROL MODULE – REMOTE	AC1 IP101	26-WAY / YELLOW 26-WAY / WHITE	RH SIDE OF AIR DISTRIBUTION UNIT
DATA LINK CONNECTOR	IP22	16-WAY / BLACK	BELOW STEERING COLUMN
DYNAMIC STABILITY CONTROL MODULE	JB185	42-WAY / BLUE	ENGINE COMPARTMENT / RH SIDE
ENGINE CONTROL MODULE – 2.0 L	EN65	104-WAY / BLACK	ENGINE COMPARTMENT, FRONT BULKHEAD / RH SIDE
ENGINE CONTROL MODULE – 2.0 L D	DL1	121-WAY / BLACK	ENGINE COMPARTMENT, FRONT BULKHEAD / RH SIDE
ENGINE CONTROL MODULE – 2.5 L, 3.0 L	EN16	134-WAY / BLACK	ENGINE COMPARTMENT, FRONT BULKHEAD / RH SIDE
HEADLAMP LEVELING MODULE	IP130	26-WAY / WHITE	BEHIND INSTRUMENT PANEL / LH SIDE
INSTRUMENT CLUSTER	IP10 IP11	26-WAY / WHITE 26-WAY / WHITE	INSTRUMENT PANEL
J-GATE MODULE	IP14	16-WAY / GREY	CENTER CONSOLE
SEAT MODULE – DRIVER	DM2 DM3 DM4 DM5	10-WAY / GREY 16-WAY / BLACK 8-WAY / BLUE 8-WAY / GREEN	DRIVER SEAT SWITCH PACK
STEERING ANGLE SENSOR	IP19	4-WAY / BLACK	STEERING COLUMN
TRANSMISSION CONTROL MODULE – 16 BIT	JB131	37-WAY / BLUE	LOWER LH 'A' POST
TRANSMISSION CONTROL MODULE – 32 BIT	JB230 JB231	24-WAY / WHITE 24-WAY / GREY	LOWER LH 'A' POST
YAW RATE SENSOR	IP20	4-WAY / BLACK	BEHIND CENTER CONSOLE

HARNESS IN-LINE CONNECTORS

Connector	Connector Description	Location
CA10	22-WAY / SLATE / CABIN HARNESS TO JUNCTION BOX HARNESS	LH 'A' POST / 'A' POST TRIM
CA230	16-WAY / BLUE / CABIN HARNESS TO INSTRUMENT PANEL HARNESS	LH LOWER 'A' POST / 'A' POST TRIM
CA431	16-WAY / GREY / CABIN HARNESS TO DRIVER SEAT HARNESS	UNDER DRIVER SEAT
JB1	42-WAY / BLACK / ENGINE MANAGEMENT HARNESS TO JUNCTION BOX HARNESS	ENGINE COMPARTMENT / LH SIDE

GROUND

Ground	Harness	Location
G37	IP	BEHIND INSTRUMENT PANEL / RH SIDE OF CROSS CAR BEAM

NOTE: Refer to the Appendix at the rear of this book for Network Messages.

