

**Cellular Phone Module**

	Pin	Description and Characteristic
I	CD3-1	D2B NETWORK RECEIVE
O	CD3-2	D2B NETWORK TRANSMIT
O	PH1-01	PHONE BATTERY CHARGING SUPPLY
O	PH1-02	AUDIO TRANSMIT
O	PH1-03	PHONE ON /OFF (RESPONSE TO INCOMING AUDIO)
O	PH1-04	MUTE COMMAND
	PH1-06	BATTERY FEEDBACK
PG	PH1-09	POWER GROUND: GROUND
SG	PH1-10	AUDIO GROUND
SG	PH1-11	MICROPHONE SHIELD: GROUND
B+	PH1-12	BATTERY POWER SUPPLY: B+
B+	PH1-13	BATTERY POWER SUPPLY: B+
B+	PH1-14	IGNITION SWITCHED POWER SUPPLY (I): B+
I	PH1-17	MICROPHONE +
I	PH1-18	MICROPHONE -
D	PH1-20	TELEPHONE SERIAL COMMUNICATIONS DATA
	PH1-21	SCREEN
D	PH1-22	TELEPHONE SERIAL COMMUNICATIONS DATA
I	PH1-23	D2B NETWORK WAKE-UP
I	PH1-25	POWER GROUND: GROUND
I	PH1-26	TELEPHONE LOGIC GROUND: GROUND
I	PH1-29	IGNITION SWITCHED POWER SUPPLY (II): B+

**Fig. 16.1**

**COMPONENTS**

Component	Connector(s)	Connector Description	Location
AUDIO UNIT	ID1	2-WAY / D2B	INSTRUMENT PANEL CENTER
	IP65	20-WAY / BLACK	
	IP106	2-WAY / METALLIC	
CELLULAR PHONE MODULE	CD3	2-WAY / D2B	TRUNK / LH SIDE
	PH1	32-WAY / BLACK	
	PH3	2-WAY / GREY	
	PH10	-	
BLUETOOTH UPGRADE MODULE	PH10	-	CENTER CONSOLE
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	
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	
TELEMATICS DISPLAY	IP70	22-WAY / BLACK	CENTER CONSOLE
	IP136	2-WAY / METALLIC	
	IP137	2-WAY / METALLIC	
	IP138	2-WAY / METALLIC	
	IP139	2-WAY / METALLIC	
	PH15	2-WAY / GREY	
TELEPHONE ANTENNA - ESTATE (WAGON): AM / FM	PH15	2-WAY / GREY	ROOF CENTER REAR
TELEPHONE ANTENNA - SEDAN: BUMPER	-	-	REAR BUMPER

**HARNES IN-LINE CONNECTORS**

Connector	Connector Description / Location	Location
CA1	22-WAY / NATURAL / INSTRUMENT PANEL HARNESS TO CABIN HARNESS	LH 'A' POST / 'A' POST TRIM
CA40	16-WAY / GREY / CABIN HARNESS TO ROOF HARNESS	RH 'A' POST / WINDSHIELD PILLAR
CA230	16-WAY / BLUE / CABIN HARNESS TO INSTRUMENT PANEL HARNESS	LH LOWER 'A' POST / 'A' POST TRIM
CA406	3-WAY / GREY / NAVIGATION HARNESS TO CABIN HARNESS	BELOW LH REAR SEAT CUSHION
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

