

CONTROL MODULE PIN-OUT INFORMATION

Audio Unit

| Pin | Description and Characteristic |
|------------|---|
| D2 ID1-1 | D2B NETWORK TRANSMIT |
| D2 ID1-2 | D2B NETWORK RECEIVE |
| PG IP65-01 | POWER GROUND: GROUND |
| B+ IP65-02 | IGNITION SWITCHED POWER SUPPLY (I): B+ |
| O IP65-03 | LH REAR AUDIO + |
| O IP65-04 | LH REAR AUDIO - |
| O IP65-05 | RH REAR AUDIO + |
| O IP65-06 | RH REAR AUDIO - |
| I IP65-07 | TELEPHONE MUTE SIGNAL |
| O IP65-08 | SECURITY SYSTEM GROUND SENSING: GROUND WHEN AUDIO UNIT INSTALLED |
| S IP65-09 | SCP + |
| S IP65-10 | SCP - |
| B+ IP65-11 | BATTERY POWER SUPPLY: B+ |
| O IP65-13 | LH FRONT AUDIO - |
| O IP65-14 | LH FRONT AUDIO + |
| O IP65-15 | RH FRONT AUDIO - |
| O IP65-16 | RH FRONT AUDIO + |
| I IP65-17 | DIMMER CONTROLLED ILLUMINATION: PWM, 80Hz, GROUND = 0% DUTY CYCLE, B+ = 100% DUTY CYCLE |
| I IP65-18 | STEERING WHEEL SWITCHES: STEPPED RESISTANCE |
| O IP65-19 | D2B NETWORK WAKE-UP |

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

Fig. 15.1

COMPONENTS

| Component | Connector(s) | Connector Description | Location |
|-----------------------------------|----------------------|---|-------------------------|
| AM / FM ANTENNA – ESTATE (WAGON) | CA116 CA118 | 3-WAY / BLACK 2-WAY / BLACK | ROOF CENTER REAR |
| ANTENNA MODULE – SEDAN | CA115 CA117 | 3-WAY / BLACK 2-WAY / BLACK | BEHIND LH 'E' POST TRIM |
| AUDIO CONTROL SWITCHES | SW3 | 4-WAY / BLACK | STEERING WHEEL |
| 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 |
| FULL RANGE SPEAKER – LH REAR | BL4 | 2-WAY / WHITE | LH REAR DOOR |
| FULL RANGE SPEAKER – RH REAR | BR4 | 2-WAY / WHITE | RH REAR DOOR |
| HEATED REAR WINDOW – SEDAN | ZA1 ZA10 | 1-WAY / BLACK 1-WAY / BLACK | REAR WINDOW |
| MID BASS SPEAKER – DRIVER DOOR | DD6 | 2-WAY / WHITE | DRIVER DOOR CASING |
| MID BASS SPEAKER – PASSENGER DOOR | PD5 | 2-WAY / WHITE | PASSENGER DOOR CASING |
| TWEETER SPEAKER – DRIVER DOOR | DD12 | 2-WAY / WHITE | DRIVER DOOR CASING |
| TWEETER SPEAKER – PASSENGER DOOR | PD11 | 2-WAY / WHITE | PASSENGER DOOR CASING |

HARNESS IN-LINE CONNECTORS

| Connector | Connector Description | Location |
|-----------|---|-----------------------------------|
| CA15 | 20-WAY / BLACK / CABIN HARNESS TO DRIVER DOOR HARNESS | DRIVER DOOR / DOOR CASING |
| CA16 | 20-WAY / BLACK / CABIN HARNESS TO DRIVER DOOR HARNESS | DRIVER DOOR / DOOR CASING |
| CA20 | 20-WAY / BLACK / CABIN HARNESS TO PASSENGER DOOR HARNESS | PASSENGER DOOR / DOOR CASING |
| CA21 | 20-WAY / BLACK / CABIN HARNESS TO PASSENGER DOOR HARNESS | PASSENGER DOOR / DOOR CASING |
| CA25 | 14-WAY / NATURAL / CABIN HARNESS TO LH REAR DOOR HARNESS | LH 'B/C' POST / 'B/C' POST TRIM |
| CA30 | 14-WAY / NATURAL / CABIN HARNESS TO RH REAR DOOR HARNESS | RH 'B/C' POST / 'B/C' POST TRIM |
| CA189 | 2-WAY / BLACK / CABIN HARNESS TO INSTRUMENT PANEL HARNESS | LH LOWER 'A' POST / 'A' POST TRIM |
| CA230 | 16-WAY / BLUE / CABIN HARNESS TO INSTRUMENT PANEL HARNESS | LH LOWER 'A' POST / 'A' POST TRIM |
| 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 |

GROUND

| Ground | Harness | Location |
|--------|---------|---|
| G1 | CA | TRUNK / UNDER LH TAIL LAMP UNIT |
| G14 | JB | ENGINE COMPARTMENT / BEHIND POWER DISTRIBUTION FUSE BOX |
| G37 | IP | BEHIND INSTRUMENT PANEL / RH SIDE OF CROSS CAR BEAM |

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.

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| S IP65-10 | SCP - |
| B+ IP65-11 | BATTERY POWER SUPPLY: B+ |
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NOTE: Refer to the Appendix at the rear of this book for Network Messages.

