

394: Signal specification, Carphone module

V70 XC (01-) / XC70 (-07), 2006, D5244T4, TF-80SC

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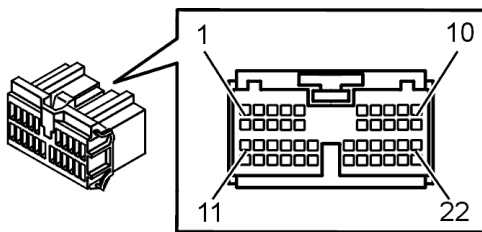
394: Signal specification, Carphone module**Signal description. Phone module (PHM)**

Connecting the breakout box and checking the ground terminal

Note! It is important to connect the breakout box and check ground terminals before taking readings.

Definitions

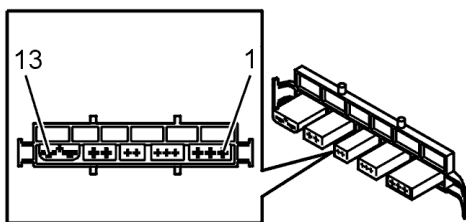
DC voltage in volts (V)	Ulow = Voltage near V
	Ubat = Battery voltage

Connector A, carphone module (PHM)

Control module terminal	Breakout box terminal	Signal type	Ignition on	Other
A1	#1	Hands-free microphone, signal	Alternating current when there is sound from the hands-free microphone	-
A2	#2	Handset signal, ground	Ulow	-
A3	#3	Handset signal, microphone	Alternating current when there is sound from the handset microphone	Difficult to measure
A4	#4	Signal hands-free speaker (-)	Alternating current when there is sound in the hands-free loudspeaker	-
A5	#5	Signal hands-free speaker (+)	Alternating current when there is sound in the hands-free loudspeaker	-
A6	#6	30 supply	Ubat	-
A7	#7	-	-	-
A8	#8	-	-	-

A9	#9	-	-	-
A10	#10	CANL	Digital signal	-
A11	#11	Hands-free microphone, ground	Ulow	-
A12	#12	Signal, handset, loudspeaker	Alternating current when there is sound in the handset loudspeaker	-
A13	#13	Power supply, handset	12 V	-
A14	#14	Cradle signal, handset	U=8 V at cradle off, cradle on U=0 V, Disconnected connector U=5 V	-
A15	#15	-	-	-
A16	#16	-	-	-
A17	#17	Collision cable from the SRS	U=12 V when activated SRS, otherwise U=0 V	-
A18	#18	Ground	Ulow	-
A19	#19	-	-	-
A20	#20	-	-	-
A21	#21	-	-	-
A22	#22	CANH	Digital signal	-

Connector B, hands-free speaker connector on the carphone module (PHM)

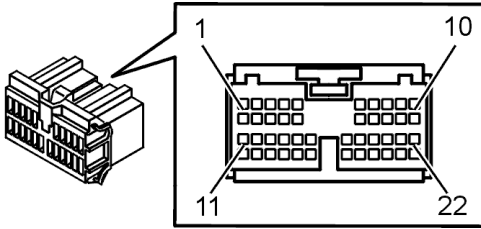


Control module terminal	Breakout box terminal	Signal type	Ignition on	Other
B9	#9	Signal hands-free speaker (+)	Alternating current when there is sound in the hands-free loudspeaker	-
B10	#10	Signal hands-free speaker (-)	Alternating current when there is sound in the hands-free loudspeaker	-

Connector C, hands-free

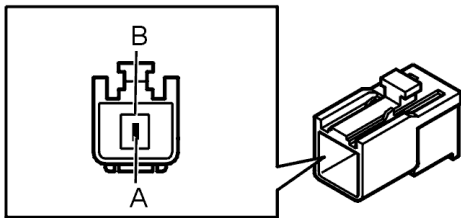
microphone connector in the A-post

Connector for cars manufactured up to week 34, 2001 inclusive



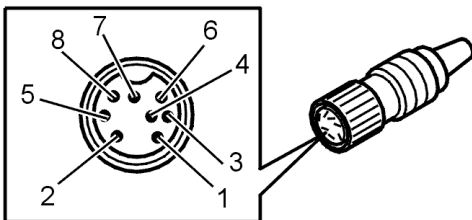
Control module terminal	Breakout box terminal	Signal type	Ignition on	Other
C8	#8	Hands-free microphone, signal	Alternating current when there is sound from the hands-free microphone	-
C18	#18	Hands-free microphone, ground	Ulow	-

