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	26-WAY / YELLOW	BEHIND CLIMATE CONTROL PANEL
	IP39	4-WAY / GREY	
	IP101	26-WAY / WHITE	
	IP135	2-WAY / GREY	
CLIMATE CONTROL MODULE – REMOTE	AC1	26-WAY / YELLOW	RH SIDE OF AIR DISTRIBUTION UNIT
	IP101	26-WAY / WHITE	
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 – Diesel	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	26-WAY / WHITE	INSTRUMENT PANEL
	IP11	26-WAY / WHITE	
J-GATE MODULE	IP14	16-WAY / GREY	CENTER CONSOLE
SEAT MODULE – DRIVER	DM2	10-WAY / GREY	DRIVER SEAT SWITCH PACK
	DM3	16-WAY / BLACK	
	DM4	8-WAY / BLUE	
	DM5	8-WAY / GREEN	
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	24-WAY / WHITE	LOWER LH 'A' POST
	JB231	24-WAY / GREY	
YAW RATE SENSOR	IP20	4-WAY / BLACK	BEHIND CENTER CONSOLE

HARNESS IN-LINE CONNECTORS

Connector	Connector Description / Location	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

GROUNDS

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

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.

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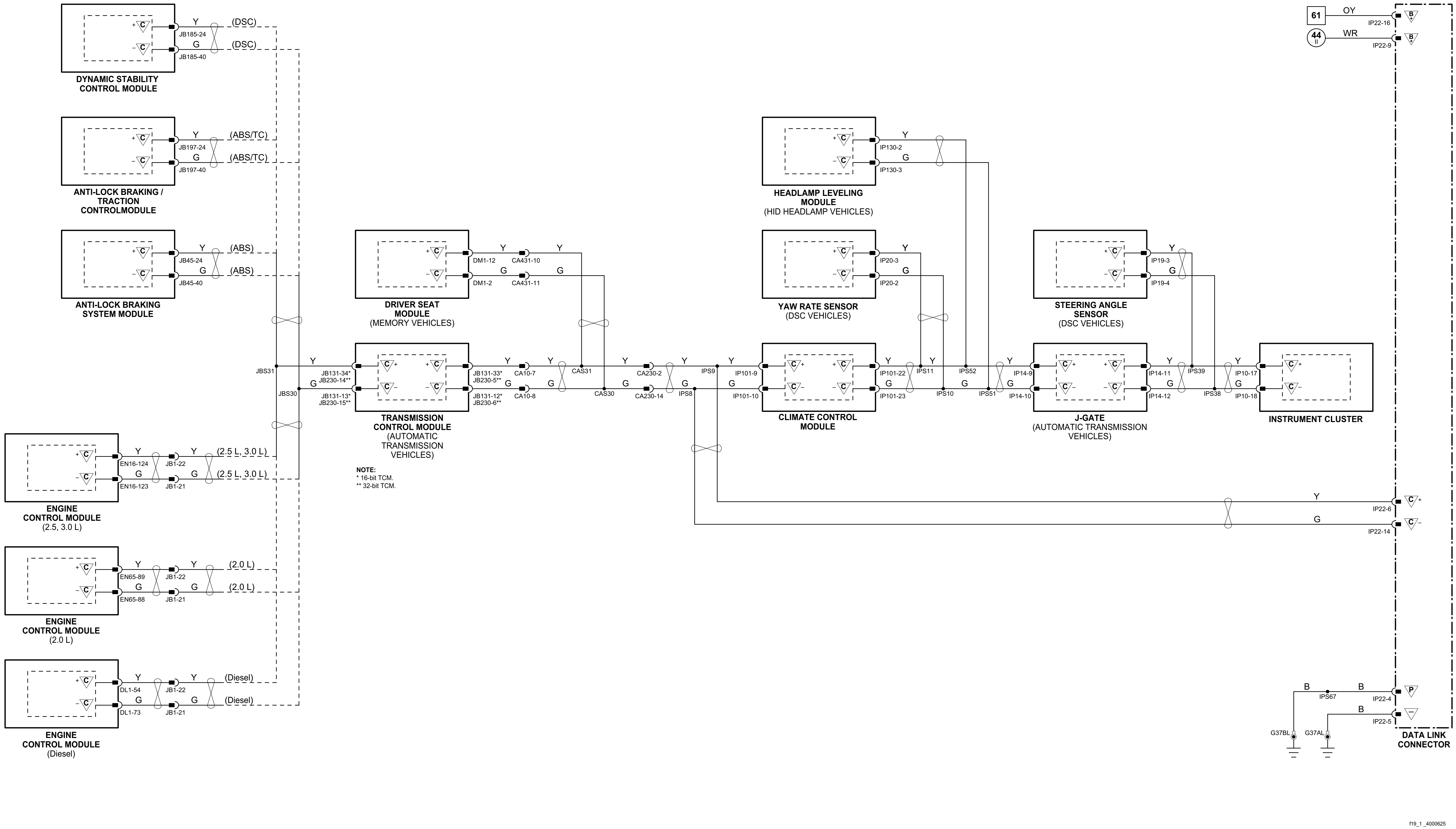

