

GPS Adapter
Steering wheel



<https://gpsadapter.us>

Installation instruction

11/Feb/2022 V2.8



Before

After

STMV1 (Page4-8)

Without heating support



STMV1-H (Page4-12)

With heating support
Include modified heat switch



STMV1-971 (Page4-12)

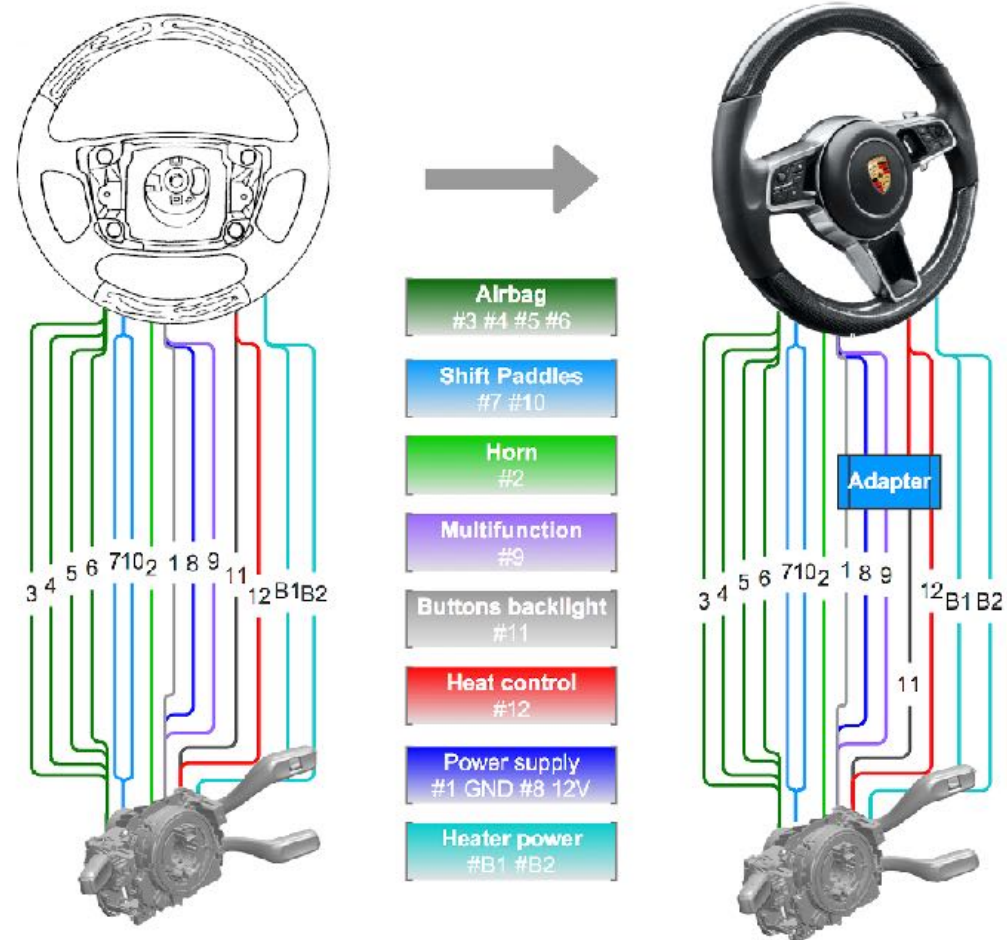
Support 971 style steering wheel
Include 95B.971.388.B wire harness



Adapter-X (Page4-14)

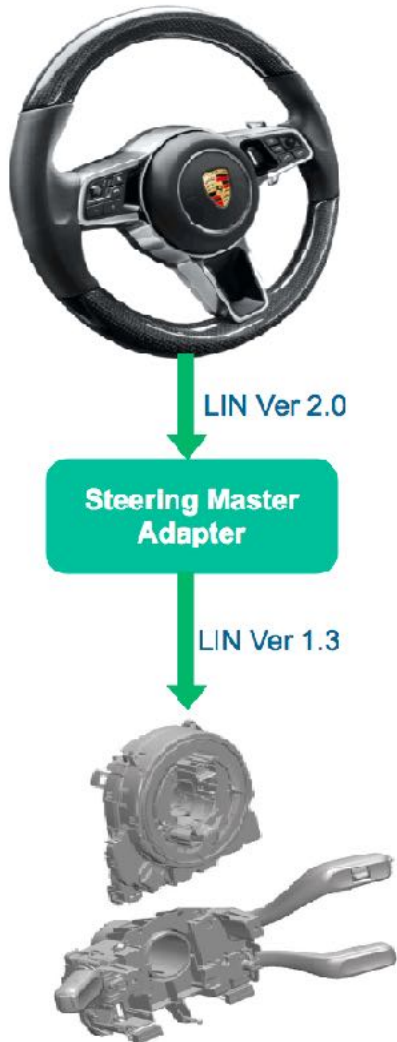
Multifunction, Heating, Mode Switch
all works together with Adapter-X

