

PCCM+ 9x7.II

NOTICE

Voltage peaks

- Damage to electrical load or to control unit
- ⇒ Remove the ignition key and switch off load before disconnecting or removing load.

NOTICE

Software version

- Fault-free functioning
- ⇒ Before converting to the new device, it must be ensured that the old sound system is functional and is up to date with the latest software version.



Information

The amplifiers cannot be updated to the latest software version with the new PCCM+.



Information

The PCCM+ is only available in black OK1. A leather-covered or differently colored version is not available.



Information

These instructions are not for vehicles with the M-number: 675 "Without radio preparation (Japan Navigation System)".

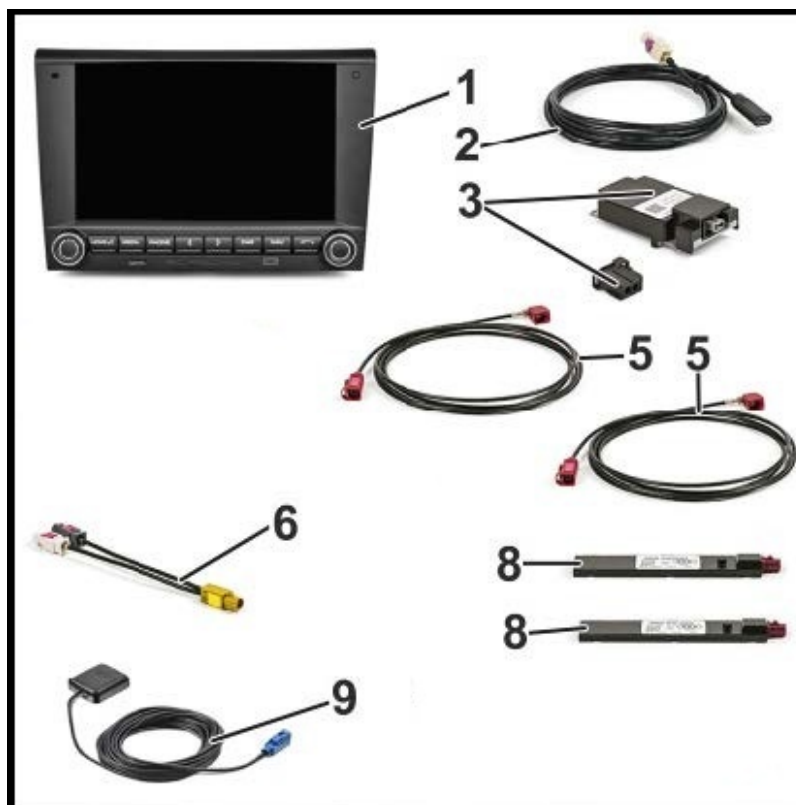
Vehicle Type: **997.II & 987.II (Boxster/ Cayman)**

Model Year: **As of 2009 up to 2013**

Restriction: 997.II (MY 2009 - 2013)
987.II (MY 2009 - 2012)

*PCCM+*

PCCM+ Parts
List:



PCCM+ Parts List

Part No.	Number	Designation	Note
997.642.601.00	1 x	PCCM+ 9x7.II - North America (USA, Canada and Mexico) ⇒ PCCM+ Parts List -1-	
PCG.073.900.A	1 x	USB connecting line ⇒ PCCM+ Parts List -2-	Is required if the customer needs an additional USB-C charging cable in the glove compartment or in the center console.
PCG.642.580.A	1 x	Optical waveguide control unit ⇒ PCCM+ Parts List -3-	Is required for the BOSE Sound System.
PCG.642.630.A	2 x	4G connecting cable ⇒ PCCM+ Parts List -5-	Is required twice.
PCG.642.650.A	1 x	Connector bridge Y-piece ⇒ PCCM+ Parts List -6-	For all vehicles in which the PR=440 (Diversity) was installed.
9A7.035.504.00 (4M0.035.504)	See Note	4G antenna ⇒ PCCM+ Parts List -8-	Is required twice.
911.645.505.00	1 x	GPS antenna ⇒ PCCM+ Parts List -9-	Is not required if PR 672 (2009-PCM 3 navigation off-road) is present/GPS antenna was supplied.