1 → 6 Fig. 01.1	34 → 79 Fig. 01.3	11 → 31 Fig. 01.5	67 → 76 Fig. 01.7	98 → 107 Fig. 01.9	I Input	B Battery Voltage	+ Sensor/Signal Supply V
7 → 33 Fig. 01.2	1 → 10 Fig. 01.4	32 → 66 Fig. 01.6	77 → 97 Fig. 01.8		O Output	P Power Ground	− Sensor/Signal Ground

C CAN — D D2B Network
S SCP — D Serial and Encoded Data

VARIANT: LHD Vehicles
VIN RANGE: All
DATE OF ISSUE: January 2007

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	26-WAY / YELLOW	BEHIND CLIMATE CONTROL PANEL
	IP39	4-WAY / GREY	
	IP101	26-WAY / WHITE	
	IP135	2-WAY / GREY	
CLIMATE CONTROL MODULE – REMOTE	AC1	26-WAY / YELLOW	RH SIDE OF AIR DISTRIBUTION UNIT
	IP101	26-WAY / WHITE	
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 – Diesel	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	26-WAY / WHITE	INSTRUMENT PANEL
	IP11	26-WAY / WHITE	
J-GATE MODULE	IP14	16-WAY / GREY	CENTER CONSOLE
SEAT MODULE – DRIVER	DM2	10-WAY / GREY	DRIVER SEAT SWITCH PACK
	DM3	16-WAY / BLACK	
	DM4	8-WAY / BLUE	
	DM5	8-WAY / GREEN	
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	24-WAY / WHITE	LOWER LH 'A' POST
	JB231	24-WAY / GREY	
YAW RATE SENSOR	IP20	4-WAY / BLACK	BEHIND CENTER CONSOLE

HARNESS IN-LINE CONNECTORS

Connector	Connector Description / Location	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