Adapter in steering wheel works mechanism



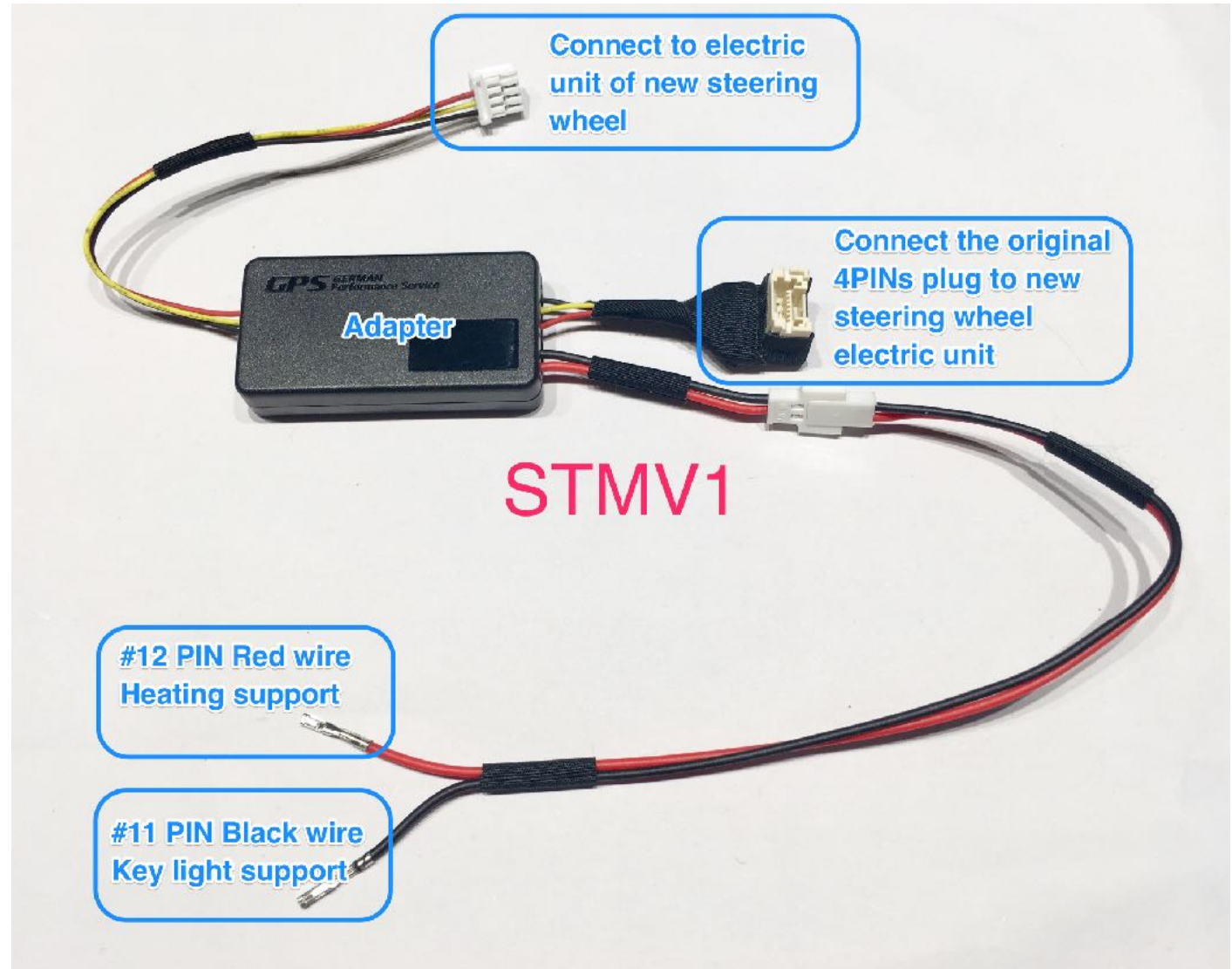
Adapter in steering wheel works mechanism

Adapter convert 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



Remove airbag Remove steering wheel

Tools:

1# T25 Torx

2# Slotted screwdriver

3# M12 XZN/Triple Square bits socket

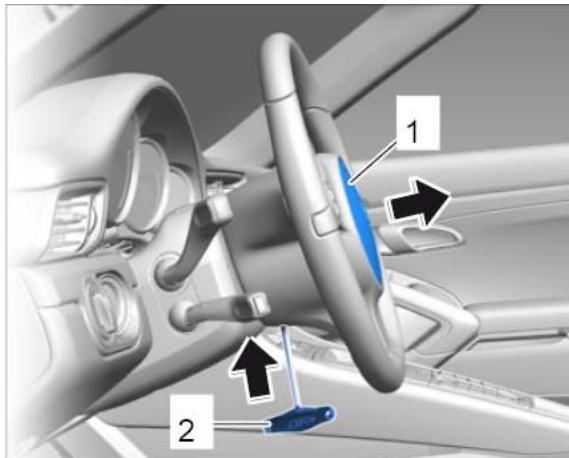
4#Torque Wrench



(1) Remove airbag

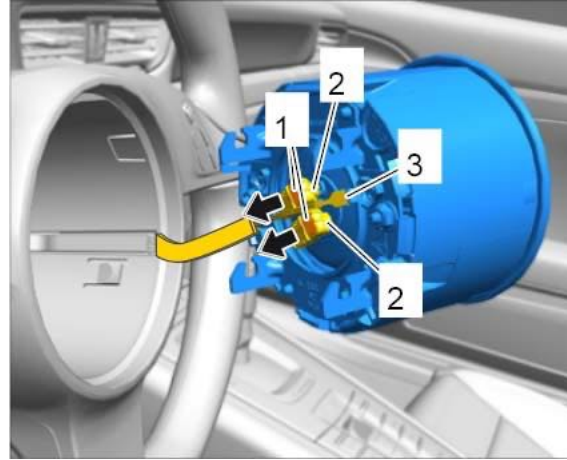
1.1 Disconnect battery.

1.2 Insert T25 torx to #2 hole until you can feel the spring, and then gently pull the airbag unit outward.



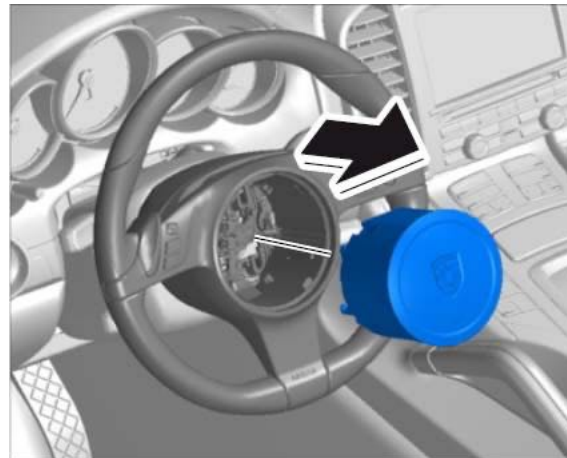
(2) Remove connector

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.