Fig. 15.2

COMPONENTS

| Component | Connector(s) | Connector Description | Location |
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| ANTENNA MODULE – SEDAN | CA115 CA117 | 3-WAY / BLACK 2-WAY / BLACK | BEHIND LH 'E' POST TRIM |
| AUDIO CONTROL SWITCHES | SW3 | 4-WAY / BLACK | STEERING WHEEL |
| 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 |
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| MID BASS SPEAKER – PASSENGER DOOR | PD5 | 2-WAY / WHITE | PASSENGER DOOR CASING |
| MID BASS SPEAKER – RH REAR | BR4 | 2-WAY / WHITE | RH REAR DOOR CASING |
| POWER AMPLIFIER | CA425 CA426 CD7 | 12-WAY / GREY 18-WAY / BLACK 2-WAY / D2B | TRUNK, LH REAR |
| SUB WOOFER – ESTATE (WAGON) | CA428 | 4-WAY / BLACK | RH REAR INTERIOR TRIM |
| SUB WOOFER 1 – SEDAN | CA427 | 4-WAY / WHITE | PARCEL SHELF |
| SUB WOOFER 2 – SEDAN | CA427 | 4-WAY / WHITE | PARCEL SHELF |
| TWEETER SPEAKER – DRIVER DOOR | DD12 | 2-WAY / WHITE | DRIVER DOOR CASING |
| TWEETER SPEAKER – LH REAR | BL7 | 2-WAY / WHITE | LH REAR DOOR CASING |
| TWEETER SPEAKER – PASSENGER DOOR | PD11 | 2-WAY / WHITE | PASSENGER DOOR CASING |
| TWEETER SPEAKER – RH REAR | BR9 | 2-WAY / WHITE | RH REAR DOOR CASING |

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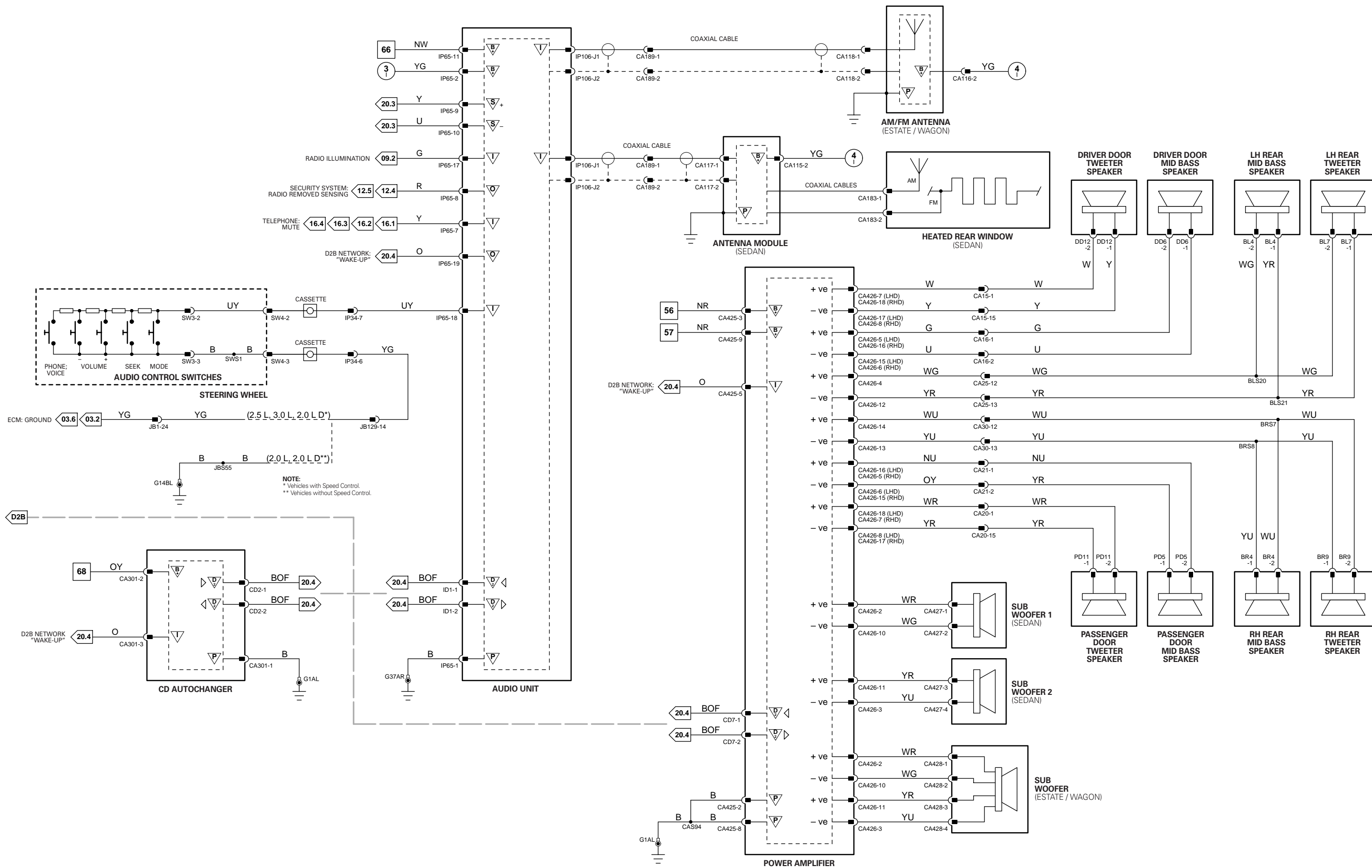
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| | | | | | | | | | | | | | | | | | | | |
|--------|-----------|---------|-----------|---------|-----------|---------|-----------|----------|-----------|---|--------|---|-----------------|---|------------------------|---|-----|---|-------------------------|
| 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 | ▽ | 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: Premium ICE Vehicles
 VIN RANGE: All
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