**GROUNDS**

Ground	Harness	Location
G39	PH	TRUNK / LH QUARTER PANEL

**FOR CONTROL MODULE PIN-OUT INFORMATION, UNFOLD PAGE TO LEFT.**

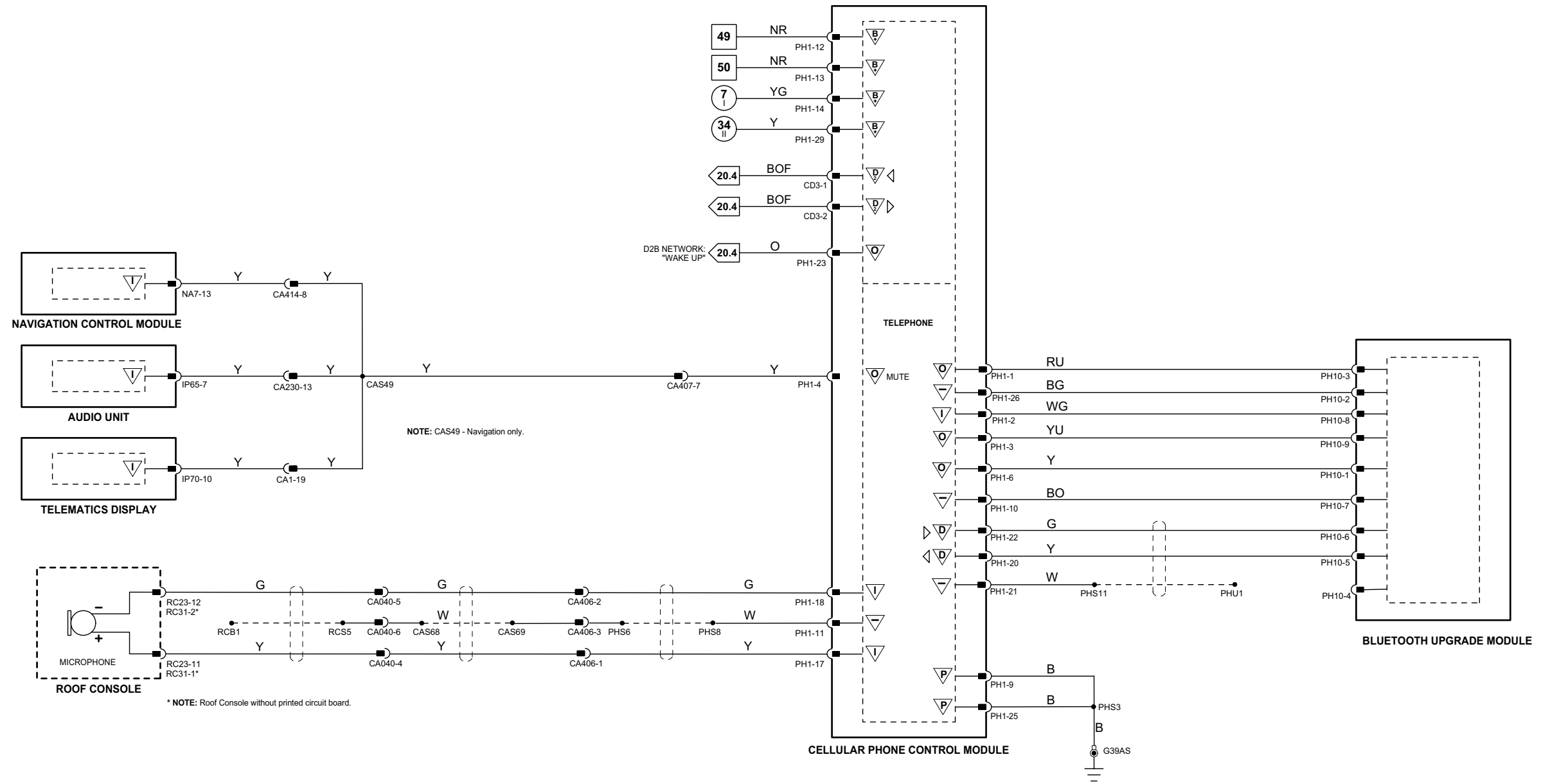
The following abbreviations are used to represent values for Control Module Pin-Out data