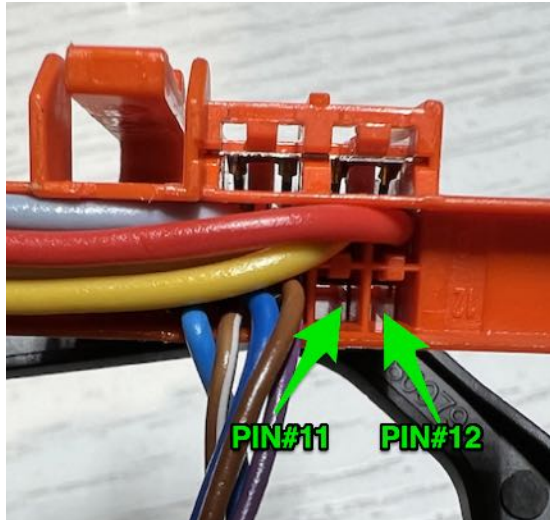
(2) Remove mounting plate

2.1 Remove airbag mounting plate.

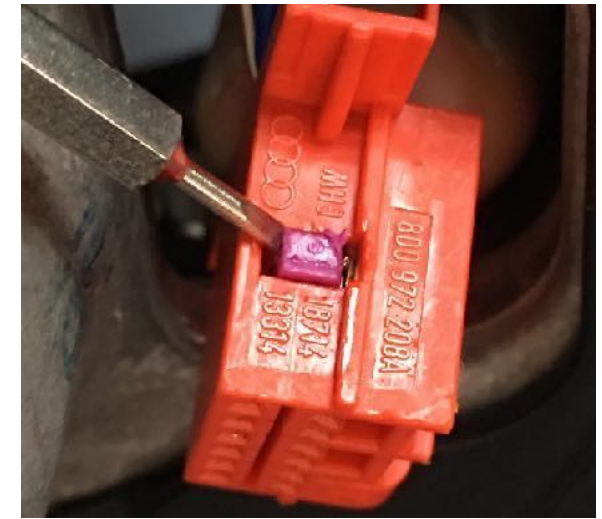


(3) Connector pinout

3.1 Clock spring connector pinout.

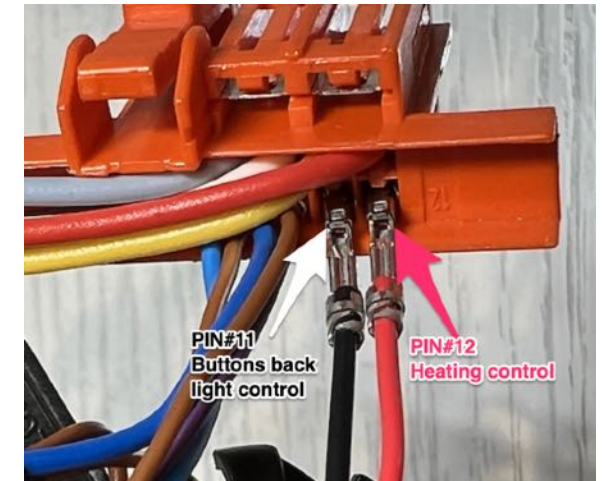


(4) Remove connector lock



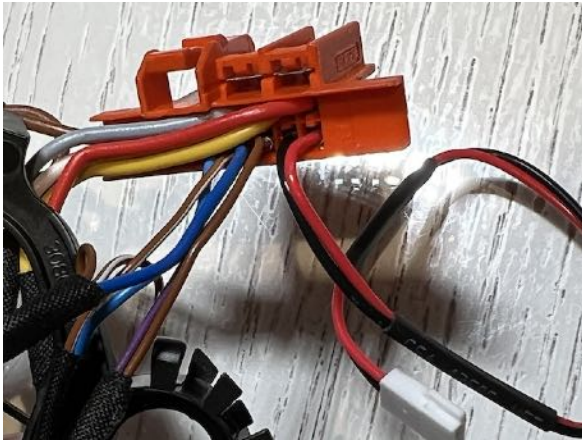
(5) Reassemble the plug

5.1 Insert black&white wire's PINs to position #11&12 of plug housing.