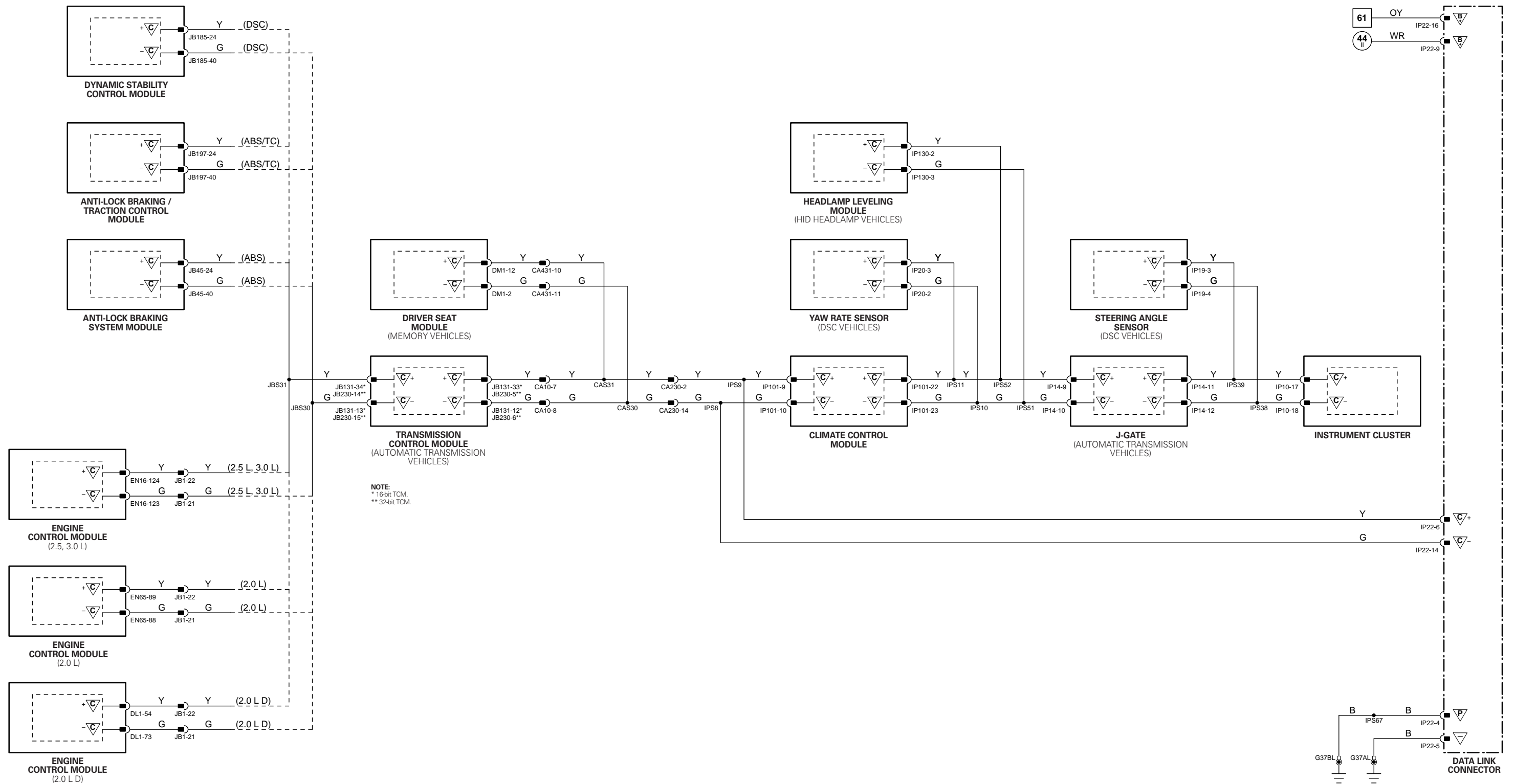


Fig. 20.2

COMPONENTS

Component	Connector(s)	Connector Description	Location
ANTI-LOCK BRAKING / TRACTION CONTROL MODULE	JB197	42-WAY / BLUE	ENGINE COMPARTMENT / RH SIDE
ANTI-LOCK BRAKING SYSTEM MODULE	JB45	42-WAY / BLUE	ENGINE COMPARTMENT / RH SIDE
CLIMATE CONTROL MODULE – PANEL	AC1 IP39 IP101 IP135	26-WAY / YELLOW 4-WAY / GREY 26-WAY / WHITE 2-WAY / GREY	BEHIND CLIMATE CONTROL PANEL
CLIMATE CONTROL MODULE – REMOTE	AC1 IP101	26-WAY / YELLOW 26-WAY / WHITE	RH SIDE OF AIR DISTRIBUTION UNIT
DATA LINK CONNECTOR	IP22	16-WAY / BLACK	BELOW STEERING COLUMN
DYNAMIC STABILITY CONTROL MODULE	JB185	42-WAY / BLUE	ENGINE COMPARTMENT / RH SIDE
ENGINE CONTROL MODULE – 2.0 L	EN65	104-WAY / BLACK	ENGINE COMPARTMENT, FRONT BULKHEAD / RH SIDE
ENGINE CONTROL MODULE – 2.0 L D	DL1	121-WAY / BLACK	ENGINE COMPARTMENT, FRONT BULKHEAD / RH SIDE
ENGINE CONTROL MODULE – 2.5 L, 3.0 L	EN16	134-WAY / BLACK	ENGINE COMPARTMENT, FRONT BULKHEAD / RH SIDE
HEADLAMP LEVELING MODULE	IP130	26-WAY / WHITE	BEHIND INSTRUMENT PANEL / LH SIDE
INSTRUMENT CLUSTER	IP10 IP11	26-WAY / WHITE 26-WAY / WHITE	INSTRUMENT PANEL
J-GATE MODULE	IP14	16-WAY / GREY	CENTER CONSOLE
SEAT MODULE – DRIVER	DM2 DM3 DM4 DM5	10-WAY / GREY 16-WAY / BLACK 8-WAY / BLUE 8-WAY / GREEN	DRIVER SEAT SWITCH PACK
STEERING ANGLE SENSOR	IP19	4-WAY / BLACK	STEERING COLUMN
TRANSMISSION CONTROL MODULE – 16 BIT	JB131	37-WAY / BLUE	LOWER LH 'A' POST
TRANSMISSION CONTROL MODULE – 32 BIT	JB230 JB231	24-WAY / WHITE 24-WAY / GREY	LOWER LH 'A' POST
YAW RATE SENSOR	IP20	4-WAY / BLACK	BEHIND CENTER CONSOLE

HARNESS IN-LINE CONNECTORS

Connector	Connector Description	Location
CA10	22-WAY / SLATE / CABIN HARNESS TO JUNCTION BOX HARNESS	LH 'A' POST / 'A' POST TRIM
CA230	16-WAY / BLUE / CABIN HARNESS TO INSTRUMENT PANEL HARNESS	LH LOWER 'A' POST / 'A' POST TRIM
CA431	16-WAY / GREY / CABIN HARNESS TO DRIVER SEAT HARNESS	UNDER DRIVER SEAT
JB1	42-WAY / BLACK / ENGINE MANAGEMENT HARNESS TO JUNCTION BOX HARNESS	ENGINE COMPARTMENT / LH SIDE

GROUND

Ground	Harness	Location
G37	IP	BEHIND INSTRUMENT PANEL / RH SIDE OF CROSS CAR BEAM

NOTE: Refer to the Appendix at the rear of this book for Network Messages.