Preliminary
Work:

Ignition off, switch off PCM.

Removing and installing PCM display and operator control unit. ⇒ *Workshop Manual 'Removing and installing PCM display and operator control unit'*

Installing:

- 1 Fit 4G antenna analogously ⇒ *Antenna overview, right*. Install a second 4G antenna on the left A-pillar as well. **When connecting to the PCCM+, it must be ensured that Port 8 (Main) is occupied with the 4G antenna.** Port 10 is for support only.

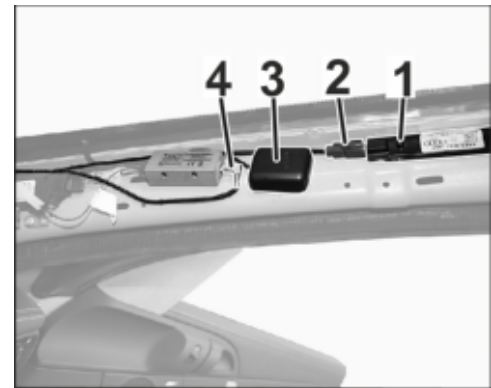
If no PCM including navigation was previously installed: Install GPS antenna analogously ⇒ *Antenna overview, right*.

- 1 – 4G antenna (9A7.035.504.00)
- 2 – 4G connection cable (PCG.642.630.A)
- 3 – GPS antenna (991.645.505.00)
- 4 – Retrofit kit for antenna amplifier (PCG.642.620.A)

- 1.1 Connect the retrofit kit for antenna amplifier (PCG.642.620.A) ⇒ *Antenna overview, right -4-* to the antenna amplifier.

- 1.2 Connect 4G connection cable (PCG.642.630.A) ⇒ *Antenna overview, right -2-* to the 4G antenna.
Fit the 4G antenna (9A7.035.504.00) using the adhesive pad set (PCG.642.670.A) ⇒ *Antenna overview, right -1-*.

- 1.3 Lay antenna cable from antenna amplifier, GPS antenna & 4G antenna along the A-pillar through the right footwell to PCCM+.



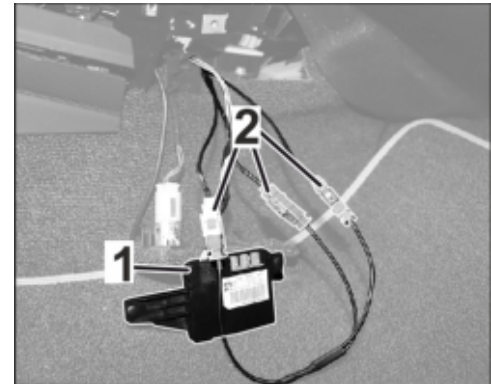
Antenna overview, right

- 2 **Only if PR number 440/ PCM was originally installed:**
Remove ⇒ *Antenna diversity -1-* antenna control unit.
⇒ *Workshop Manual 'Removing and installing antenna control unit'*

- 1 – Antenna diversity
- 2 – Connector bridge Y-piece (PCG.642.650.A)

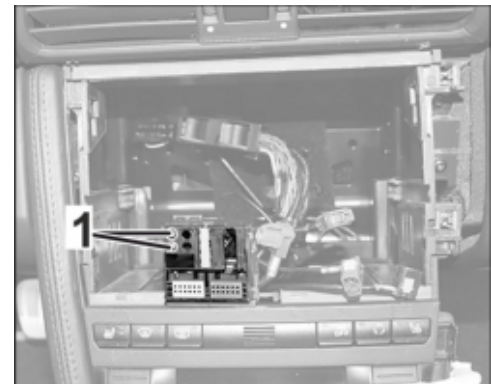
- 2.1 Connect antenna cable with connector bridge Y-piece (PCG.642.650.A) ⇒ *Antenna diversity -2-*. The connector bridge Y-piece (PCG.642.650.A) can be plugged into the previously disconnected FAKRA plugs (white, grey and curly) as desired.