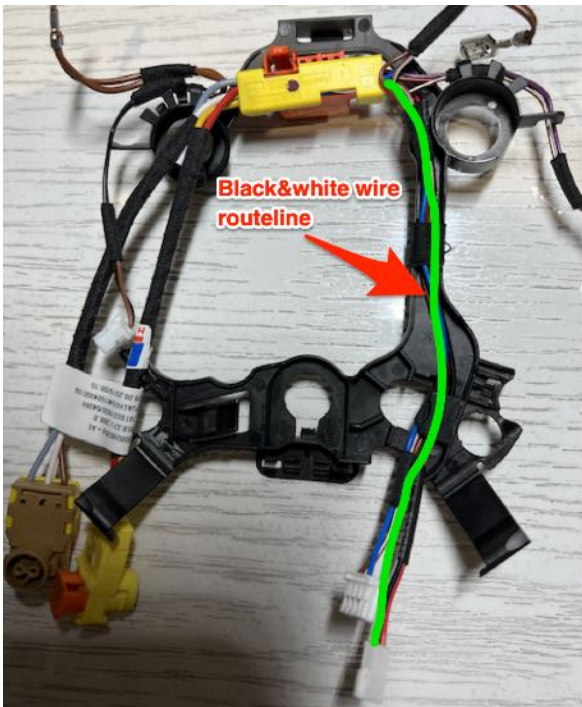
(6) Reassemble the plug

6.1 Insert wire harness PIN to #11&12



(7) Routing black&white wire

7.1 Routing black&white wire.

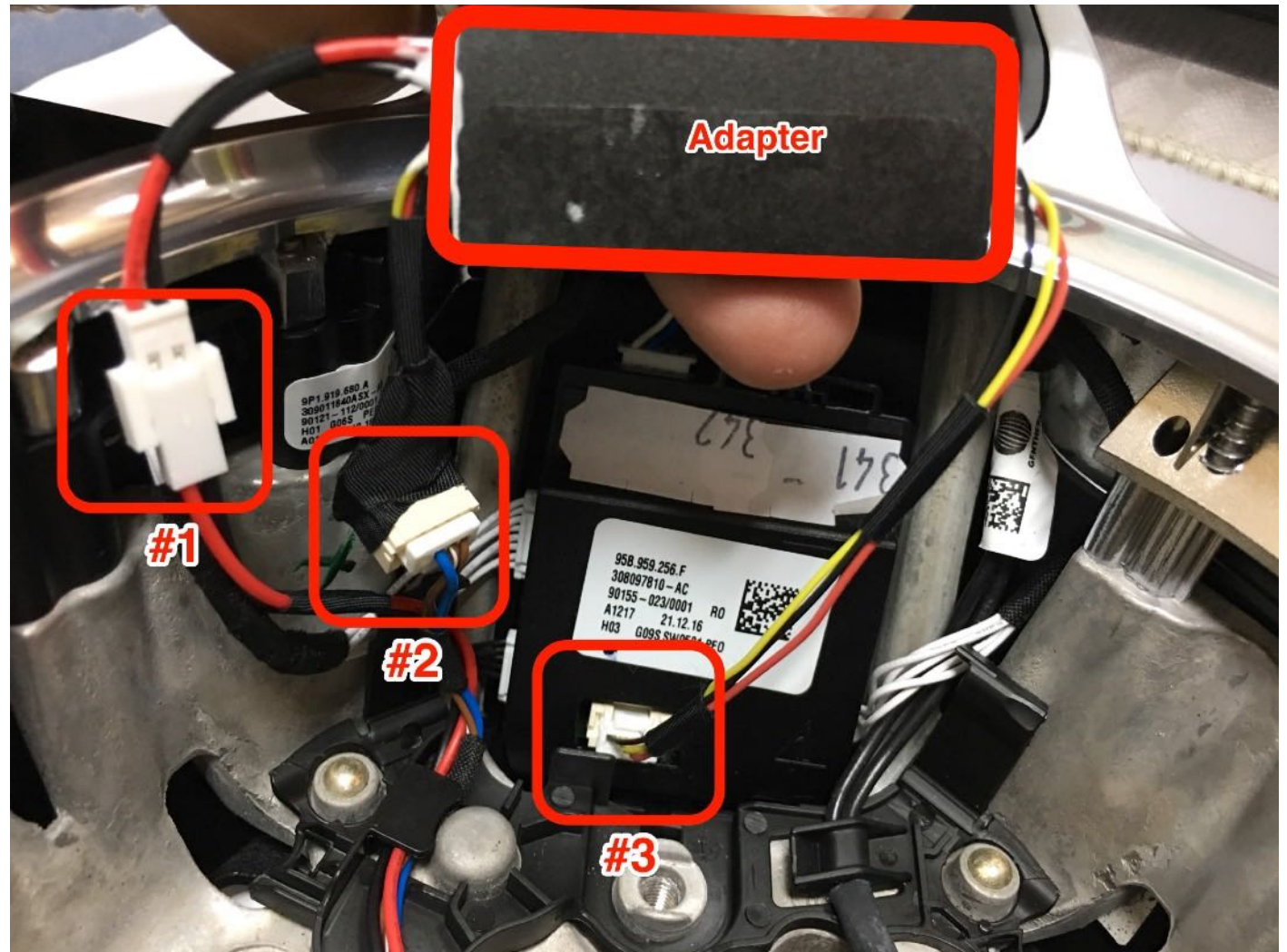


(8) Adapter connect instruction

8.1 Remove original #3 connector, connect it to #2 socket source from adapter.

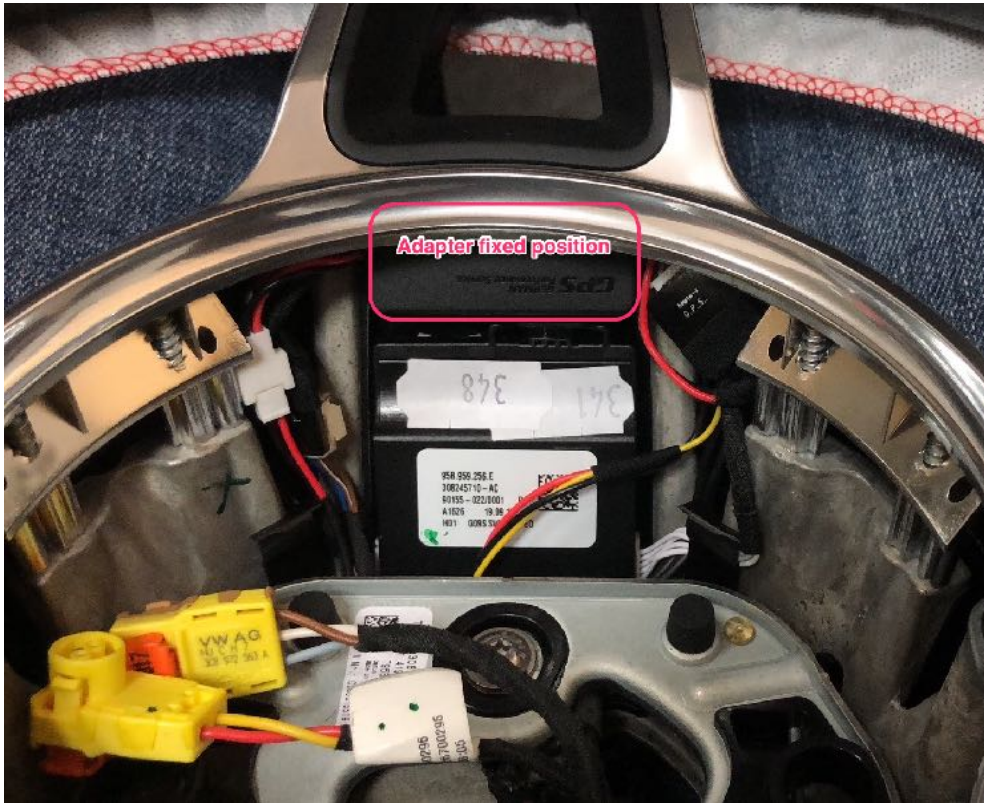
8.2 Connect #3 plug from adapter to original steering wheel electronic box.