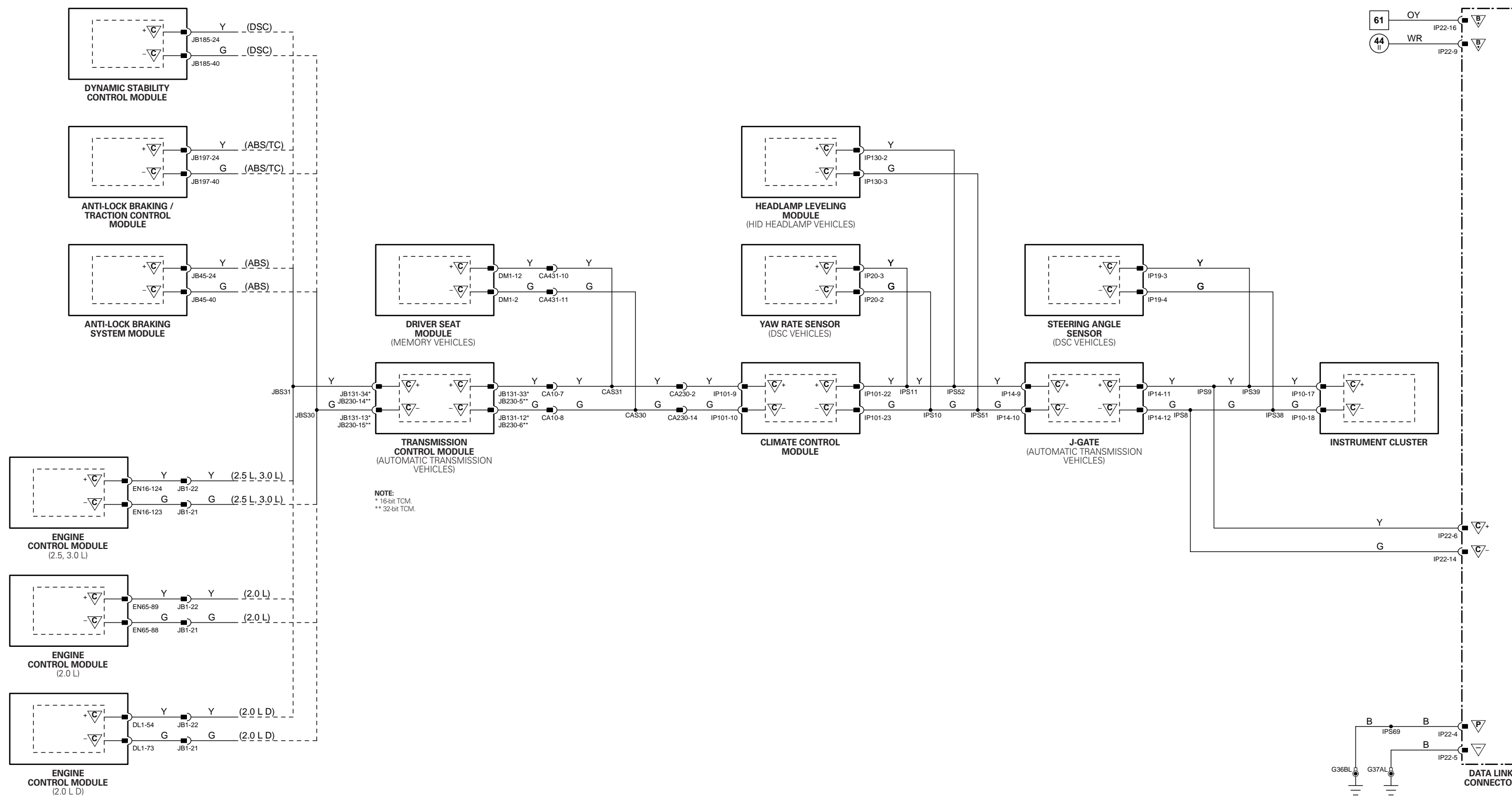


Fig. 20.3

COMPONENTS

Component	Connector(s)	Connector Description	Location
AUDIO UNIT	ID1 IP65 IP106	2-WAY / D2B 20-WAY / BLACK 2-WAY / METALLIC	INSTRUMENT PANEL CENTER
DATA LINK CONNECTOR	IP22	16-WAY / BLACK	BELOW STEERING COLUMN
ENGINE CONTROL MODULE – 2.0 L	EN65	104-WAY / BLACK	ENGINE COMPARTMENT, FRONT BULKHEAD / RH SIDE
ENGINE CONTROL MODULE – 2.0 L D	DL1	121-WAY / BLACK	ENGINE COMPARTMENT, FRONT BULKHEAD / RH SIDE
ENGINE CONTROL MODULE – 2.5 L, 3.0 L	EN16	134-WAY / BLACK	ENGINE COMPARTMENT, FRONT BULKHEAD / RH SIDE
FUEL-FIRED AUXILIARY HEATER MODULE	JB232	6-WAY / BLACK	VEHICLE UNDER-FLOOR REARWARD OF ENGINE
GENERAL ELECTRONIC MODULE	CA86 CA87 IP5 IP6 JB172	23-WAY / GREY 23-WAY / GREEN 23-WAY / BROWN 23-WAY / NATURAL 23-WAY / BLUE	BEHIND INSTRUMENT PANEL / RH SIDE
HEADLAMP LEVELING MODULE	IP130	26-WAY / WHITE	BEHIND INSTRUMENT PANEL / LH SIDE
INSTRUMENT CLUSTER	IP10 IP11	26-WAY / WHITE 26-WAY / WHITE	INSTRUMENT PANEL
NAVIGATION CONTROL MODULE	CD5 NA1 NA2 NA6 NA7	2-WAY / D2B 26-WAY / WHITE 12-WAY / BLACK 2-WAY / GREY 20-WAY / BLACK	TRUNK, LH REAR
PARKING AID MODULE	CA418 CA419 RB7	16-WAY / WHITE 12-WAY / WHITE 12-WAY / WHITE	SPARE WHEEL WELL
RESTRAINTS CONTROL MODULE – ALL WHEEL DRIVE VEHICLES	CA450 IP74	40-WAY / BLACK 24-WAY / BLACK	UNDER CENTER CONSOLE
RESTRAINTS CONTROL MODULE – FRONT WHEEL DRIVE VEHICLES	CA165 IP74	40-WAY / BLACK 24-WAY / BLACK	UNDER CENTER CONSOLE
ROOF CONSOLE – PRINTED CIRCUIT BOARD	RC23	20-WAY / WHITE	ROOF CENTER FRONT
ROOF CONSOLE – WITHOUT PRINTED CIRCUIT BOARD	RC30 RC31 RC33 RC34	4-WAY / BLACK 2-WAY / BLACK 4-WAY / BLACK 6-WAY / BLACK	ROOF CENTER FRONT