GROUNDS

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

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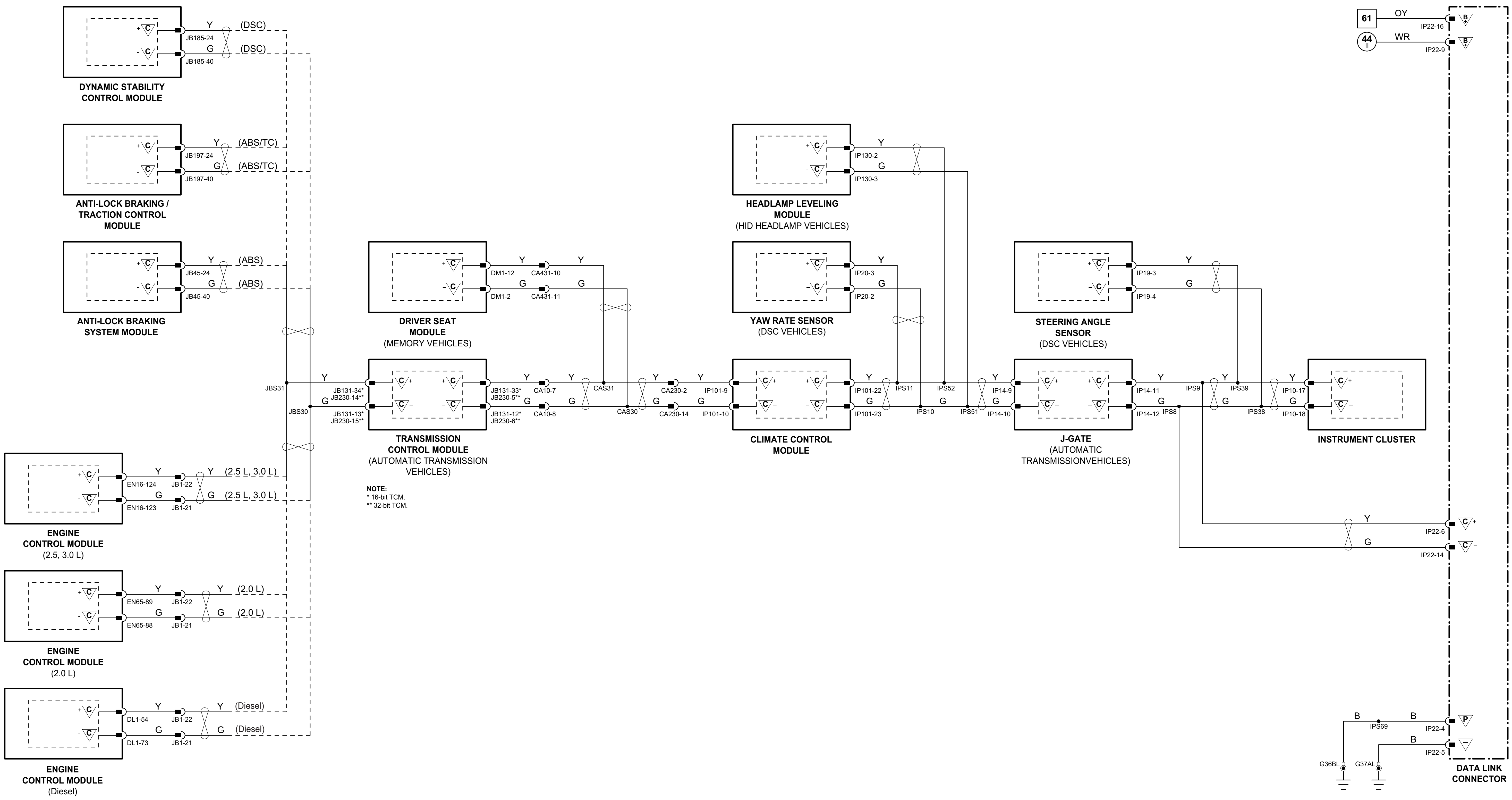

1 → 6 Fig. 01.1; 7 → 33 Fig. 01.2; 34 → 79 Fig. 01.3; 1 → 10 Fig. 01.4; 11 → 31 Fig. 01.5; 32 → 66 Fig. 01.6; 67 → 76 Fig. 01.7; 77 → 97 Fig. 01.8; 98 → 107 Fig. 01.9	I Input; O Output; B Battery Voltage; P Power Ground; + Sensor/Signal Supply V; − Sensor/Signal Ground; C CAN; S SCP; D D2B Network; D Serial and Encoded Data	VARIANT: RHD Vehicles VIN RANGE: All DATE OF ISSUE: January 2007