- 2.2 Install ⇒ *Antenna diversity -1-* antenna control unit. ⇒ *Workshop Manual 'Removing and installing antenna control unit'*



Antenna diversity

- 3 **Only with Bose (except Bose Japan):** Disconnect MOST bus line ⇒ *MOST bus line -1-* from the large square connector. Then insert it into the supplied retrofit connector (from optical waveguide control unit PCG.642.580.A).



MOST bus line

- 3.1 Remove cover ⇒ *Optical waveguide control unit -1-* from PCCM+.
- 3.2 Remove protective sleeve from the optical waveguide control unit (PCG.642.580.A).
- 3.3 Fit optical waveguide control unit (PCG.642.580.A) to the PCCM+.
- 4 When retrofitting, only the USB slot is supported on the media interface. The slots for iPod and AUX are then not functional.

When retrofitting the USB connection line (PCG.073.900.A), this must be routed to the glove compartment, the front center console or the rear center console, for example, as requested by the customer.



Optical waveguide control unit

- 5 Complete vehicle in reverse order.
- 5.1 Connect and install PCCM+ as per the connection diagram. ⇒ *Workshop Manual 'Removing and installing PCM display and operator control unit'*

If a curly FAKRA plug is installed in the vehicle, it must not be connected to the new PCCM+.

Connection diagram:

Plug connection number	Plug connection designation	NAR	NAR without PR 440
1	Third-party RFK	RFK (white)	RFK (white)
2	Not assigned	/	/
3	Instrument cluster	/	/
4	FM	FM antenna (FAKRA black)	FM antenna (FAKRA black)
5	Slave FM	if available, FM antenna (FAKRA black)	/
6	Universal interface	Color-Poka-Yoke curly/curly	Color-Poka-Yoke curly/curly
7	USB extension cables	Color-Poka-Yoke white/white	Color-Poka-Yoke white/white
8	4G Master	Color-Poka-Yoke purple/purple via PCG.642.630A	Color-Poka-Yoke Bordeaux red/Bordeaux red via PCG.642.630A

9	GPS	According to the blue-to-blue color Poka-Yoke	According to the blue-to-blue color Poka-Yoke
10	4G Slave	Color-Poka-Yoke Bordeaux red/Bordeaux red via PCG.642.630A	Color-Poka-Yoke Bordeaux red/Bordeaux red via PCG.642.630A
Other:		FAKRA curry (HD RADIO/XM) must not be plugged in.	FAKRA curry (HD RADIO/XM) must not be plugged in.

Coding:

6 Maintain PCCM+ in vehicle data

6.1 Preparatory work – Coding

NOTICE

Control unit programming will be aborted if the Wi-Fi connection is unstable.

- **An unstable Wi-Fi connection can interrupt communication between PIWIS Tester and the vehicle communication module (VCI). As a result, control unit programming may be aborted.**

⇒ **For control unit programming, always connect the PIWIS Tester to the vehicle communication module (VCI) via the USB cable.**

6.1.1 Connect **P90999 - P90999 - PIWIS Tester 4** to the vehicle and switch it on.

6.1.2 Switch on ignition **AND** hazard warning lights on the vehicle.



Information

The **PIWIS Tester** instructions take precedence since the description may be different with later Tester releases.

The procedure described here has been laid out in general terms. Different text or additional information may appear on the **PIWIS Tester**.

6.1.3 Select the "Diagnostics" menu item on the PIWIS Tester.

6.1.4 If **P90999 - P90999 - PIWIS Tester 4** is connected correctly, a connection to the vehicle will be established: "Model line 997 or model line 987" is detected.

6.1.5 Create a vehicle analysis log (VAL) in the "Overview" menu item.



Information

Before coding is performed in the PCSS, check the current equipment status of the instrument cluster.

6.2

**Information**

The function is **ONLY** available when the Tester is online!

Enter the new vehicle equipment in the vehicle data using "PIWIS Online".

6.2.1 Select the function "Control unit selection" in the menu item "Diagnosis".

Select the instrument cluster and continue with **[F12]**.