8.3 Connect #1



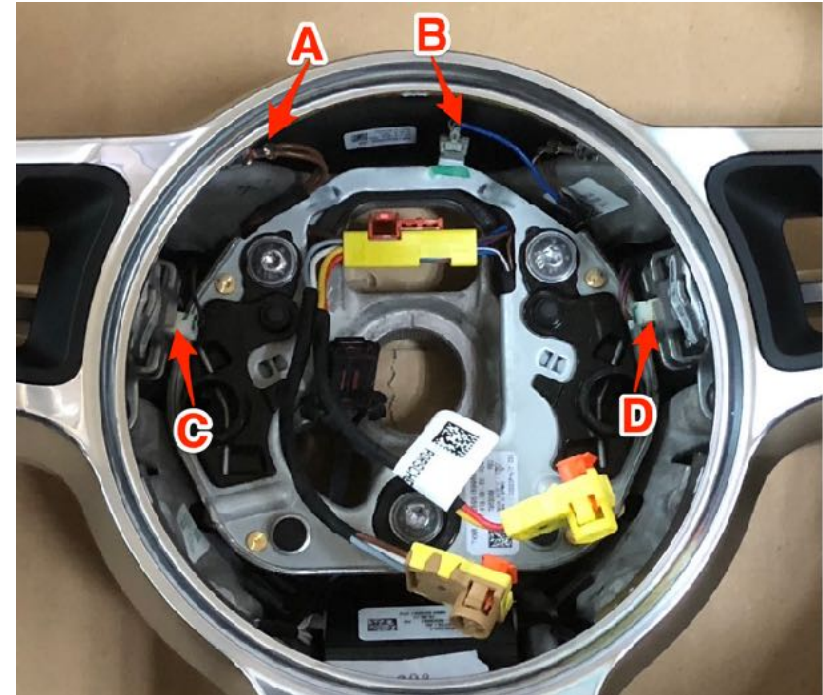
(9) Adapter fixed position

9.1 Insert adapter to the gap of electronic box top side, fixed it.



(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 4 connectors(A B C D) after fixed backplate.



(12) Adapter fixed

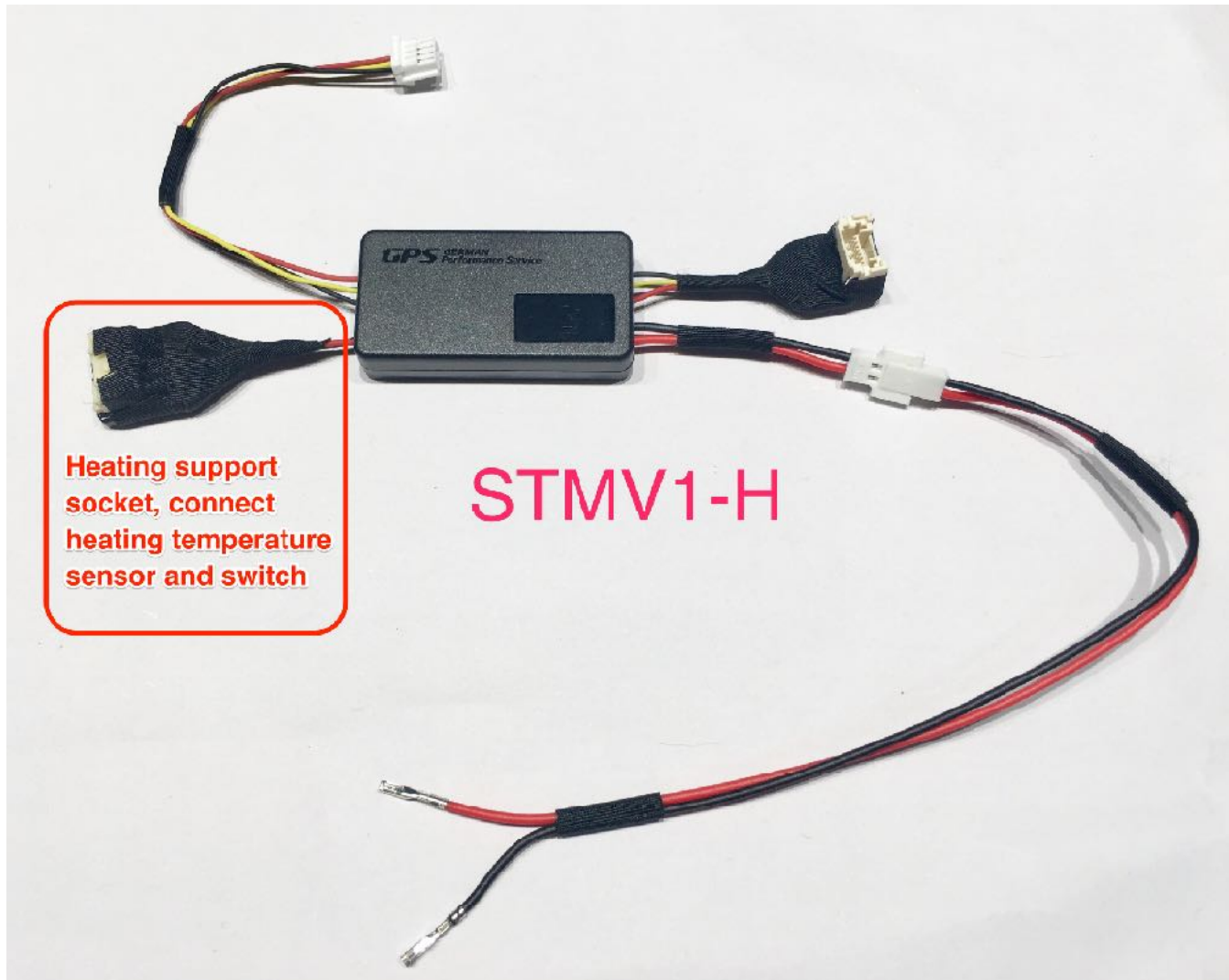
12.1 Cover adapter and connector with tape.