I	Input	PG	Power Ground	C	CAN Network	D	Serial and Encoded Data
O	Output	SS	Sensor / Signal Supply V	S	SCP Network	V	Voltage (DC)
B+	Battery Voltage	SG	Sensor / Signal Ground	D2	D2B Network	PWM	Pulse Width Modulated

**CAUTION:** The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

**NOTE:** The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted.

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. 16.2**

**Cellular Phone Module**

	Pin	Description and Characteristic
I	CD3-1	D2B NETWORK RECEIVE
O	CD3-2	D2B NETWORK TRANSMIT
O	PH1-01	PHONE BATTERY CHARGING SUPPLY
O	PH1-02	AUDIO TRANSMIT
O	PH1-03	PHONE ON /OFF (RESPONSE TO INCOMING AUDIO)
O	PH1-04	MUTE COMMAND
I	PH1-06	BATTERY FEEDBACK
PG	PH1-09	POWER GROUND: GROUND
SG	PH1-10	AUDIO GROUND
SG	PH1-11	MICROPHONE SHIELD: GROUND
B+	PH1-12	BATTERY POWER SUPPLY: B+
B+	PH1-13	BATTERY POWER SUPPLY: B+
B+	PH1-14	IGNITION SWITCHED POWER SUPPLY (I): B+
I	PH1-17	MICROPHONE +
I	PH1-18	MICROPHONE -
D	PH1-20	TELEPHONE SERIAL COMMUNICATIONS DATA SCREEN
D	PH1-21	TELEPHONE SERIAL COMMUNICATIONS DATA SCREEN
I	PH1-22	D2B NETWORK WAKE-UP
I	PH1-23	POWER GROUND: GROUND
I	PH1-25	TELEPHONE LOGIC GROUND: GROUND
I	PH1-26	TELEPHONE LOGIC GROUND: GROUND
I	PH1-29	IGNITION SWITCHED POWER SUPPLY (II): B+

**Voice Activation Module**

	Pin	Description and Characteristic
D2	CD2-2	D2B NETWORK RECEIVE
D2	CD4-1	D2B NETWORK TRANSMIT
I	PH2-01	MICROPHONE +
SG	PH2-02	MICROPHONE SHIELD
I	PH2-03	MICROPHONE +
B+	PH2-06	IGNITION SWITCHED POWER SUPPLY (II) (START / RUN STATUS)
B+	PH2-08	IGNITION SWITCHED POWER SUPPLY (I)
PG	PH2-11	POWER GROUND
I	PH2-12	MICROPHONE -
O	PH2-13	MICROPHONE -
O	PH2-14	D2B NETWORK WAKE UP
SG	PH2-15	MICROPHONE SHIELD
B+	PH2-22	BATTERY POWER SUPPLY: B+

**COMPONENTS**

Component	Connector(s)	Connector Description	Location
AUDIO UNIT	ID1	2-WAY / D2B	INSTRUMENT PANEL CENTER
	IP65	20-WAY / BLACK	
	IP106	2-WAY / METALLIC	
CELLULAR PHONE CONTROL MODULE	CD3	2-WAY / D2B	TRUNK / LH SIDE
	PH1	32-WAY / BLACK	
BLUETOOTH UPGRADE MODULE	PH10	-	CENTER CONSOLE
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	
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	
STEERING WHEEL	SW4	6-WAY / BLACK	STEERING COLUMN
TELEMATICS DISPLAY	IP70	22-WAY / BLACK	CENTER CONSOLE
	IP136	2-WAY / METALLIC	
	IP137	2-WAY / METALLIC	
	IP138	2-WAY / METALLIC	
	IP139	2-WAY / METALLIC	
TELEPHONE ANTENNA - ESTATE (WAGON): AM / FM	PH15	2-WAY / GREY	ROOF CENTER REAR
TELEPHONE ANTENNA - SEDAN: BUMPER	-	-	REAR BUMPER
VOICE ACTIVATION MODULE	CD4	2-WAY / D2B	TRUNK, LH REAR
	PH2	22-WAY / BLACK	

