CCC housing: E60, E61, E63, E64, E70, E87, E90, E91, E92, E93, R56

Installation location

The Car Communication Computer (CCC) is located in the centre console.

Construction

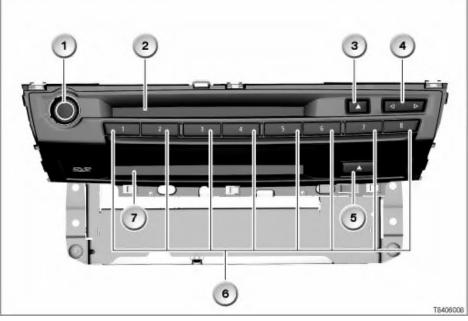
> E60, E61, E63, E64, E87, E90, E91, E92



The illustration shows the example of the CCC on the E60.

ltem	Description	Item	Description
1	Rotary push button for switching on and off and for adjusting the volume.	2	Slot for audio CD or for CD-ROM (MD on Japanese version)
3	Slot for DVDs	4	Eject button for audio CD or for CD-ROM/MD
5	Search rocker switch	6	Eject button for DVD
7	Cover panel for extension with PCMCIA card		

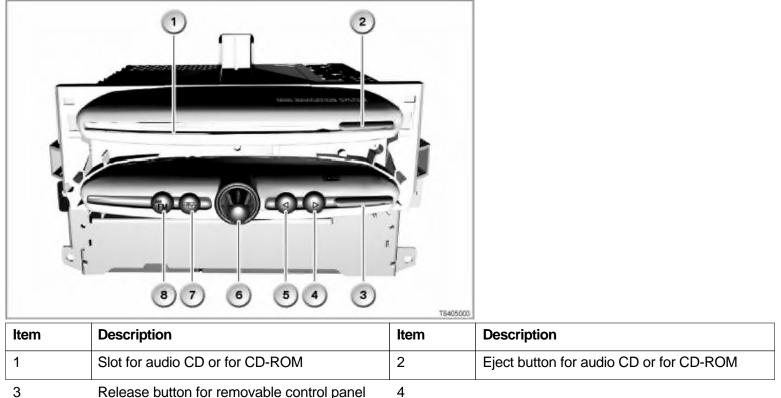
> E70 and E93 from start of series production



The illustration shows the example of the CCC on the E70.

ltem	Description	Item	Description
1	Rotary push button for switching on and off and for adjusting the volume.	2	Slot for audio CD or for CD-ROM (MD on Japanese version)
3	Eject button for audio CD or for CD-ROM/MD	4	Search rocker switch
5	Eject button for DVD	6	8 favorites buttons
7	Slot for DVD		

> R56

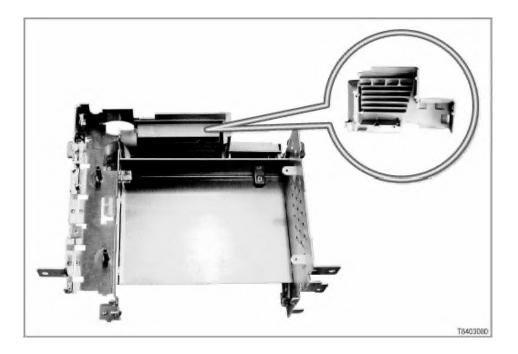


Release button for removable control panel

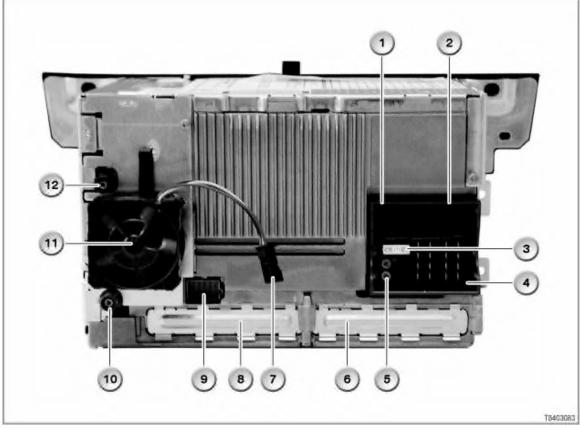
			Change radio station or track, or search "forwards" (function depends on the audio source selected)
5	Change radio station or track, or search "back" (function depends on the audio source selected)	6	Rotary push button for switching on and off and for adjusting the volume.
7	Mode button (to select audio source)	8	FM button and AM button (change frequency)

The Car Communication Computer (CCC) has a pressure-cast aluminium housing. The housing is a combination of pressure-cast aluminium and aluminium plate sheet. In the pressure-cast aluminium sections, there are air ducts for cooling the components.