Install adapter with heating support(STMV1-H)

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

Heat switch in new steering wheel need replaced to new one(Steps 11-15),new heat switch ship with heating support adapter kits.



(13)Remove back cover

13.1 Remove new wheel back cover



(14)Remove heat switch cover

14.1 Remove heat switch cover



(15) Remove heat switch

15.1 Remove heat switch cover



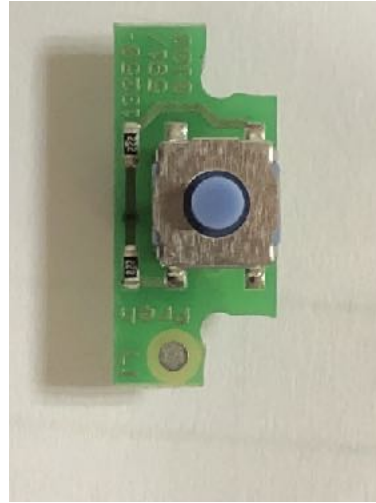
(16) Remove heat switch

16.1 Remove heat switch from cover

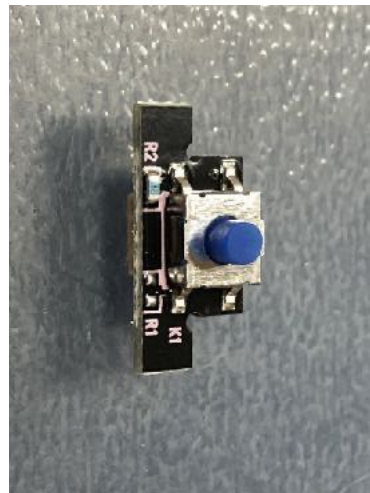
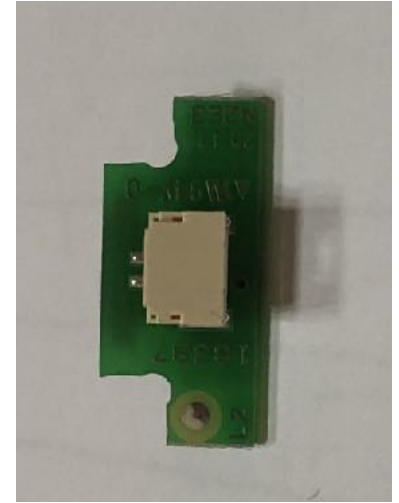


(17) Replace heat control switch

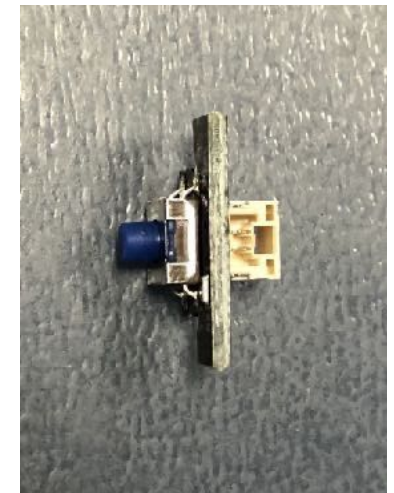
17.1 Replace to new heat control switch shipped with adapter kits.