HARNESS IN-LINE CONNECTORS

Connector	Connector Description	Location
CA36	16-WAY / GREEN / CABIN HARNESS TO ROOF HARNESS	LH 'A' POST / WINDSHIELD PILLAR
CA230	16-WAY / BLUE / CABIN HARNESS TO INSTRUMENT PANEL HARNESS	LH LOWER 'A' POST / 'A' POST TRIM
CA240	12-WAY / GREY / CABIN HARNESS TO INSTRUMENT PANEL HARNESS	LH LOWER 'A' POST / 'A' POST TRIM
CA414	16-WAY / BLUE / NAVIGATION HARNESS TO CABIN HARNESS	BELOW LH REAR SEAT CUSHION
JB1	42-WAY / BLACK / ENGINE MANAGEMENT HARNESS TO JUNCTION BOX HARNESS	ENGINE COMPARTMENT / LH SIDE
JB3	14-WAY / BLUE / JUNCTION BOX HARNESS TO INSTRUMENT PANEL HARNESS	BELOW INSTRUMENT PANEL / LH SIDE

GROUNDS

Ground	Harness	Location
G36	IP	BEHIND INSTRUMENT PANEL / LH SIDE OF CROSS CAR BEAM
G37	IP	BEHIND INSTRUMENT PANEL / RH SIDE OF CROSS CAR BEAM

NOTE: Refer to the Appendix at the rear of this book for Network Messages.

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.