6.2.2 In the "Control unit overview" column, select the "Instrument cluster" control unit.

Select column 7 "Coding/ programming" and open the function "Basic coding".

6.2.3 The following PR numbers/ equipment must now be selected:

619-MOB. PHONE PREP. BLUETOOTH W/O CONSOLE

665-PCM-BASIC MODULE (INCL: RADIO)

666-PCM-TELEPHONE (GSM)

670-PCM-NAVIGATION

The previously checked equipment from PCSS must also be selected in the coding.

Otherwise the control unit loses these functions. Press **[F12]** to continue

6.2.4 Data is then written/saved. The following information appears one after the other:

- Vehicle data is being transferred to PIWIS Online.
- Vehicle data is being written and transferred to the vehicle.
- Vehicle order written successfully.
- A check was performed in order to check whether control units have to be coded as a result of the changes that were made.

6.3 Read out the fault memory of all systems, correct any existing faults, and erase the fault memory. ⇒ *Workshop Manual 'Fault memory for on-board diagnosis'*

6.4 Switch off ignition and disconnect **P90999 - P90999 - PIWIS Tester 4**.

6.5 Disconnect the battery charger. ⇒ *Workshop Manual '2X00IN Battery trickle charge'*

7 Allocation list set-up list/PR numbers

Set-up assistant	997.II	987.II
Park Assistant	635	635
Automatic air conditioning	573	573
Halogen headlights	≠ 601/603	≠ 601/603
Bi-Xenon headlights	601	601
Rear wiper	425	425
Microphone	618/619/666/668/669	618/619/666/668/669
Rain sensor	268	265/268
Sound Package	441	441

Sound Package Plus	490	490
BOSE® Surround Sound System	680	680
BOSE® Surround Sound System Japan	680 + 193	680 + 193
Multifunction steering wheel	431/451/452/453/844/845/847/XPU/XPV	431/451/452/453/844/845/847/XPU/XPV
Individual Memory (only in combination with fully electric Sportseat or adaptive Sportseat Plus)	377/378/437/438	377/378/437/438

7.1 Update PCCM+ to the current software version. (A USB-C stick with a size of 8-32 GB & NTFS or ExFAT formatting must be used.)

7.1.1 Opening settings.

7.1.2 Select system.

7.1.3 Perform software update. (Software can be downloaded by scanning the QR code or via the following link: <https://www.porsche.com/international/accessoriesand-service/classic/producthighlights/pccm/manuals/>)

"Frequently Asked Questions" can also be found under the QR code.

7.2 Carry out map updates.

7.2.1 Connect a device via Wi-Fi

7.2.2 Open the navigation app.

7.2.3 load current map updates.