Old heat switch



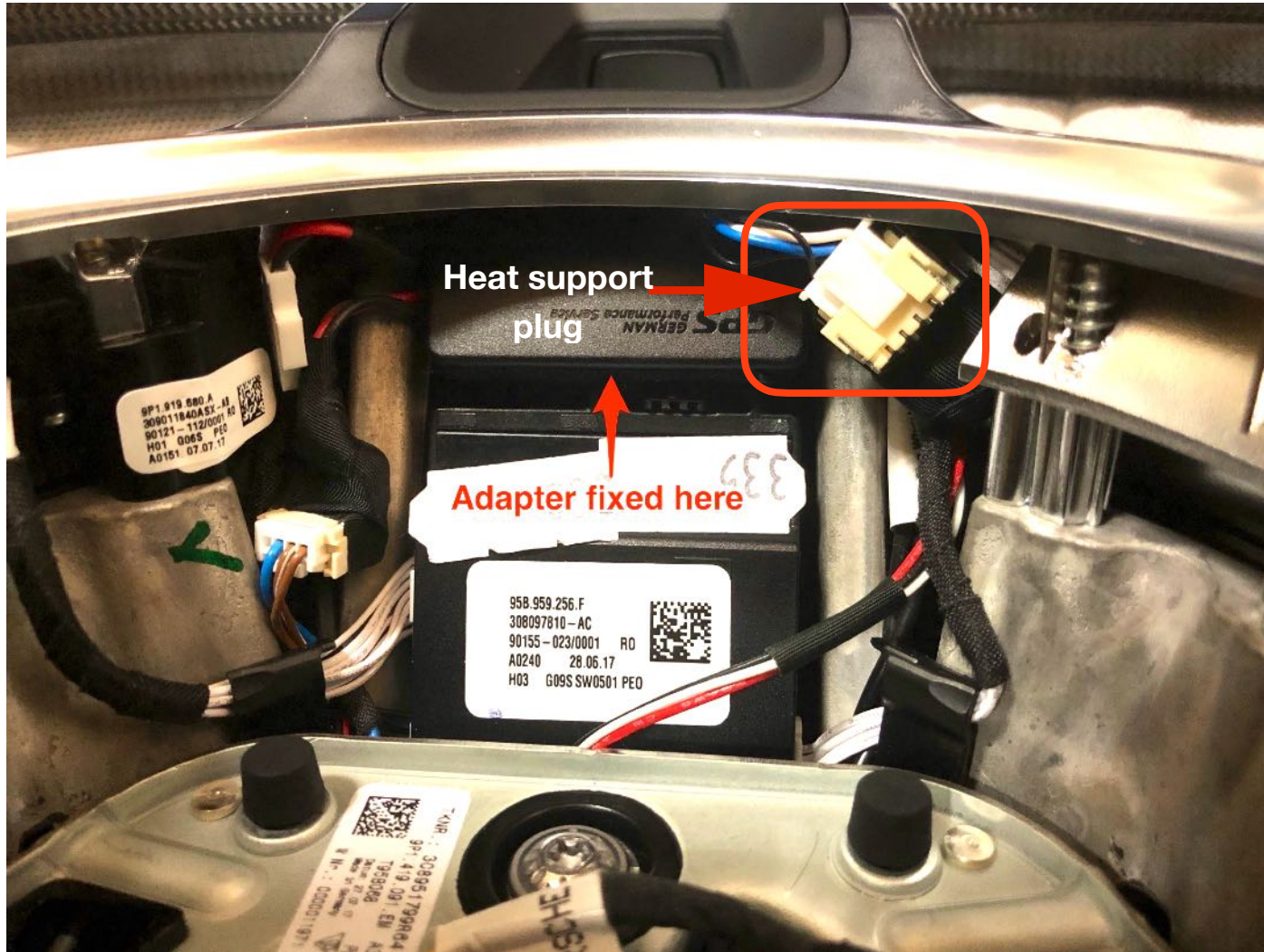
New heat switch



(18) Adapter heat support socket connection guide

Remove original heating support plug(4 PINs) form top side electronic box in steering wheel, connect this plug to 4 PINs socket of heating support adapter.

Adapter insert sitting the top of electronics box in steering wheel like this photo, Insert top side of adapter into gap first.



(19) Reassemble heat switch cover

17.1 Reassemble heat switch cover



(20) Reassemble back cover

18.1 Reassemble new wheel back cover



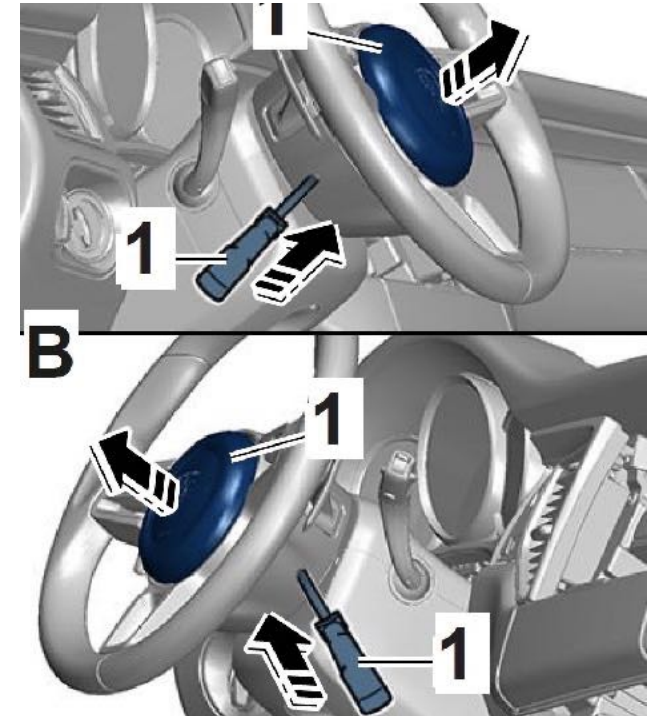
(21)Cover adapter with tape

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.



Adapter-X

- Multifunction and heating support
- MODE SWITCH support

Carrera 991.1(2012-2016)