Fig. 20.3

COMPONENTS

Component	Connector(s)	Connector Description	Location
AUDIO UNIT	ID1	2-WAY / D2B	INSTRUMENT PANEL CENTER
	IP65	20-WAY / BLACK	
	IP106	2-WAY / METALLIC	
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 – Diesel	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	23-WAY / GREY	BEHIND INSTRUMENT PANEL / RH SIDE
	CA87	23-WAY / GREEN	
	IP5	23-WAY / BROWN	
	IP6	23-WAY / NATURAL	
	JB172	23-WAY / BLUE	
HEADLAMP LEVELING MODULE	IP130	26-WAY / WHITE	BEHIND INSTRUMENT PANEL / LH SIDE
INSTRUMENT CLUSTER	IP10	26-WAY / WHITE	INSTRUMENT PANEL
	IP11	26-WAY / WHITE	
NAVIGATION CONTROL MODULE	CD5	2-WAY / D2B	TRUNK, LH REAR
	NA1	26-WAY / WHITE	
	NA2	12-WAY / BLACK	
	NA6	2-WAY / GREY	
	NA7	20-WAY / BLACK	
PARKING AID MODULE	CA418	16-WAY / WHITE	SPARE WHEEL WELL
	CA419	12-WAY / WHITE	
	RB7	12-WAY / WHITE	
RESTRAINTS CONTROL MODULE – ALL WHEEL DRIVE VEHICLES	CA450	40-WAY / BLACK	UNDER CENTER CONSOLE
	IP74	24-WAY / BLACK	
RESTRAINTS CONTROL MODULE – FRONT WHEEL DRIVE VEHICLES	CA165	40-WAY / BLACK	UNDER CENTER CONSOLE
	IP74	24-WAY / BLACK	
ROOF CONSOLE – PRINTED CIRCUIT BOARD	RC23	20-WAY / WHITE	ROOF CENTER FRONT
ROOF CONSOLE – WITHOUT PRINTED CIRCUIT BOARD	RC30	4-WAY / BLACK	ROOF CENTER FRONT
	RC31	2-WAY / BLACK	
	RC33	4-WAY / BLACK	
	RC34	6-WAY / BLACK	

HARNESS IN-LINE CONNECTORS

Connector	Connector Description / Location	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

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.