**HARNESS IN-LINE CONNECTORS**

Connector	Connector Description / Location	Location
CA1	22-WAY / NATURAL / INSTRUMENT PANEL HARNESS TO CABIN HARNESS	LH 'A' POST / 'A' POST TRIM
CA40	16-WAY / GREY / CABIN HARNESS TO ROOF HARNESS	RH 'A' POST / WINDSHIELD PILLAR
CA230	16-WAY / BLUE / CABIN HARNESS TO INSTRUMENT PANEL HARNESS	LH LOWER 'A' POST / 'A' POST TRIM
CA406	3-WAY / GREY / NAVIGATION HARNESS TO CABIN HARNESS	BELOW LH REAR SEAT CUSHION
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
IP34	10-WAY / NATURAL / INSTRUMENT PANEL HARNESS TO STEERING WHEEL HARNESS	STEERING WHEEL CASSETTE
JB1	42-WAY / BLACK / ENGINE MANAGEMENT HARNESS TO JUNCTION BOX HARNESS	ENGINE COMPARTMENT / LH SIDE
JB129	22-WAY / GREY / JUNCTION BOX HARNESS TO INSTRUMENT PANEL HARNESS	BELOW INSTRUMENT PANEL / LH SIDE
PH11	10-WAY / GREY / CELLULAR PHONE LINK LEAD	LH LOWER 'A' POST / 'A' POST TRIM

**GROUNDS**

Ground	Harness	Location
G14	JB	ENGINE COMPARTMENT / BEHIND POWER DISTRIBUTION FUSEBOX
G39	PH	TRUNK / LH QUARTER PANEL

**FOR CONTROL MODULE PIN-OUT INFORMATION, UNFOLD PAGE TO LEFT.**

The following abbreviations are used to represent values for Control Module Pin-Out data

I	Input	PG	Power Ground	C	CAN Network	D	Serial and Encoded Data
O	Output	SS	Sensor / Signal Supply V	S	SCP Network	V	Voltage (DC)
B+	Battery Voltage	SG	Sensor / Signal Ground	D2	D2B Network	PWM	Pulse Width Modulated

**CAUTION:** The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

**NOTE:** The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted.

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.



**Voice Activation Module**

	Pin	Description and Characteristic
D2	CD2-2	D2B NETWORK RECEIVE
D2	CD4-1	D2B NETWORK TRANSMIT
I	PH2-01	MICROPHONE +
SG	PH2-02	MICROPHONE SHIELD
I	PH2-03	MICROPHONE +
B+	PH2-06	IGNITION SWITCHED POWER SUPPLY (II) (START / RUN STATUS)
B+	PH2-08	IGNITION SWITCHED POWER SUPPLY (I)
PG	PH2-11	POWER GROUND
I	PH2-12	MICROPHONE -
O	PH2-13	MICROPHONE -
O	PH2-14	D2B NETWORK WAKE UP
SG	PH2-15	MICROPHONE SHIELD
B+	PH2-22	BATTERY POWER SUPPLY: B+

**Fig. 16.3**

**COMPONENTS**

Component	Connector(s)	Connector Description	Location
AUDIO UNIT	ID1 IP65 IP106	2-WAY / D2B 20-WAY / BLACK 2-WAY / METALLIC	INSTRUMENT PANEL CENTER
VOICE ACTIVATION MODULE	CD4 PH2	2-WAY / D2B 22-WAY / BLACK	TRUNK, LH REAR
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
STEERING WHEEL	SW4	6-WAY / BLACK	STEERING COLUMN

