

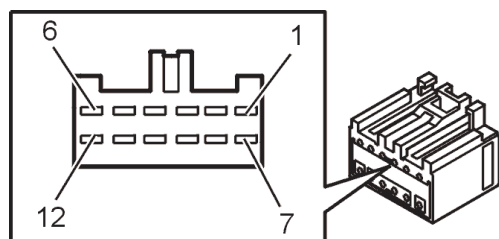
## Signal specification, audio control module

### Connecting the breakout box and checking the ground terminal

**Caution!** Before taking readings, the breakout box must be connected and the ground terminal must be checked. See [Checking the ground terminals](#) .

#### Definitions

DC voltage in volts (V)	Ulow = Voltage near 0 V
	Ubat = Battery voltage



#### The audio control module, green connector

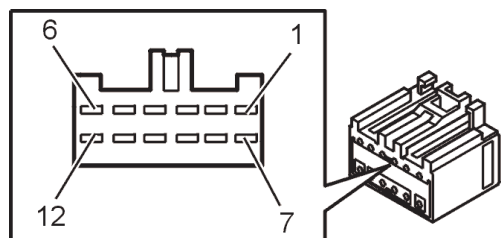
**Note!** The connectors on the adapter cable must be correctly colored to correspond to the signal table.

Before taking any readings, see [Connecting the breakout box and checking the ground terminal](#) .

Control module terminal	Breakout box terminal	Signal type	Ignition on	Other
A1	#15	30 supply	Ubat	-
A2	#16	15 supply	Ubat	-
A3	#17	-	-	-
A4	#18	-	-	-
A5	#19	-	-	-
A6	#20	-	-	-
A7	#21	CANH	Digital signal 2-3 V	-
A8	#22	CANL	Digital signal 2-3 V	-
A9	#23	Power supply, aerial amplifier	11 V	-
A10	#24	Audio channel (+), centre loudspeaker	Alternating current at sound in centre loudspeaker	-
A11	#25	Audio channel (-), centre loudspeaker	Alternating current at sound in centre loudspeaker	-
A12	#26	Ground	Ulow	-

#### Audio control module (AUM)/External amplifier

to loudspeakers, gray connector



**Note!** The connectors on the adapter cable must be correctly colored to correspond to the signal table.

Before taking any readings, see [Connecting the breakout box and checking the ground terminal](#) .

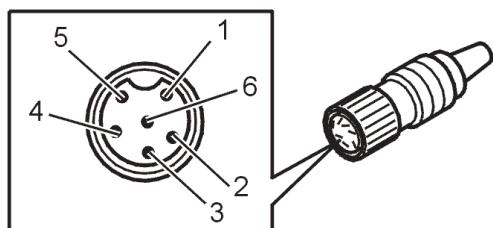
Control module terminal	Breakout box terminal	Signal type	Ignition on	Other
B1	#1	Audio channel (+), loudspeaker left front	AC voltage (to pin 2) when sound in the left front loudspeakers	-
B2	#2	Audio channel (-), loudspeaker left front	AC voltage (to pin 1) when sound in the left front loudspeakers	-
B3	#3	-	-	-
B4	#4	-	-	-
B5	#5	Audio channel (+), loudspeaker right front	Alternating current (to pin 6) when sound in the right front loudspeakers	-
B6	#6	Audio channel (-), loudspeaker right front	Alternating current (to pin 5) when sound in the right front loudspeakers	-
B7	#7	Audio channel (+), loudspeaker left rear	Alternating current (to pin 8) when sound in the left rear loudspeakers	-
B8	#8	Audio channel (-), loudspeaker left rear	Alternating current (to pin 7) when sound in the left rear loudspeakers	-
B9	#9	-	-	-
B10	#10	-	-	-
B11	#11	Audio channel (+), loudspeaker right rear	Alternating current (to pin 12) when sound in the right rear loudspeakers	-
B12	#12	Audio channel (-), loudspeaker right rear	Alternating current (to pin 11) when sound in the right rear loudspeakers	-

Audio control module (to aerial)

Before taking any readings, see [Connecting the breakout box and checking the ground terminal](#) .

Control module terminal	Breakout box terminal	Signal type	Ignition on	Other
C1	#45	Aerial signal, head aerial	Analogue signal	-
C2	#46	Power supply and aerial signal, sub aerial	Analogue signal	The aerial signal is retained over DC

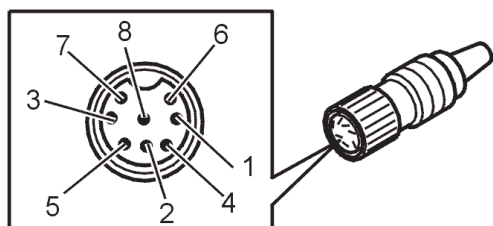
Audio control module (cable between the audio module and the amplifier)



Before taking any readings, see [Connecting the breakout box and checking the ground terminal](#).

Control module terminal	Breakout box terminal	Signal type	Ignition on	Other
D1	#42	Audio channel, loudspeaker left front	Alternating current when sound at front left loudspeaker	-
D2	#43	Audio channel, loudspeaker right front	Alternating current when sound at front right loudspeaker	-
D3	#44	Audio channel, loudspeaker right rear	Alternating current when sound at right rear loudspeaker	-
D4	#45	Signal ground, audio channel	Ulow	-
D5	#46	Audio channel, loudspeaker left rear	Alternating current when sound at left rear loudspeaker	-
D6	#47	Control signal (off / on) amplifier	?	-

Audio control module (cable between the audio module and the CD changer/navigation unit)



Before taking any readings, see [Connecting the breakout box and checking the ground terminal](#).

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Control module terminal	Breakout box terminal	Signal type	Ignition on	Other
E1	#16	Clock signal to audio unit	Digital signal	-
E2	#17	Signal ground, sound	Ulow	-
E3	#18	15 supply	Ubat	-
E4	#19	Data signal to audio unit	Digital signal	-
E5	#20	Busy signal to audio unit	Digital signal	-
E6	#21	Left audio channel	Alternating current when there is sound to the loudspeaker	-
E7	#22	Right audio channel	Alternating current when there is sound to the loudspeaker	-
E8	#23	Voice guide channel	Alternating current when there is sound to the loudspeaker	-
H		Screen ground, cable to audio unit	Ulow	-

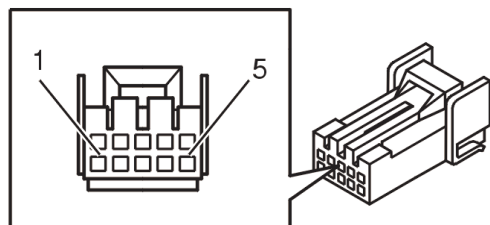
### External amplifier

Before taking any readings, see [Connecting the breakout box and checking the ground terminal](#) .

Control module terminal	Signal type	Ignition on	Other
F1	30 supply	Ubat	-
F2	Ground	Ulow	-

### 10CD changer

Before taking any readings, see [Connecting the breakout box and checking the ground terminal](#) .



Control module terminal	Signal type	Ignition on	Other
G1	30 supply	Ubat	-
G2	Ground	Ulow	-
G3			

G4			
G5			