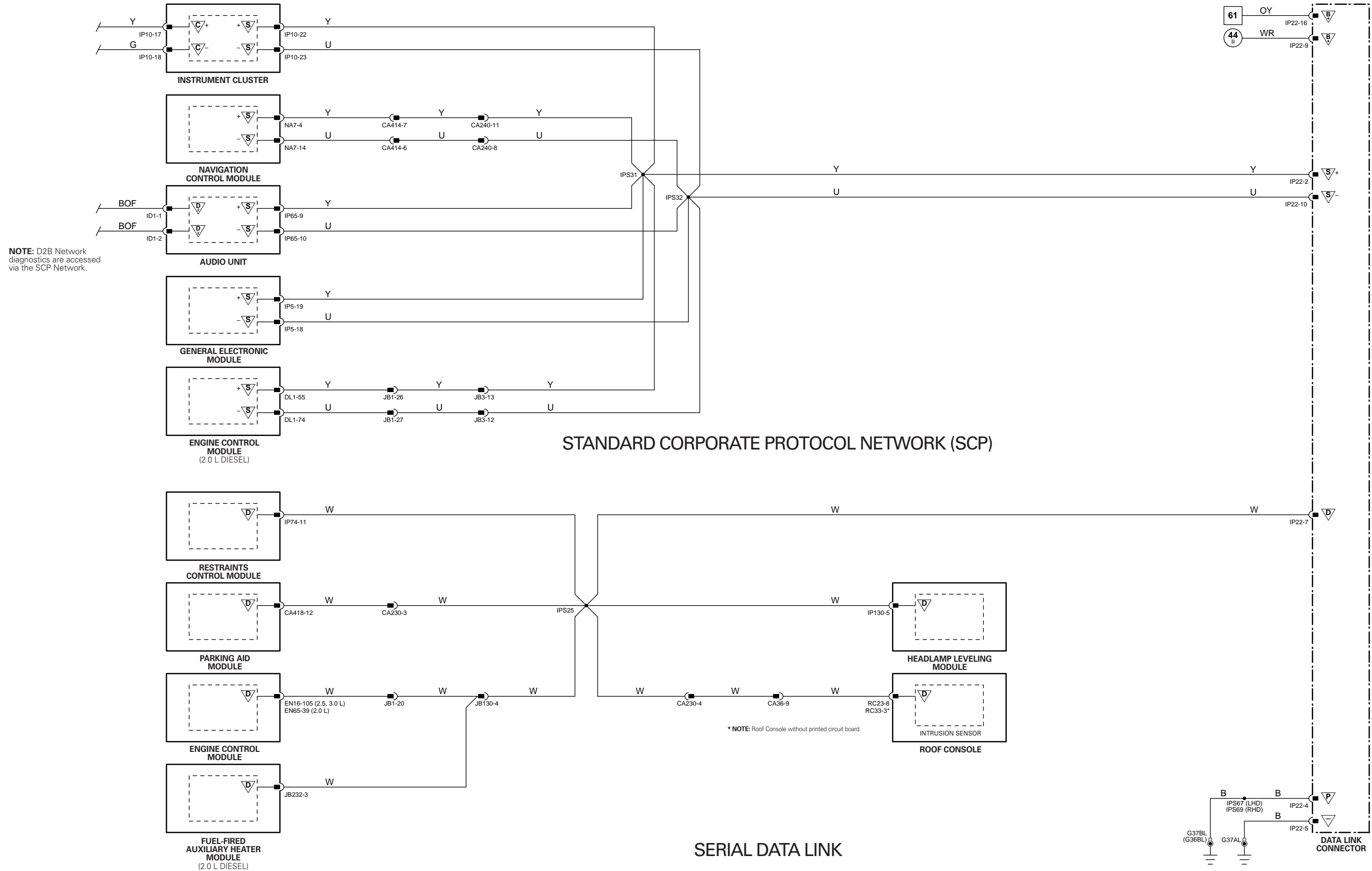


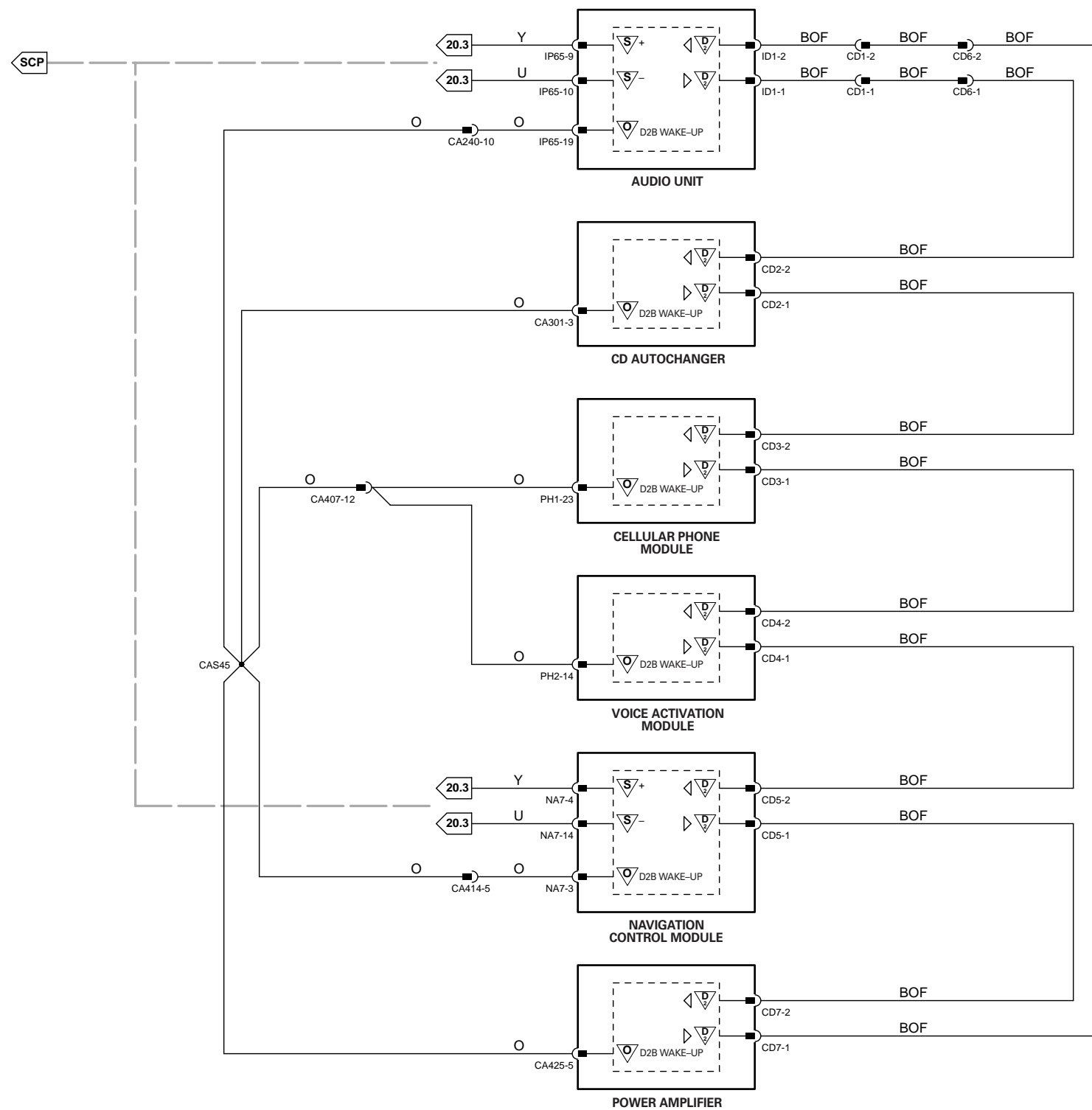
Fig. 20.4**COMPONENTS**

Component	Connector(s)	Connector Description	Location
AUDIO UNIT	ID1 IP65 IP106	2-WAY / D2B 20-WAY / BLACK 2-WAY / METALLIC	INSTRUMENT PANEL CENTER
CD AUTOCHANGER	CD2 CA301	2-WAY / D2B 3-WAY / BLACK	TRUNK / LH SIDE
CELLULAR PHONE MODULE	CD3 PH1 PH3	2-WAY / D2B 32-WAY / BLACK 2-WAY / GREY	TRUNK / LH SIDE
NAVIGATION CONTROL MODULE	CD5 NA1 NA2 NA6 NA7	2-WAY / D2B 26-WAY / WHITE 12-WAY / BLACK 2-WAY / GREY 20-WAY / BLACK	TRUNK, LH REAR
POWER AMPLIFIER	CA425 CA426 CD7	12-WAY / GREY 18-WAY / BLACK 2-WAY / D2B	TRUNK, LH REAR
VOICE ACTIVATION MODULE	CD4 PH2	2-WAY / D2B 22-WAY / BLACK	TRUNK, LH REAR

HARNESS IN-LINE CONNECTORS

Connector	Connector Description	Location
CA240	12-WAY / GREY / CABIN HARNESS TO INSTRUMENT PANEL HARNESS	LH LOWER 'A' POST / 'A' POST TRIM
CA407	16-WAY / GREY / CELLULAR PHONE HARNESS TO CABIN HARNESS	BELOW LH REAR SEAT CUSHION
CA414	16-WAY / BLUE / NAVIGATION HARNESS TO CABIN HARNESS	BELOW LH REAR SEAT CUSHION
CD1	2-WAY / BLACK / FIBER OPTIC CONNECTOR	LH LOWER 'A' POST / 'A' POST TRIM
CD6	2-WAY / BLACK / FIBER OPTIC CONNECTOR	TRUNK, LH REAR

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 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.

