Steering Wheel Adapter
Installation instruction
17/Nov/2017 V1.9

STMV1
Without heating support

STMV1-H
With heating support

Adapter works mechanism diagram
Adapter works mechanism

Adapter converts LIN BUS protocol and buttons backlight signal, heating function to fit original steering wheel control module.

Connection diagram (STMV1)

Connection diagram of STMV1 adapter without heating support.

- Connect to electric unit of new steering wheel.
- Connect the original 4PINs plug to new steering wheel electric unit.
- #12 PIN Red wire Heating support.
- #11 PIN Black wire Key light support.
Remove airbag
Remove steering wheel

Tools:
1# T25 Torx
2# Slotted screwdriver
3# M12 XZN/Triple Square bits socket
4#Torque Wrench

(1) Remove airbag
1.1 Disconnect battery.
1.2 Insert T25 torx to #2 hole until you can feel the spring, and then gently pull the airbag unit outward.

(2) Remove connector
2.1 Remove airbag connector, orange plastic tabs(1) need to be popped up first.

(3) Remove airbag
3.1 Remove airbag form steering wheel

(4) Remove connector
4.1 Remove clock spring connector(2) and heating connector(1)

(5) Unscrew the bolts
5.1 Unscrew the (1)bolts use M12 XZN/Triple Square bits socket with torque wrench
Install adapter

Tools:
1# 1.5mm Slotted screwdriver
2# T20 Torx
3# M12 XZN

(1) Remove mounting plate
1.1 Unscrew airbag mounting plate 3 fixed bolts by T20 torx.

(2) Remove mounting plate
2.1 Remove airbag mounting plate.

(3) Connector pinout
3.1 Clock spring connector pinout.

(4) Remove connector lock

(5) Reassemble the plug
5.1 Insert adapter harness PINs to position #11&12 of plug housing.
(6) Reassemble the plug
6.1 Insert wire harness PIN to #11&12

(7) Wire harness path
7.1 wire harness route path, fixed it.

(8) Adapter connect instruction
8.1 Remove original #3 plug housing, connect it to #2 socket source from adapter.
8.2 Connect #3 plug to original steering wheel electronic box.
8.3 Connect #1
(9) Adapter fixed position
9.1 Insert adapter to top space of electronic box and fixed it.

(10) Adapter fixed
10.1 Cover adapter and connector with tape.

(11) Fixed steering wheel and airbag
11.1 Reassemble airbag holding plate, remember pull 2 shift paddles plug out of airbag holding plate, reconnect all plugs after fixed plate.
**Install adapter with heating support (STMV1-H)**

STMV1-H support steering wheel heating, this module have an extra socket to connect heating temperature and switch plug.

Heating switch of new steering wheel need remove and replace resistor (Step.15).

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(11) Remove back cover
11.1 Remove new wheel back cover

(12) Remove heat switch cover
12.1 Remove heat switch cover
(13) Remove heat switch
13.1 Remove heat switch cover

(14) Remove heat switch
12.1 Remove heat switch cover

(15) Modify heat switch resistor (**important**)
15.1 Remove 8.22K resistance, keep it empty
15.2 Replace 22.2K resistance with 390 ohm, new 390 ohm resistance supply with adapter package.

After
Soldering temperature 330-350°C°
(16) Adapter heat support socket connection guide

Remove original heating temperature sensor and switch plug from electronic box in steering wheel, connect this plug to STMV1-H adapter heating support socket.

Adapter insert setting the top of electronics box in Wheel like this photo, Insert top side of adapter into gap first.

(17) Reassemble heat switch cover

17.1 Reassemble heat switch cover

(18) Reassemble back cover

18.1 Reassemble new wheel back cover
(19) Cover adapter with tape
19.1 Cover adapter and connector with tape, it’s supplied with adapter kits.

How to remove new airbag
Insert T25 torx to one side hole until you can feel the spring, and then gently pull the torx side airbag unit outward, other side same process.
FAQ

(a) How to upgrade steering wheel with heating?
Steering column control module need active heating function, install heating supported spring clock, steering wheel need support heating also. Heating support adapter kits parts number is STMV1-H

(b) Upgrade Sport style steering wheel to multifunction is possible?
Original with sport style steering wheel upgrade multifunction steering wheel, need coding the vehicle steering control module from sport style wheel to multifunction, input “Multifunction enable code” and coding the car by PIWIS. Following this coding guide https://gpsadapter.us/blogs/installation-guide/upgrade-sport-style-steering-wheel-to-multifunction-coding-guide

(c) 997.1 Upgrade to new steering wheel
Adapter fit Carrera 997.1 need upgrade the steering column module to 997.2 (997.613.289.01 or 997.613.289.00) .997.1 upgrade steering control module reference https://gpsadapter.us/blogs/installation-guide/997-1-upgrade-to-997-2-steering-wheel-control-module-coding-guide

(d) Steering wheel airbag upgrade safety
New and original steering wheel airbag connect to control module through clock spring connector PIN#3 #4 #5 #6, it's independent system, we haven't made any changes to it. The most important thing is buy genuine airbag of Porsche.

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