**HARNESS IN-LINE CONNECTORS**

Connector	Connector Description / Location	Location
CA40	16-WAY / GREY / CABIN HARNESS TO ROOF HARNESS	RH 'A' POST / WINDSHIELD PILLAR
CA406	3-WAY / GREY / NAVIGATION HARNESS TO CABIN HARNESS	BELOW LH REAR SEAT CUSHION
IP34	10-WAY / NATURAL / INSTRUMENT PANEL HARNESS TO STEERING WHEEL HARNESS	STEERING WHEEL CASSETTE
JB1	42-WAY / BLACK / ENGINE MANAGEMENT HARNESS TO JUNCTION BOX HARNESS	ENGINE COMPARTMENT / LH SIDE
JB129	22-WAY / GREY / JUNCTION BOX HARNESS TO INSTRUMENT PANEL HARNESS	BELOW INSTRUMENT PANEL / LH SIDE

**GROUNDS**

Ground	Harness	Location
G39	PH	TRUNK / LH QUARTER PANEL

FOR CONTROL MODULE PIN-OUT INFORMATION, UNFOLD PAGE TO LEFT.

The following abbreviations are used to represent values for Control Module Pin-Out data

I	Input	PG	Power Ground	C	CAN Network	D	Serial and Encoded Data
O	Output	SS	Sensor / Signal Supply V	S	SCP Network	V	Voltage (DC)
B+	Battery Voltage	SG	Sensor / Signal Ground	D2	D2B Network	PWM	Pulse Width Modulated

**CAUTION:** The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

**NOTE:** The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted.

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. 16.4****COMPONENTS**

Component	Connector(s)	Connector Description	Location
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	
	WG9	2-WAY / BLACK	UNDER REAR SPOILER / LH SIDE
	NA12	2-WAY / GREY	BELOW PARCEL SHELF / LH SIDE
NAVIGATION GPS ANTENNA – ESTATE (WAGON)	IP70	22-WAY / BLACK	CENTER CONSOLE
NAVIGATION GPS ANTENNA – SEDAN	IP136	2-WAY / METALLIC	
TELEMATICS DISPLAY	IP137	2-WAY / METALLIC	
	IP138	2-WAY / METALLIC	
	IP139	2-WAY / METALLIC	
	TV1	2-WAY / METALLIC	REAR ROOF TRIM, ABOVE FIXED GLASS
TV ANTENNA AND AMPLIFIER 1	TV2	2-WAY / METALLIC	REAR ROOF TRIM, ABOVE FIXED GLASS
TV ANTENNA AND AMPLIFIER 2	TV3	2-WAY / METALLIC	REAR ROOF TRIM, ABOVE FIXED GLASS
TV ANTENNA AND AMPLIFIER 3	TV4	2-WAY / METALLIC	REAR ROOF TRIM, ABOVE FIXED GLASS
TV ANTENNA AND AMPLIFIER 4			

