

PCCM Plus 997/987

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NOTICE

Voltage peaks

- **Risk of damage to electrical load or to the control unit**
- ⇒ **Remove the ignition key and switch off load before disconnecting or removing load.**

Change
Overview:

Release	Date	Change
0	05/20/2024	▪ First publication
1	04/01/2025	▪ Update of WM links

Model Year: **As of 2005 up to 2008**

Vehicle Type: **911 (Type 997), Boxster (Type 987) and Cayman (Type 987)**

Restriction: 2005–2008

PCCM Plus Parts List: **997.642.591.00** ⇒ NAVIGATION SYSTEM, USA/CAN (PCCM Plus)

Notice:

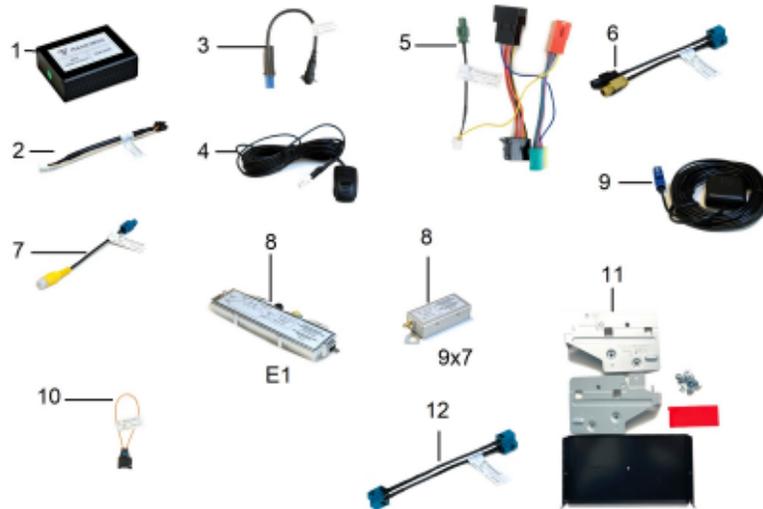
The corresponding map material for the PCCM Plus, which is on a separate micro SDHC card, is not included in the scope of delivery.

It has to be ordered separately according to the desired country version.

PCG.642.504.00 ⇒ Navigation data - USA/Canada (PCCM Plus)

The manuals are available here if needed:

<https://www.porsche.com/qr/classic-pccm-manuals>



Overview of parts

PCG.642.580.00	1x	Optical waveguide control unit MOST BOX⇒ <i>Overview of parts -1-</i>
PCG.642.580.00	1x	MOST cable (contents of Item 1)⇒ <i>Overview of parts -2-</i>
911.642.313.00	1x	Connecting line (Sirius XM®), USA/Canada only ⇒ <i>Overview of parts -3-</i>
911.645.507.00	1x	Microphone⇒ <i>Overview of parts -4-</i>
PCG.642.573.00	1x	Adapter cable for amplifier connection, reversing camera⇒ <i>Overview of parts -5-</i>
PCG.642.574.00	1x	FAKRA/SINGLE connecting cable⇒ <i>Overview of parts -6-</i>
955.645.510.00	1x	Reversing camera adapter cable (E1)⇒ <i>Overview of parts -7-</i>
PCG.645.574.00	2 x	Antenna amplifier 9x7, (not for USA/Canada/Asia/Africa)⇒ <i>Overview of parts -8-</i>
911.645.505.00	1x	GPS antenna⇒ <i>Overview of parts -9-</i>
996.642.585.00	1x	Flat plug housing with optical waveguide bridge⇒ <i>Overview of parts -10-(only for M692)</i>
997.645.297.00	1x	1 Mounting parts set 997⇒ <i>Overview of parts -11-</i>
PCG.645.573.00	1x	Adapter antenna wire harness (Diversity)⇒ <i>Overview of parts -12-</i>

Other spare parts:

PCG.645.595.A	1x	⇒ Rotary knob, left
PCG.645.596.A	1x	⇒ Rotary knob, right

Notice: On 987 model vehicles with antenna amplifier 987.647.105.00 (**M441/M694**), the antenna wire harness set: PCG.642.587.A **must also be ordered for the EU/AUS/NZ navigation system (PCCM Plus)**!(see Step 3.B)

Compared with Porsche Communication Management (PCM) generation 2.1, Porsche Classic Communication Management Plus (PCCM Plus) includes the following:

- Apple CarPlay®
- GOOGLE® Android Auto
- DAB+ Dual Tuner
- Digital touchscreen display (7-inch)
- USB for Apple CarPlay/GOOGLE® Android Auto
- 1 x microSDHC card slot
- Bluetooth® hands-free system
- SiriusXM-Ready® (**USA/Canada only**)



PCCM Plus

Preliminary Work:

Important!