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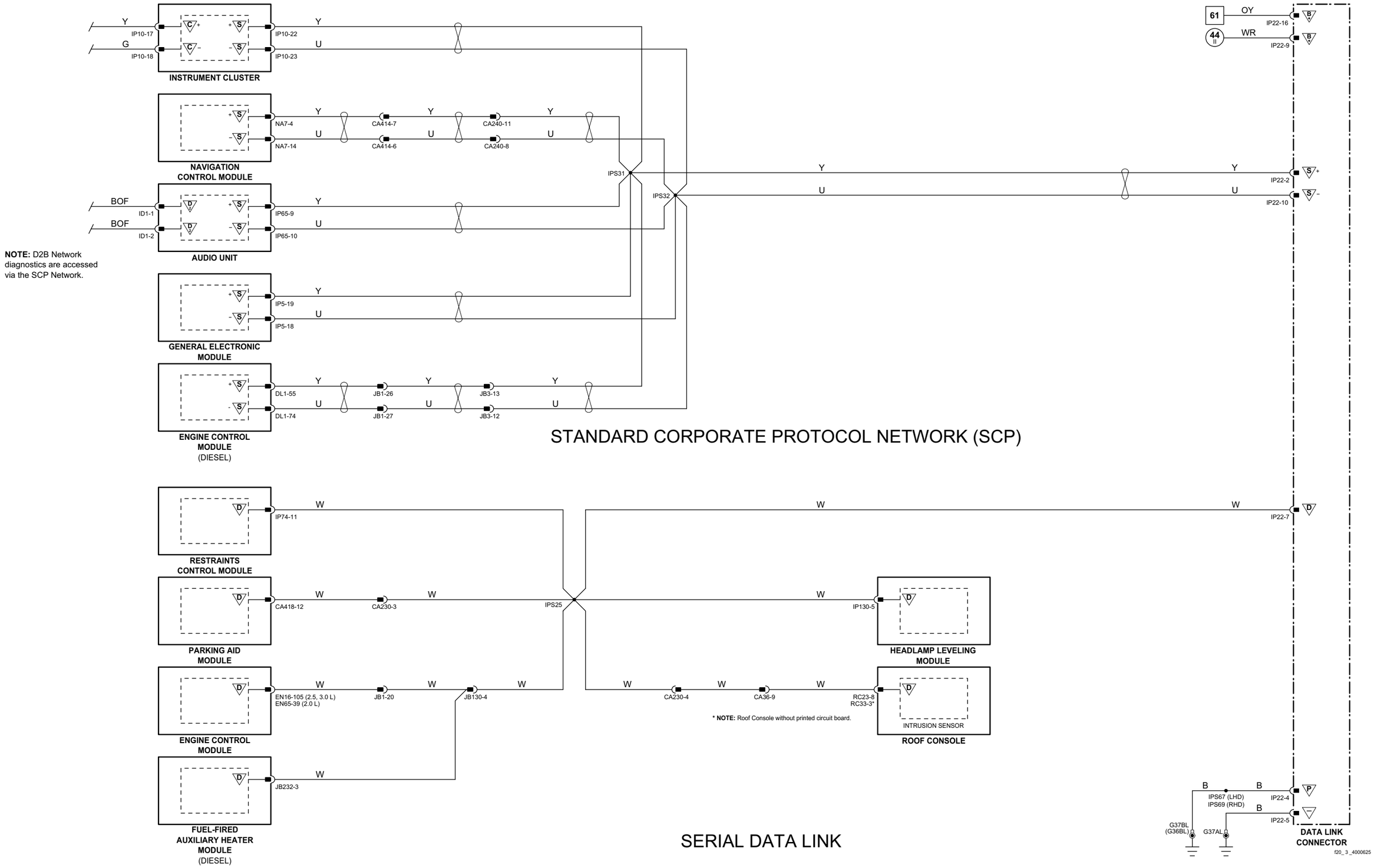


NOTE: D2B Network diagnostics are accessed via the SCP Network.

STANDARD CORPORATE PROTOCOL NETWORK (SCP)

SERIAL DATA LINK

1 → 6 Fig. 01.1
7 → 33 Fig. 01.2
34 → 79 Fig. 01.3
1 → 10 Fig. 01.4
11 → 31 Fig. 01.5
32 → 66 Fig. 01.6
67 → 76 Fig. 01.7
77 → 97 Fig. 01.8
98 → 107 Fig. 01.9

I Input
O Output
B Battery Voltage
P Power Ground
+ Sensor/Signal Supply V
− Sensor/Signal Ground
C CAN
S SCP
D D2B Network
D Serial and Encoded Data