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



This Appendix contains a listing of CAN and SCP Network messages.

NOTE: Passive Anti-Theft System and Security System messages are not included in this appendix.

The following acronyms and abbreviations are used throughout this section:

A/C	Air Conditioning
ABS	Anti-Lock Braking
AT CMD	Commands for configuring and controlling telecommunication devices
AUDIO	Audio Unit
BIT	Smallest element of data code (1 or 0)
BYTE	Grouping of 8 bits (one alphanumeric character)
°C	Degrees Celsius
CAL	Calibrate
CAN	Controller Area Network
CCM	Climate Control Module
CID	CAN Identifier
CM	Control module
CPM	Cellular Phone Module
D2B	D2B Fiber Optic Network
D2B OPC	Instructions for translating and routing data for D2B use
DIAG	Diagnostics
DSC	Dynamic Stability Control
DSCM	Dynamic Stability Control Module
DSM	Driver Seat Module
DTC	Diagnostic Trouble Code
ECM	Engine Control Module
°F	Degrees Fahrenheit
Gateway	Device that converts messages between different types of networks
GEM	General Electronic Module
HLM	Headlamp Leveling Module
IDB	Identification Byte
IC	Instrument Cluster
JGM	J-Gate Module
LED	Light Emitting Diode
MIL	Malfunction Indicator Lamp
MSG	Message
NCM	Navigation Control Module
OBD	On Board Diagnostics (OBD II, EOBD)
ODO	Odometer
PTT	Push to Talk
RPM	Revolutions Per Minute
SAS	Steering Angle Sensor
SCP	Standard Corporate Protocol Network
SMS	Short Message Service for Mobile Communications
STM	Switch to Test Mode
TCM	Transmission Control Module
TCS	Traction Control System
VAM	Voice Activation Module
WDS	Worldwide Diagnostic System
YRS	Yaw Rate Sensor



SCP Message Matrix

Message	Source	Receivers			
		GECM	IC	NCM	AUDIO
All Headlamp Status - Off	IC	X			X
All Headlamp Status - On	IC	X			X
All Park Lamp Status - Off	IC	X		X	X
All Park Lamp Status - On	IC	X		X	X
ALL Turn signal Lamp Command - Off	GEM		X		
ALL Turn signal Lamp Command - On	GEM		X		
Cellular Phone In Use Status - No (False)	AUDIO		X		
Cellular Phone In Use Status - Yes (True)	AUDIO		X		
Chime Configuration 1 Command - Disabled (Airbag)	IC	X			
Chime Configuration 1 Command - Enabled (Airbag)	IC	X			
Chime Configuration 2 Command - Disabled (Seat Belt)	IC	X			
Chime Configuration 2 Command - Enabled (Seat Belt)	IC	X			
Trunk lid Ajar Switch Status - Active	GEM		X		X
Trunk lid Ajar Switch Status - Inactive	GEM		X		X
Display Access Confirmation Status - Accept	IC			X	X
Display Access Confirmation Status - Reject	IC			X	X
Display Access Display String Command - Clear Display	AUDIO		X		
Display Access Display String Command - Clear Display	NCM		X		
Display Access Display String Command - Overwrite Display	AUDIO		X		
Display Access Display String Command - Overwrite Display	NCM		X		
Display Access Terminate Command	AUDIO		X		
Display Access Terminate Command	NCM		X		
Download Block to Display Command	AUDIO		X		
Download Block to Display Command	NCM		X		
Driver's Front Door Ajar Switch Status - Active	GEM		X		X
Driver's Front Door Ajar Switch Status - Inactive	GEM		X		X
Driver's Rear Door Ajar Switch Status - Active	GEM		X		X
Driver's Rear Door Ajar Switch Status - Inactive	GEM		X		X
Gateway Climate Control to Display Status	IC			X	
Gateway Climate Control to Voice Status	IC				X
Gateway Audio to NCM	AUDIO			X	
Gateway Audio to NCM (Multiframe)	AUDIO		X		