Before installing PCCM Plus, please check that the sound system is functioning correctly using the system tester.

If there is a fault, this must be corrected beforehand!

Ignition off, switch off PCM

Display and operator control panel (PCM) **removalCS No.: 91101900**

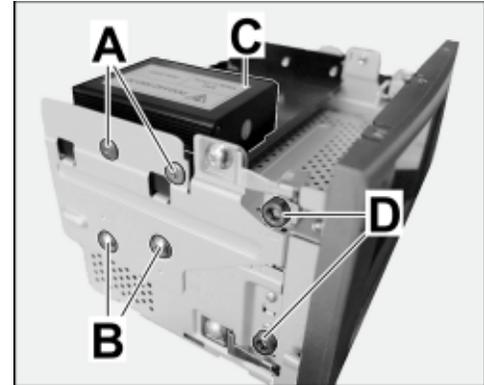
Notice: Pay attention to the PCM's security wheel bolts, which is located on the right-hand side of the unit and can be loosened with a 7 mm spanner.

Removing and installing the PCM display and control panel ⇒ *Workshop Manual '91101900 Removing and installing the PCM display and control panel'*

Installation:

1. Frame installing.

Fastening set ⇒ *Overview of parts -11-* must be pre-installed on the device and secured to the device with the supplied screws ⇒ *Installing the Mostbox -A-* and ⇒ *Installing the Mostbox -B-*.
 Sticking Mostbox ⇒ *Installing the Mostbox -C-* to frame ⇒ *Installing the Mostbox with adhesive pad* (scope of delivery)



Installing the Mostbox

2. Microphone/GPS antenna routing

Install microphone for hands-free system on the steering-column switch ⇒ *Microphone/GPS antenna routing*.
 Route and secure line for the microphone to the PCM/PCCM Plus storage compartment.
 Notice: **The microphone installed in the vehicle cannot be used.**



Microphone/GPS antenna routing

3. Installing antenna amplifier/GPS antenna.

Remove A-pillar trim at the left and right

911 (type 997): ⇒ *Workshop Manual '705719 Remove and install A-pillar trim panel'*

Boxster (Type 987) and Cayman (Type 987): ⇒ *Workshop Manual '705719 Remove and install A-pillar trim panel'*

3.A for EU/AUS/NZ devices: Removing antenna amplifiers at the left and right and the installing new antenna amplifiers ⇒ *Overview of parts -8-*

911 (type 997): ⇒ *Workshop Manual '91841900 Remove and install antenna amplifier'*

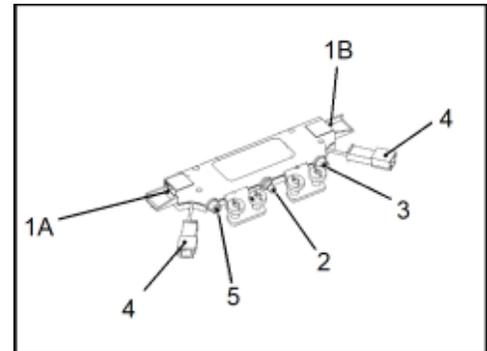
Boxster (Type 987) and Cayman (Type 987): ⇒ *Workshop Manual '91841900 Remove and install antenna amplifier'*

Remove right A-pillar

911 (type 997): ⇒ *Workshop Manual '705719 Remove and install A-pillar trim panel'*

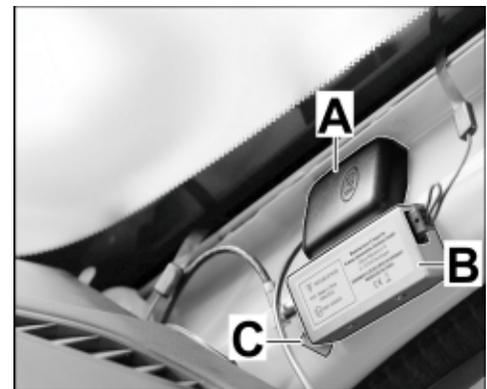
Boxster (Type 987) and Cayman (Type 987): ⇒ *Workshop Manual '705719 Remove and install A-pillar trim panel'*

Only disconnect connection ⇒ *Antenna amplifier -1A-* and ⇒ *Antenna amplifier -2-* connect to new antenna amplifier (scope of delivery).
Other plug contacts remain connected.