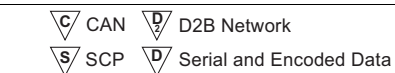
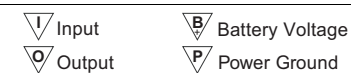
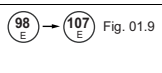
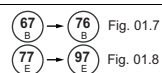
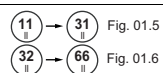
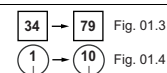
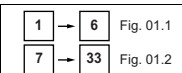
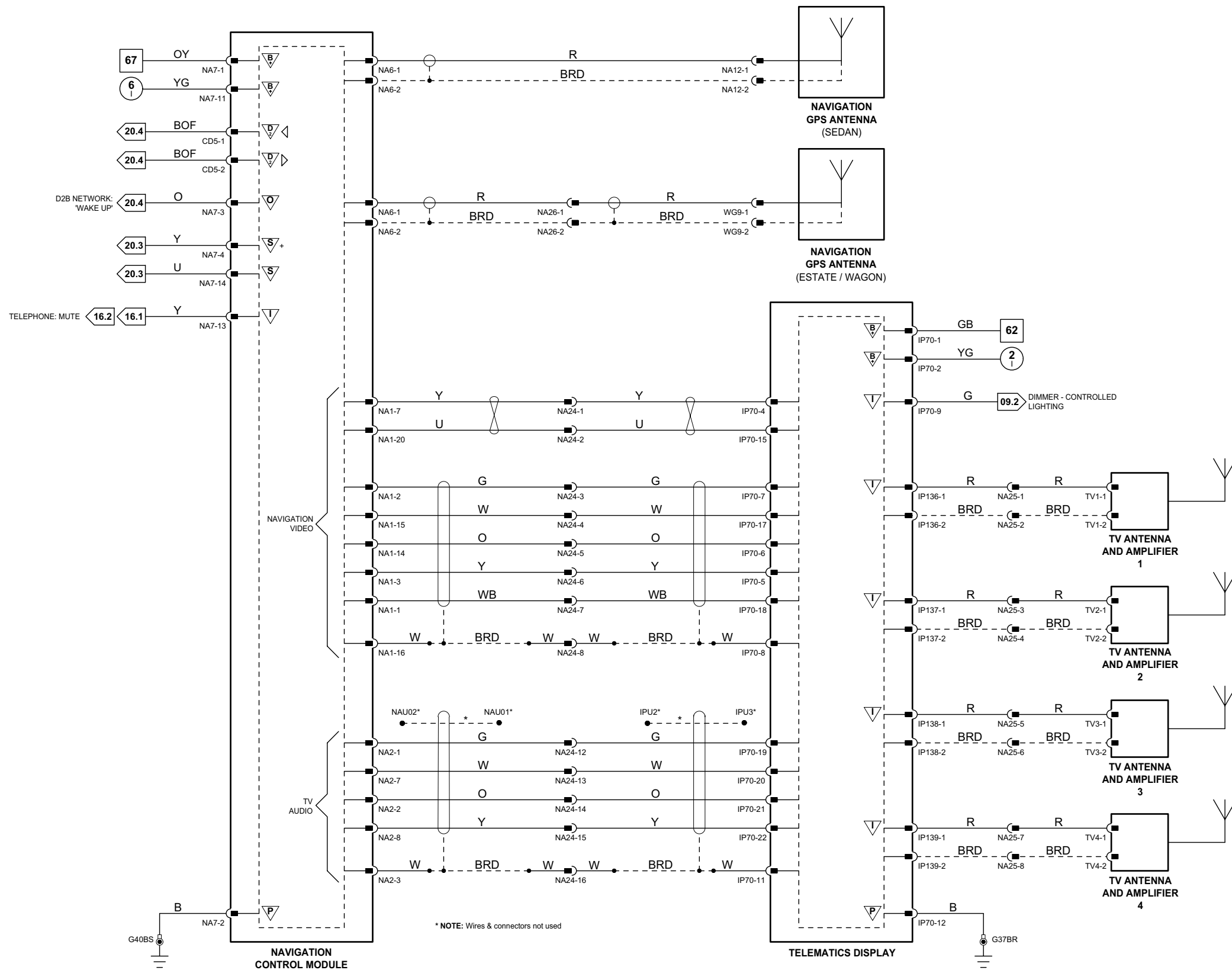
**HARNESS IN-LINE CONNECTORS**

Connector	Connector Description / Location	Location
NA24	16-WAY / GREEN / INSTRUMENT PANEL HARNESS TO NAVIGATION HARNESS	BELOW INSTRUMENT PANEL / LH SIDE
NA25	8-WAY / GREY / INSTRUMENT PANEL HARNESS TO NAVIGATION HARNESS	BELOW INSTRUMENT PANEL / LH SIDE
NA26	2-WAY / BLACK / NAVIGATION HARNESS TO TAIL GATE GLASS HARNESS	SPORTS BRAKE GPS ANTENNA

**GROUNDS**

Ground	Harness	Location
G37	IP	BEHIND INSTRUMENT PANEL / RH SIDE OF CROSS CAR BEAM
G40	NA	TRUNK / LH QUARTER PANEL

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.