The following illustration shows the CCC housing with air duct.



- Pin assignment



The illustration shows the example of the CCC on the E60.

ltem	Description	on	Item	Description	
1	Connecto	r X13813, 12-pin	2	Connector X13814, 12-pin	
3	Fuse		4 Connector X13812, 16-pin		
5	MOST bu pin	s connection, connector X13815, 2-	6	Cover panel for PMC 1 extension card	
7	Connectio	on for electric fan	8	Cover panel for PMC 2 extension card	
9	LVDS (Low Voltage Differential Signalling) connection, connector X13820, 10-pin > E70:connector X10772		10	GPS aerial connection (Global Positioning System), connector X13817, 2-pin	
11	Electric fa	าก	12	Radio aerial connection, connector X13816, 2-pin	
Pin assig	nment for co	nnector X13812, 16-pin black	1		
Pin	Туре	Description			
1	A Positive wire to loudspeaker, rear right				

А	Positive wire to loudspeaker, rear right
А	Positive wire to loudspeaker, front right
A	Positive wire to loudspeaker, front left
А	Positive wire to loudspeaker, rear left
А	Negative wire to loudspeaker, rear right
А	Negative wire to loudspeaker, front right
А	Negative wire to loudspeaker, front left
	A A A A A

8	A	Negative wire for loudspeaker, rear left			
9	E/A	K-CAN Low			
10	E	Radio mute			
11	E/A	K-CAN High			
12	М	Terminal 31			
13	A	Switch signal for TOP-HiFi amplifier and aerial diversity ON			
14	E	Terminal 58g, locating light			
15	V	Power supply, terminal 30g-f > E60, E61, E63, E65 until 09/2005: Terminal 30g			
16					
Pin assid	A = Output E = Input E/A = Input and output M = Earth V = Supply For current specifications regarding pin assignments, please refer to BMW diagnosis system				
Pinassi		Description			
1	A	Power supply for fan			
2	E				
3	A	Positive wire for additional audio input, left			
	A	Positive wire for bass loudspeaker, left			
4	A	Positive wire for bass loudspeaker, right			
5		Earth connection for fan			
6	E	Positive wire for voice signal			
7	E	Positive wire for additional audio input, right			
8	A	Negative wire for additional audio input			
9	A				
10	A	Negative wire for bass loudspeaker, left			
11	E	Signal wire for fan (for diagnosis)			
12	A	Negative wire for voice signal			
Pin assid	E = Input A = Output For current specifications regarding pin assignments, please refer to BMW diagnosis system				
Pinassi	Pin assignment for connector X13814, 12-pin Pin Type Description				
1	Type A	Positive wire for microphone (discontinued from 09/2005)			
2	E	Negative wire for RGB signal			
3	E	Signal wire for RGB red			
		Signal wire for RGB red 3 E64 E70 E87 E90 E91 E92 E93 E56 BMW AG - TIS 03 11 2007 16:2			

4	E	Signal wire for RGB green			
5	E	Signal wire for RGB blue			
6	A	Negative wire for microphone (discontinued from 09/2005)			
7	E	Signal wire			
8	А	Signal wire			
9	E	Signal wire			
10	А	Signal wire			
11	E	Signal wire			
12	E > E60 until 09/04: Speed signal for acoustic warning, depending on national version > E60 from 00/04 and E61, E63, E64, E87, E70, E90, E91, E92, E93, R56 Speed signal via K-CAN. This PIN is no longer used.				
Din coci	E = Input A = Output For current specifications regarding pin assignments, please refer to BMW diagnosis system				
	n assignment for connector X13815, 2-pin				
Pin	Туре	Description			
1	E	MOST bus			
2	A	MOST bus			
	A = Outpu E = Input For curren	t specifications regarding pin assignment, please refer to BMW diagnosis system			
Pin assi	gnment for con	nector X13820, 10-pin; (E70:connector X10772)			
Pin	Туре	Description			
1	A	Positive wire for RGB blue signal			
2	A	Negative wire for RGB blue signal			
3					
4	А	Positive wire for RGB green signal, including synchronous pulse			
5	А	Negative wire RGB green signal, including synchronous pulse			
6	A	Positive wire for timing signal			
7	A	Negative wire for timing signal			
8					
9	A	Positive wire for RGB red signal			
10	A	Negative wire for RGB red signal			
	A = Outpu For curren	t t specifications regarding pin assignments, please refer to BMW diagnosis system			