Antenna amplifier

Affix the backs of the two new antenna amplifiers ⇒ *GPS antenna/antenna amplifier -B-* to the A-pillar at the left/right using a double-sided adhesive pad (scope of delivery) ⇒ *Overview of parts -11-* and screw them on ⇒ *GPS antenna/antenna amplifier -C-*
Install GPS antenna ⇒ *GPS antenna/antenna amplifier -A-* in the A-pillar area on the right and route and secure the line to the PCM/PCCM Plus storage compartment.



GPS antenna/antenna amplifier

3.B (only for Porsche 987 EU/NZ/AUS devices):
Installation of antenna amplifier (scope of delivery) ⇒ *GPS antenna/antenna amplifier -B-* with antenna amplifier 987.647.105.00 (**M441/M694**) ⇒ *Antenna amplifier*

Disconnect AM/FM connection from antenna amplifier: 987.647.105.00 and connect to adapter cable: PCG.642.587.A.

Connect adapter cable PCG.642.587.A to new antenna amplifier ⇒ *Overview of parts -8-*.

Install the second adapter cable from the new amplifier to the PCM/PCCM Plus storage compartment and connect it to PCCM Plus.

Only 1x antenna amplifier from the scope of delivery is required!

4.Plug/bridge adapter antenna wire harness into the vehicle-side wire harness of the control unit for antenna.

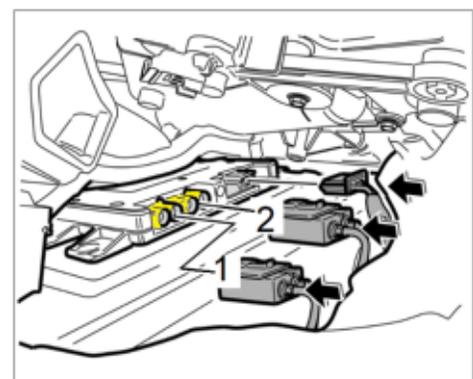
Insert (only for vehicles with M440 (Antenna Diversity) ⇒ *Overview of parts -12-* on the antenna control unit (slots 1 and 2 ⇒ *Antenna control unit*)

911 (type 997): ⇒ *Workshop Manual '91861900 Remove and install antenna control unit'*

Boxster (Type 987) and Cayman (Type 987): ⇒ *Workshop Manual '91861900 Remove and install antenna control unit'*
Bridge antenna control unit. Disconnect cables 1 and 2 from the antenna control unit.

Connect cable 1 and 2 using PCG.645.573.00 adapter line ⇒ *Overview of parts -12-*.

Tie back disconnected cables.



Antenna control unit

5. Install **flat plug with optical waveguide bridge** ⇒ *Overview of parts -10-* supplied 996.642.585.00 MOST bridge, if necessary, on the CD changer (M692).

6. PCCM Plus connection.

Connecting plug contacts to PCCM Plus ⇒ *Plug contacts*

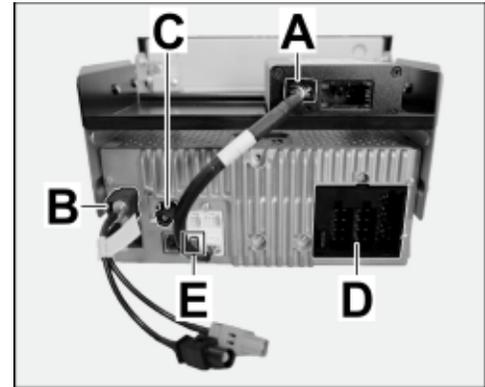
A: MOST cable PCG.642.580.00

B: Connecting cable FAKRA/SINGLE PCG.642.574.00

C: GPS antenna 911.645.505.00

D: Power supply: **Use adapter cable for amplifier connection and reversing camera PCG.642.573.00!** ⇒ *Overview of parts -5-*

E: Microphone 911.645.507.00



Plug contacts

7. (For USA/Canada only)

Connecting adapter cable for amplifier connection, reversing camera ⇒ *Adapter cable/connecting line for Sirius XM -1-* to connecting line (Sirius XM®) ⇒ *Adapter cable/connecting line for Sirius XM -2-*

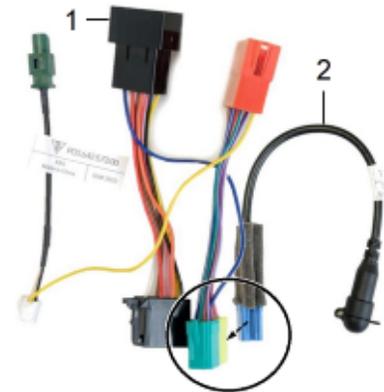
To do this, remove the blue connector housing on the adapter cable and connect it to the blue connector housing of the connecting line