VARIANT: NAV Vehicles (except Japan)  
 VIN RANGE: All  
 DATE OF ISSUE: January 2007

**Fig. 16.5****COMPONENTS**

Component	Connector(s)	Connector Description	Location
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	
	WG9	2-WAY / BLACK	UNDER REAR SPOILER / LH SIDE
	NA12	2-WAY / GREY	BELOW PARCEL SHELF / LH SIDE
NAVIGATION GPS ANTENNA – ESTATE (WAGON)	WG9	2-WAY / BLACK	UNDER REAR SPOILER / LH SIDE
NAVIGATION GPS ANTENNA – SEDAN	NA12	2-WAY / GREY	BELOW PARCEL SHELF / LH SIDE
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	
TELEMATICS DISPLAY	IP70	22-WAY / BLACK	CENTER CONSOLE
	IP136	2-WAY / METALLIC	
	IP137	2-WAY / METALLIC	
	IP138	2-WAY / METALLIC	
	IP139	2-WAY / METALLIC	
	TV1	2-WAY / METALLIC	REAR ROOF TRIM, ABOVE FIXED GLASS
TV ANTENNA AND AMPLIFIER 1	TV1	2-WAY / METALLIC	REAR ROOF TRIM, ABOVE FIXED GLASS
TV ANTENNA AND AMPLIFIER 2	TV2	2-WAY / METALLIC	REAR ROOF TRIM, ABOVE FIXED GLASS
TV ANTENNA AND AMPLIFIER 3	TV3	2-WAY / METALLIC	REAR ROOF TRIM, ABOVE FIXED GLASS
TV ANTENNA AND AMPLIFIER 4	TV4	2-WAY / METALLIC	REAR ROOF TRIM, ABOVE FIXED GLASS
VEHICLE INFORMATION ANTENNA AND AMPLIFIER	NA11	2-WAY / METALLIC	SEDAN: BEHIND RH 'E' POST ESTATE (WAGON): REAR ROOF TRIM ABOVE FIXED GLASS / LH SIDE
VEHICLE INFORMATION CONTROL MODULE	NA8	2-WAY / METALLIC	
	NA9	10-WAY / NATURAL	
	NA10	2-WAY / METALLIC	
	CA222	2-WAY / METALLIC	TOP OF INSTRUMENT PANEL / LH SIDE