SCP Message Matrix

Message	Source	Receivers			
		GECM	IC	NCM	AUDIO
Gateway Display to Climate Control Command	NCM		X		
Gateway NCM to Audio	NCM				X
Gateway NCM to Phone (AT Cmd) (First Frame)	NCM				X
Gateway NCM to Phone (AT Cmd) (Continuation Frame)	NCM				X
Gateway NCM to Phone (D2B OPC) (First Frame)	NCM				X
Gateway NCM to Phone (D2B OPC) (Continuation Frame)	NCM			X	
Gateway NCM to SMS (SMS Data) (First Frame)	NCM				X
Gateway NCM to SMS (SMS Data) (Continuation Frame)	NCM				X
Gateway NCM to VAM	NCM				
Gateway Phone to NCM (AT Cmd) (First Frame)	AUDIO			X	
Gateway Phone to NCM (AT Cmd) (Continuation Frame)	AUDIO			X	
Gateway Phone to NCM (D2B OPC) (First Frame)	AUDIO			X	
Gateway Phone to NCM (D2B OPC) (Continuation Frame)	AUDIO			X	
Gateway SMS to NCM (SMS Data) (First Frame)	AUDIO			X	
Gateway SMS to NCM (SMS Data) (Continuation Frame)	AUDIO			X	
Gateway Voice to Climate Control Command	AUDIO		X		
Gateway VAM to NCM	AUDIO			X	
Hood Ajar Switch Status - Active	GEM		X		X
Hood Ajar Switch Status - Inactive	GEM		X		X
Ignition Switch Position with Initialize Status - No (False)	IC	X		X	X
Ignition Switch Position with Initialize Status - Yes (True)	IC	X		X	X
Left Side Turn Signal Command - Off	GEM		X		
Left Side Turn Signal Command - On	GEM		X		
Low Fuel Level Status - No (False)	IC			X	
Low Fuel Level Status - Yes (True)	IC			X	
Low Washer Fluid warning - Off	IC	X			
Low Washer Fluid warning - On	IC	X			
Network Bus Wake-up Command - Yes (True)	GEM				
Network Bus Wake-up Command - Yes (True)	IC				
Odometer Rolling Count Status	IC			X	
Parking Brake Switch Status - Active	IC				X
Parking Brake Switch Status - Inactive	IC				X



SCP Message Matrix

Message	Source	Receivers			
		GECM	IC	NCM	AUDIO
Passenger's Front Door Ajar Switch Status - Active	GEM		X		X
Passenger's Front Door Ajar Switch Status - Inactive	GEM		X		X
Passenger's Rear Door Ajar Switch Status - Active	GEM		X		X
Passenger's Rear Door Ajar Switch Status - Inactive	GEM		X		X
Remote Control Button Status - Button 7 (PTT) Active	AUDIO			X	
Remote Control Button Status - Button 6 (VOL+) Active	AUDIO			X	
Remote Control Button Status - Button 5 (VOL-) Active	AUDIO			X	
Remote Control Button Status - Button 4 (SELECT) Active	AUDIO			X	
Remote Control Button Status - Button 3 (SEEK UP) Active	AUDIO			X	
Remote Control Button Status - Button 2 (SEEK DOWN) Active	AUDIO			X	
Remote Control Button Status - All Buttons Inactive	AUDIO			X	
Request All Headlamp Status	GEM		X		
Request All Headlamp Status	AUDIO		X		
Request All Park Lamp Status	GEM		X		
Request All Park Lamp Status	NCM		X		
Request All Park Lamp Status	AUDIO		X		
Request trunk Ajar Switch Status	IC	X			
Request trunk Ajar Switch Status	AUDIO	X			
Request Driver's Front Door Ajar Switch Status	IC	X			
Request Driver's Front Door Ajar Switch Status	AUDIO	X			
Request Driver's Rear Door Ajar Switch Status	IC	X			
Request Driver's Rear Door Ajar Switch Status	AUDIO	X			
Request Hood Ajar Switch Status	IC	X			
Request Hood Ajar Switch Status	AUDIO	X			
Request Ignition Switch Position with Initialize Status	GEM		X		
Request Ignition Switch Position with Initialize Status	AUDIO		X		
Request Ignition Switch Position with Initialize Status	NCM		X		
Request Low Fuel Level Status	NCM		X		
Request Low Washer Fluid warning Command	GEM		X		
Request Parking Brake Switch Status	AUDIO		X		
Request Passenger's Front Door Ajar Switch Status	IC	X			
Request Passenger's Front Door Ajar Switch Status	AUDIO	X			



SCP Message Matrix

Message	Source	Receivers			
		GECM	IC	NCM	AUDIO
Request Passenger's Rear Door Ajar Switch Status	IC	X			
Request Passenger's Rear Door Ajar Switch Status	AUDIO	X			
Request Seat belt - warning Status	IC	X			
Request Tailgate Glass Ajar Switch Status	IC	X			
Request Vehicle Anti-theft System Status	IC	X			
Request Vehicle Configuration Module Programmed Status	IC	X			
Request Vehicle Inertia Switch Status	GEM		X		
Request Vehicle Security Key Status	GEM		X		
Request Vehicle Security Key Status	AUDIO		X		
Right Side Turn Signal Command - Off	GEM		X		
Right Side Turn Signal Command - On	GEM		X		
Seatbelt warning Command Off	GEM		X		
Seatbelt warning Command On	GEM		X		
Steering Wheel Button Pressed	AUDIO			X	
Tailgate Glass Ajar Switch Status - Active	GEM		X		
Tailgate Glass Ajar Switch Status - Inactive	GEM		X		
Terminate Display Confirmation Status - Accept	IC			X	X
Terminate Display Confirmation Status - Reject	IC			X	X
Terminate Display Definition Command	AUDIO		X		
Terminate Display Definition Command	NCM		X		
Time of Day (with Mode) Command	NCM				X
Time of Day (with Mode) Status	AUDIO			X	
Transit Mode Command - Active	EXTERNAL	X	X		
Transit Mode Command - Inactive	IC	X			
Transmission PRNDL Range Selected Status	IC			X	
Vehicle Anti-theft System Status	GEM		X		
Vehicle Configuration Module Programmed Status - No (False)	GEM		X		
Vehicle Configuration Module Programmed Status - No (False)	AUDIO		X		
Vehicle Configuration Module Programmed Status - Yes (True)	GEM		X		
Vehicle Inertia Switch Status - Active (Crashed)	IC	X			
Vehicle Inertia Switch Status - Inactive (OK)	IC	X			
Vehicle Security Key Status	IC	X			X