Connector for cars manufactured from week 35, 2001 inclusive



Control module terminal	Breakout box terminal	Signal type	Ignition on	Other
A	-	Hands-free microphone, signal	Alternating current when there is sound from the hands-free microphone	-
B	-	Hands-free microphone, ground	Ulow	-

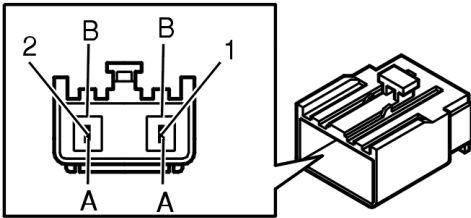
Connector D, Handset connector



Control module terminal	Breakout box terminal	Signal type	Ignition on	Other
D1	#32	-	-	-
D2	#33	-	-	-
D3	#34	Handset signal, microphone	Alternating current when there is sound from the handset microphone	-
D4	#35	Signal, handset. loudspeaker	Alternating current when there is sound in the handset loudspeaker	-
D5	#36	Handset signal, ground	Ulow	-
D6	#37	Cradle	U=8 V at	-

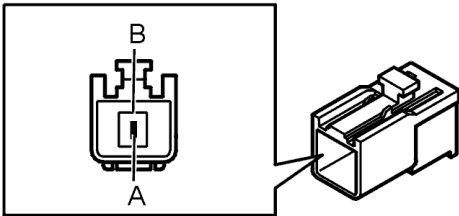
		signal, handset	cradle off, cradle on U=0 V, Disconnected connector U=5 V	
D7	#38	Power supply, handset	12 V	-
D8	#39	-	-	-

Connector E, GPS/carphone antenna, double Hirose GT5 in the right A-post



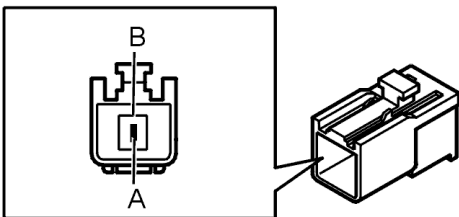
Control module terminal	Breakout box terminal	Signal type	Ignition on	Other
1A	-	Antenna signal carphone	-	-
1B	-	Shield ground antenna signal	-	-
2A	-	Antenna signal GPS	-	-
2B	-	Shield ground antenna signal	-	-

Connector F, carphone antenna (brown connector), single Hirose GT5



Control module terminal	Breakout box terminal	Signal type	Ignition on	Other
A	-	Antenna	Antenna signal carphone	-
B	-	GND (shield)	Shield ground antenna signal	-

Connector G, GPS- antenna (gray connector), single Hirose GT5

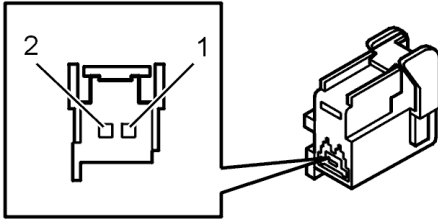


Note! Applies only to carphones with Volvo On Call.

Control module terminal	Breakout box terminal	Signal type	Ignition on	Other
A	-	Antenna	Antenna signal GPS	-

B	-	GND (shield)	Shield ground antenna signal	-
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**Connector H, Hands-free
microphone. Only on cars
manufactured up to week 34,
2001 inclusive**



Control module terminal	Breakout box terminal	Signal type	Ignition on	Other
1	-	HF MIC signal	Hands-free microphone signal	Alternating current when there is sound from the hands-free microphone
2	-	HF MIC ground	Hands-free microphone ground	Ulow

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