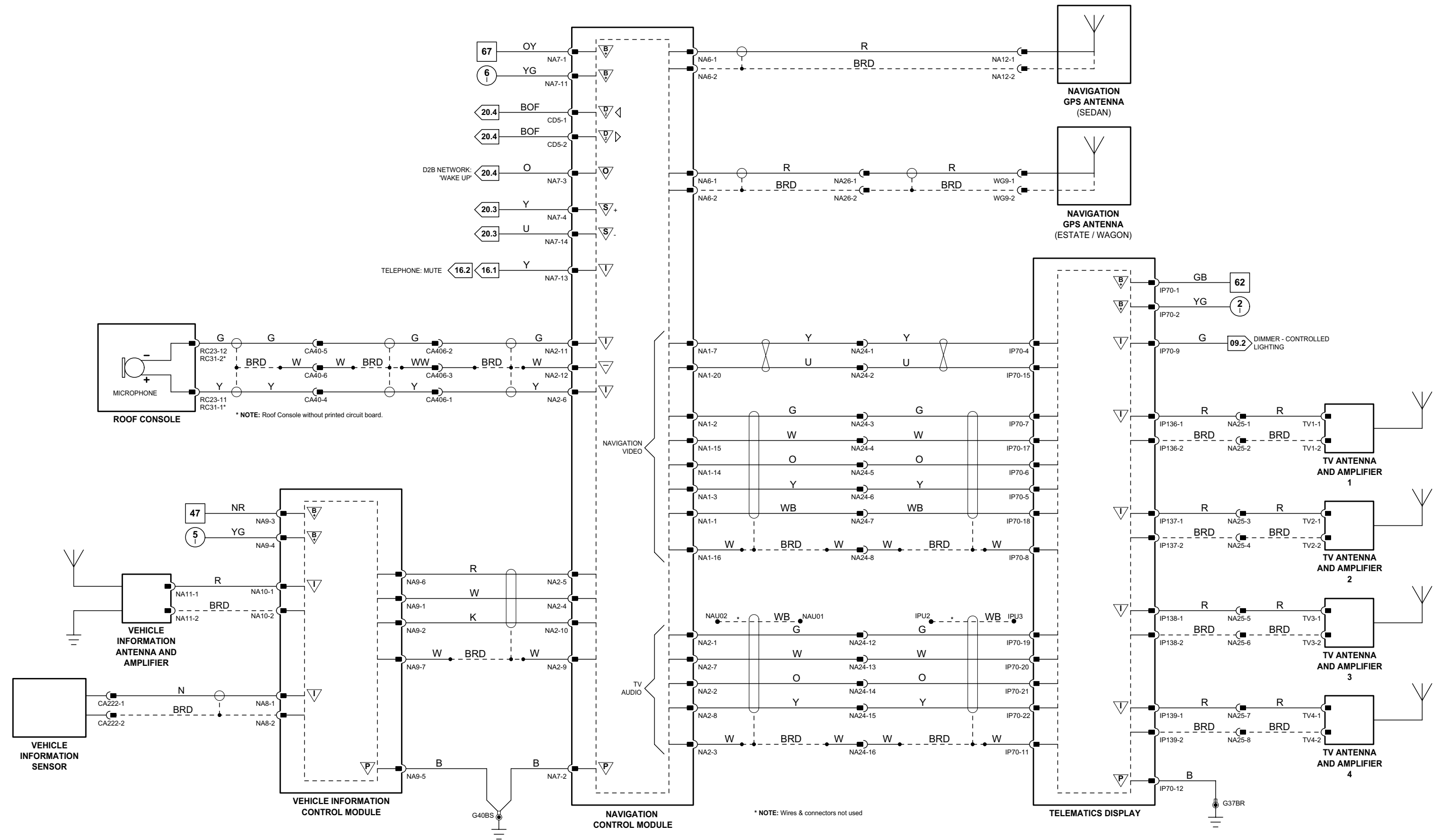
**HARNESS IN-LINE CONNECTORS**

Connector	Connector Description / Location	Location
CA40	16-WAY / GREY / CABIN HARNESS TO ROOF HARNESS	RH 'A' POST / WINDSHIELD PILLAR
CA406	3-WAY / GREY / NAVIGATION HARNESS TO CABIN HARNESS	BELOW LH REAR SEAT CUSHION
NA24	16-WAY / GREEN / INSTRUMENT PANEL HARNESS TO NAVIGATION HARNESS	BELOW INSTRUMENT PANEL / LH SIDE
NA25	8-WAY / GREY / INSTRUMENT PANEL HARNESS TO NAVIGATION HARNESS	BELOW INSTRUMENT PANEL / LH SIDE
NA26	2-WAY / BLACK / NAVIGATION HARNESS TO TAIL GATE GLASS HARNESS	SPORTS BRAKE GPS ANTENNA

**GROUNDS**

Ground	Harness	Location
G37	IP	BEHIND INSTRUMENT PANEL / RH SIDE OF CROSS CAR BEAM
G40	NA	TRUNK / LH QUARTER PANEL

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.



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	Input	Battery Voltage	Sensor/Signal Supply V	CAN	D2B Network
7 → 33 Fig. 01.2	1 → 10 Fig. 01.4	32 → 66 Fig. 01.6	77 → 97 Fig. 01.8		Output	Power Ground	Sensor/Signal Ground	SCP	Serial and Encoded Data

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