VARIANT: All Vehicles
VIN RANGE: All
DATE OF ISSUE: January 2007

Fig. 20.4

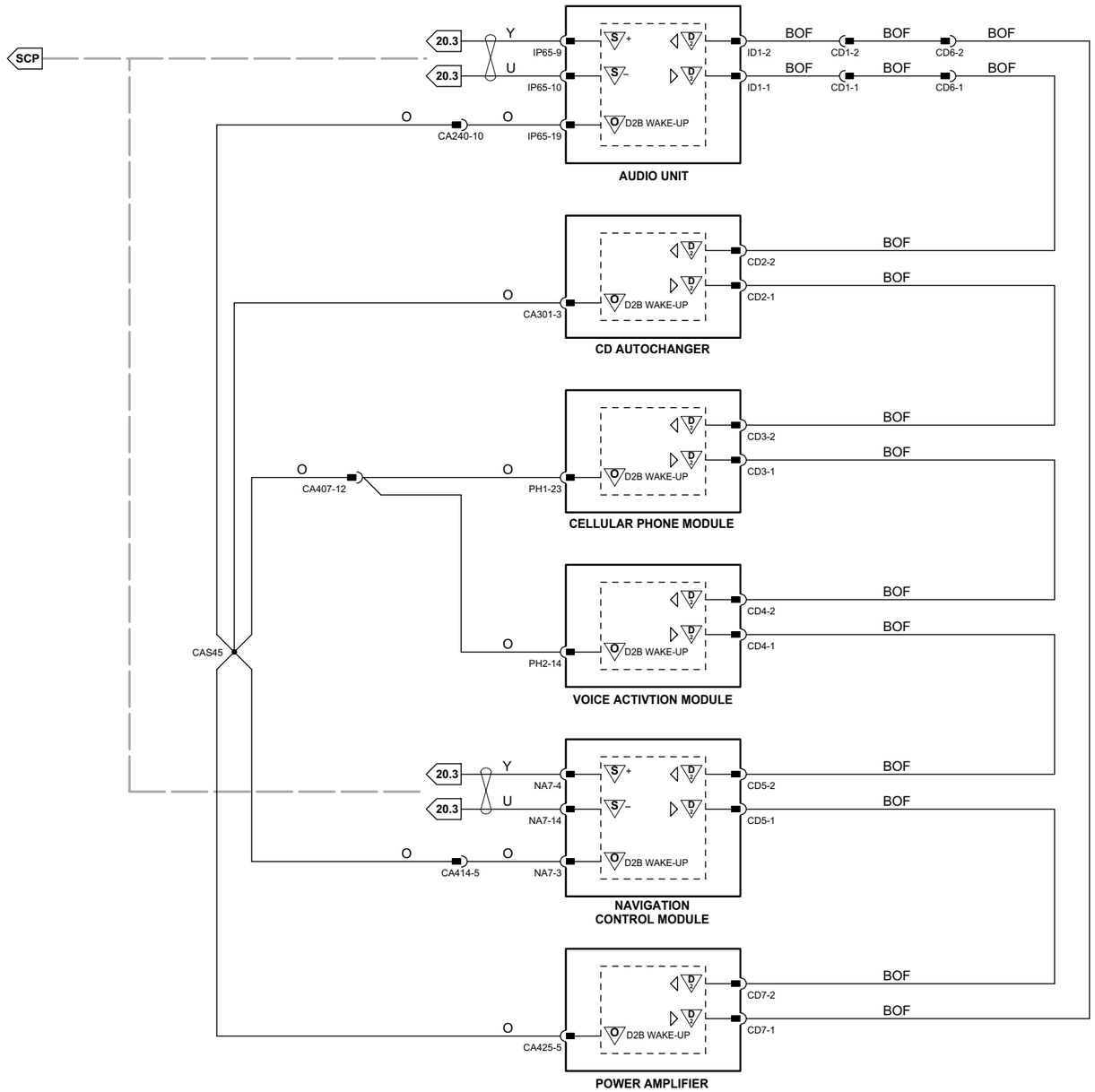
COMPONENTS

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

HARNESS IN-LINE CONNECTORS

Connector	Connector Description / Location	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.

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1 → 6 Fig. 01.1
7 → 33 Fig. 01.2
34 → 79 Fig. 01.3
1 (I) → 10 (I) Fig. 01.4
11 (J) → 31 (J) Fig. 01.5
32 (F) → 66 (B) Fig. 01.6
67 (B) → 76 (B) Fig. 01.7
77 (E) → 97 (E) Fig. 01.8
98 (E) → 107 (E) Fig. 01.9

I Input
O Output
B Battery Voltage
P Power Ground
+ Sensor/Signal Supply V
– Sensor/Signal Ground
C CAN
S SCP
D D2B Network
D Serial and Encoded Data

VARIANT: All Vehicles
VIN RANGE: All
DATE OF ISSUE: January 2007