Insert device carefully

Lock the device at the side ⇒ *Installing the Mostbox -D-* (turn screws anti-clockwise)

Assembly similar to: Display and operator control panel (PCM) **installationCS No.: 91101900**

Removing and installing the PCM display and control panel ⇒ *Workshop Manual '91101900 Removing and installing the PCM display and control panel'*



Adapter cable/connecting line for Sirius XM

Rework: Changing the required installed MOST components list: in the gateway control unit (deactivate navigation installed + telephone)

The following campaigns must be carried out:

1. Car> - Set -> System -> Language: Check language

2. Car -> Set -> System -> Configure PCCM Plus -> Teach PCCM Plus automatically and select fields depending on vehicle configuration

3. Configure Car -> Set -> System -> PCCM Plus: Press and hold for approx. 10 seconds using Touch and perform self-diagnosis using Start. Plug connections on PCCM Plus are checked.

4. Tuner -> Options -> Frequency band: Check country setting

Further Info on converting from CDR to PCM

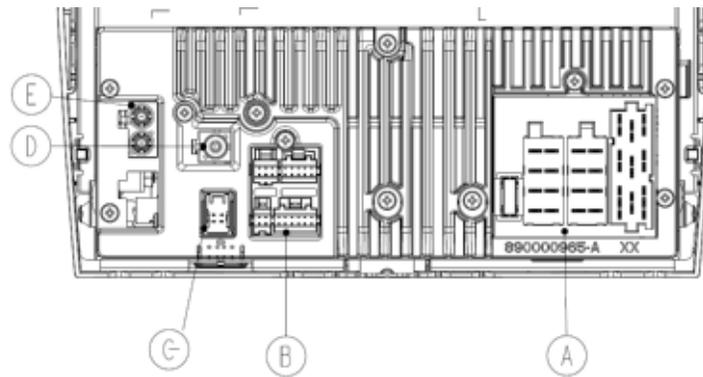
Documents: **Boxster (Type 987) and Cayman (Type 987):**

TEQ, 9112 Porsche Communication Management PCM2.1 (I-no. P16)

⇒ *Installation and Conversion Instructions '911200 Porsche Communication Management PCM2.1 (I-no. P16)'*

Tool: PIWIS Tester 4 **P90999 - P90999 - PIWIS Tester 4**
Open-ended wrench, a/f 7

Connection
Diagram/Pin
Assignment:



Plug connections

Plug connection A

PIN	Designation
A 1	REVERSE / ASK AMP
A 2	BATT
A 3	ILL
A 4	GND
A 5	GAL
A 6	NC
A 7	ANT-C
A 8	ACC-IN
B 1	RR-
B 2	FR-
B 3	FL-
B 4	RL-
B 5	RR+
B 6	FR+
B 7	FL+

B 8	RL+
C 1	CAN_L_LINE_RR
C 2	LINE_OUT_FR
C 3	GND
C 4	LINE_OUT_SW
C 5	SXM_TX_MCU_RX
C 6	SXM_RESET_OUT
C 7	SXM_AUDIO_LIN
C 8	GND
C 9	AMP_C_+12 V (max. 200 MA)
C 10	NC
C 11	NC
C 12	SXM_RX_MCU_TX
C 13	GND
C 14	CAN_H_LINE_RL
C 15	LINE_OUT_FL
C 16	NC
C 17	NC
C 18	SXM_AUDIO_GND
C 19	PWR_SXM_+12 V (max. 500 MA)
C 20	SXM_AUDIO_RIN

Plug connection B

1	MIC+
2	MIC-
3	MIC DET
4	GND
5	NC
6	REVERSE
7	PARKING
8	CAMERA - 12 V (max. 200 MA)
9	CAM-GND
10	CAM VIDEO IN

11	NC
12	NC
13	NC
14	NC
15	MOST-R
16	GND
17	MOST-L
18	GND
19	MOST-TX
20	MOST-RX
21	GND
22	MOST 12 V (max. 500 MA)
23	NC
24	NC
25	NC
26	NC
27	NC
28	NC
29	NC
30	NC
31	NC
32	NC

Plug connection C

1	USB 5 V (max. 2.1 A)
2	GND
3	USB +
4	USB-

Plug connection D

1	RF_IN_5 V (max. 30 MA)
2	GND

Plug connection E

1	ANT-1
2	GND
3	ANT-2
4	GND

Labor Time:

91102341: Installing Porsche Classic Communication Management Plus

Labor time: **180 TU**

In the event of technical problems, complete the warranty form and attach it to the PRMS ticket
See PET "Infoline" warranty form

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