SCP Message Matrix

Message	Source	Receivers			
		GECM	IC	NCM	AUDIO
Vehicle Speed - High Resolution Status	IC	X			X
VAM Control Mode Status - Off	AUDIO	X	X		
VAM Control Mode Status - On	AUDIO	X	X		
VAM Control Mode Status - Off	NCM	X	X		
VAM Control Mode Status - On	NCM	X	X		
VAM Training Mode A/B Entry	NCM				X



CAN Message Matrix

Message	Source	Receivers														
		ABS/TC/DSC	ECM	TCM	IC	CCM	HLM	JGM	SAS	YRS	DSM	WDS				
CAN transmission output speed	TCM		X													
CAN traction shift map	ABS / TC / DSC			X												
CAN OBD II ABS clear acknowledge	ABS / TC / DSC		X													
CAN ABS fault code MIL status	ABS / TC / DSC		X													
CAN ABS status	ABS / TC / DSC															
CAN vehicle reference speed	ABS / TC / DSC		X			X										
CAN ABS fault codes	ABS / TC / DSC		X													
CAN ODO rolling count	ABS / TC / DSC					X										
CAN ABS malfunction	ABS / TC / DSC		X			X										
CAN ABS flags	ABS / TC / DSC		X			X										
CAN transmission input indicated torque	ECM		X													
CAN engine acceleration	ECM		X													
CAN throttle position	ECM		X			X										
CAN pedal position	ECM		X			X										
CAN engine speed	ECM		X			X		X								
CAN alternator status	ECM							X								
CAN speed control status	ECM					X		X								
CAN kick down	ECM					X		X								
CAN OBD II clear fault codes	ECM		X			X		X								
CAN brake pedal pressed	ECM					X		X		X						
CAN crank in progress	ECM		X			X		X		X						X
CAN traction acknowledge	ECM		X													
CAN fuel cap warning	ECM							X								
CAN brake fluid low	IC		X													
CAN park brake status	IC		X													X
CAN dipped beam status	IC		X												X	X
CAN reverse gear manual selected	IC		X													
CAN oil pressure low	IC		X													
CAN restrict climate control blowers	IC															X



CAN Message Matrix

Message	Source	Receivers													
		ABS/TC/DSC	ECM	TCM	IC	CCM	HLM	JGM	SAS	YRS	DSM	WDS			
CAN fuel level damped	IC		X												
CAN fuel level raw 1	IC		X												
CAN fuel level raw 2	IC		X												
CAN backlight status	IC						X								
CAN gear position actual	TCM	X	X		X									X	
CAN gear position selected	TCM		X		X		X								
CAN transmission shift map	TCM	X	X												
CAN transmission oil temperature	TCM		X		X										
CAN transmission malfunction	TCM	X	X		X										
CAN TCM configuration flag	TCM				X										
CAN torque converter status	TCM	X	X												
CAN gear selection fault	TCM		X		X						X				
CAN idle neutral control	TCM		X												
CAN performance mode indication	TCM										X				
CAN TCM fault code MIL status	TCM		X												
CAN OBD II TCM clear acknowledge	TCM		X												
CAN transmission fault codes	TCM	X	X												
CAN gear position target	TCM	X													
CAN pressure transducer	ECM						X								
CAN engine intake temperature	ECM						X								
CAN A/C clutch inhibit status	ECM						X								
CAN electrical load management	ECM						X								
CAN A/C load control	ECM						X								
CAN cooling fan feedback	ECM										X				
CAN ambient temperature	CCM		X												
CAN compressor torque	CCM		X												
CAN A/C commands	CCM		X												
CAN A/C status	CCM		X												
CAN cooling fan request	CCM		X												



CAN Message Matrix

Message	Source	Receivers														
		ABS/TC/DSC	ECM	TCM	IC	CCM	HLM	JGM	SAS	YRS	DSM	WDS				
CAN fuel used	ECM		X													
CAN engine OBD II MIL	ECM		X													
CAN throttle malfunction RED	ECM	X														
CAN throttle malfunction AMBER	ECM	X														
CAN ECM fault code MIL status	ECM	X	X													
CAN ECM configuration flag	ECM		X													
CAN engine fault codes	ECM		X													
CAN engine coolant temperature	ECM		X	X												
CAN engine oil temperature	ECM		X													
CAN barometric pressure	ECM		X													
CAN front left wheel speed	ABS / TC / DSC		X	X					X							
CAN front right wheel speed	ABS / TC / DSC		X	X					X							
CAN rear left wheel speed	ABS / TC / DSC		X	X					X							
CAN rear right wheel speed	ABS / TC / DSC		X	X					X							
CAN odometer reading	IC		X							X						
CAN display memory stored	DSM				X											
CAN display memory recalled	DSM				X											
CAN VOICE climate control command	IC								X							
CAN climate control VOICE status	CCM				X											
CAN display climate control command	IC								X							
CAN climate control display status	CCM				X											
CAN powertrain configuration	ECM	X	X													
CAN SWS command code word	ABS / TC / DSC												X			
CAN SWS CAN ID	ABS / TC / DSC												X			
CAN diagnostic data in CCM	WDS								X							
CAN diagnostic data out CCM	CCM															X
CAN diagnostic data in DSM	WDS															X
CAN diagnostic data out DSM	WDS															X
CAN diagnostic data in ECM	WDS															X