7.3 In order to improve device performance, irrelevant map data can be removed.

7.3.1 Open the navigation app.

7.3.2 Open device settings.

7.3.3 Select maps.

7.3.4 Delete superfluous map data: Press and hold the map material to be removed ("Long Press").



QR code

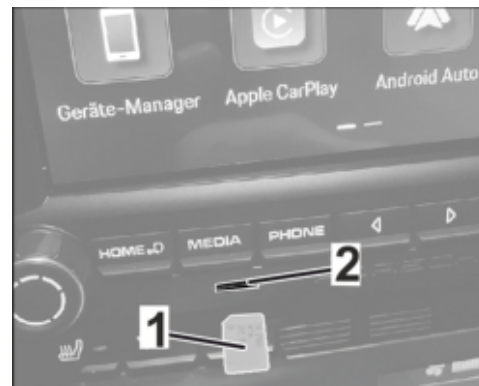


Information

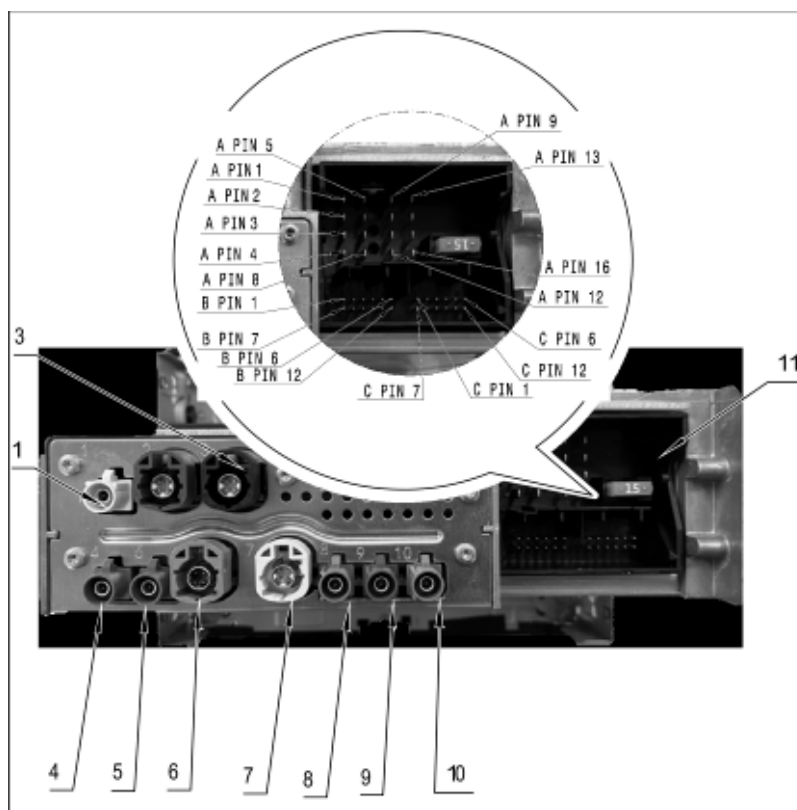
A SIM card must be inserted for full functionality.

Insertion direction: The SIM card is inserted into the device/ PCCM+ with the slanted short side of the card first and with the chip facing downwards.

- 8 Carry out functional check (connectivity, turn-by-turn, media and navigation).



SIM card insertion direction



PCCM+ plug connections

Plug connection 1- CVBS_CAM_Conn (White) (optional interface for rear view camera PAL/NTFS)

Pin	Designation
1	CVBS VIDEO IN
2	SHIELD

Plug connection 3 LVDS1_Conn (Black)

1	LVDS +
3	LVDS –

Plug connection 4 FM/AM/DAB_ANT_Conn (Waterblue)

1	AM/FM1/DAB1 ANT IN
2	SHIELD

Plug connection 5 Fm1_ANT_Conn (Waterblue)

1	FM2 ANT IN
2	SHIELD

Plug connection 6 USB1_Conn (Curry)

1	DATA -
2	GND
3	DATA +
4	VBUS

Plug connection 7 USB2_Conn (White)

1	DATA +
2	VBUS
3	DATA -
4	GND

Plug connection 8 4G_MAIN_ANT (Bordeaux violet)

1	4G ANT IN
2	SHIELD

Plug connection 9 GPS_ANT_Conn (Blue)

1	GPS ANT IN
2	SHIELD

Plug connection 10 4G_DIV_ANT (Bordeaux violet)

1	4G ANT IN
2	SHIELD

Plug connection 11 MAIN_Conn (Black)

A1	RR+
A2	FR+
A3	FL+
A4	RL+
A5	RR-
A6	FR-
A7	FL-
A8	RL-
A9	Body_CAN LOW
A10	\
A11	Body_CAN High
A12	UBAT-
A13	\
A14	AUTAN
A15	UBAT+
A16	elec. wakeup/diagnosis
B1	Microphone 1 In+
B2	\
B3	Microphone shield
B4	External AMP ON
B5	Test ACC
B6	BACK-CAM
B7	\
B8	\
B9	Microphone 1 GND
B10	CVBS Signal
B11	CVBS Gnd

B12	\
C1	\
C2	\
C3	\
C4	\
C5	\
C6	\
C7	\
C8	\
C9	\
C10	\
C11	\
C12	\

91 10 23 40: Install front display-/operator control panel (PCCM+)

Labor time: **190 TU**

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