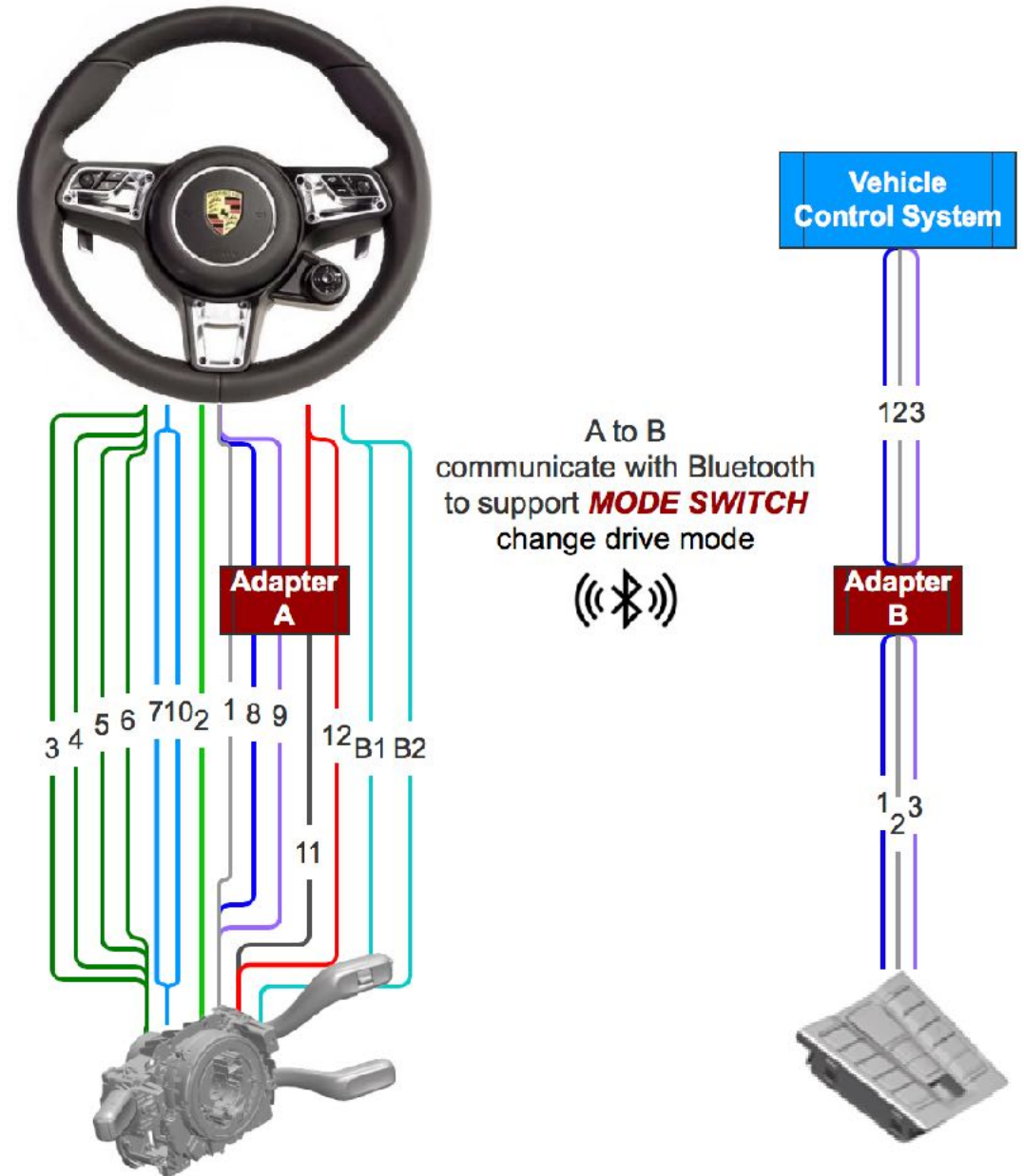
Cayman 981C(2014-2016)

Boxster 981(2012-2016)

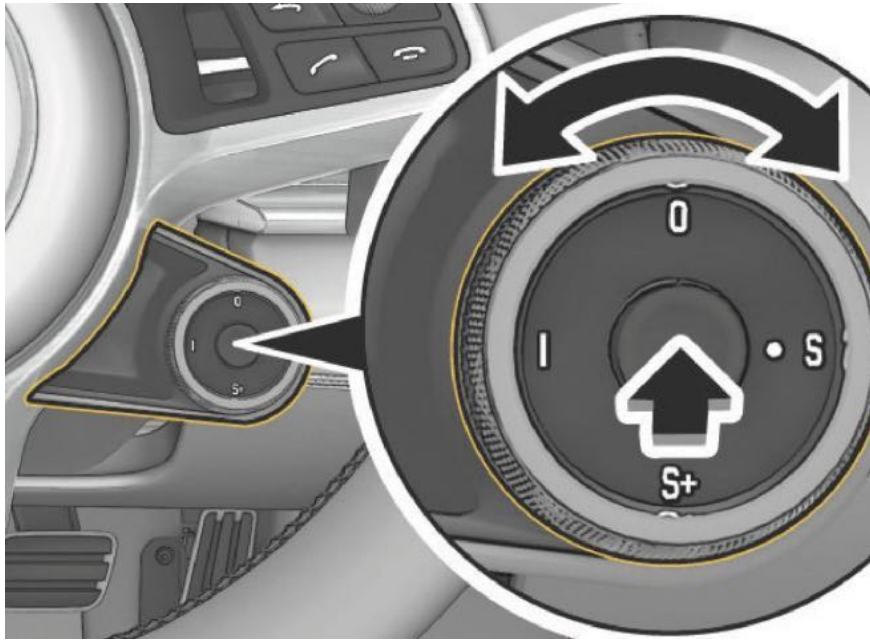
Cayenne 92A(2011-2015)



Adapter-X works mechanism diagram




Adapter-X Mode Switch operation



Adapter-X adapters, support turn the Mode Switch to change drive mode(O S S+ I).

Press center response button activate 20 seconds **Sport Plus** mode,S+ LED will keep flashing. Within 20 seconds press again to cancel.

 If center console module buttons or mode switch no response, please disconnected Adapter-B to vehicle control system side make Adapter-B power off, then connect back make adapter-b restart can resolve this problem.

Mode	991.1/981	991.1 GT3	958.1
O	Normal	Normal	Suspension Comfort
S	Sport ON	Suspension Sport ON	Suspension Sport
S+	Sport Plus ON	S to S+: Suspension Sport + PDK Sport i to S+:PSE + PDK Sport	Sport + Suspension Sport
i	PSE ON	PSE ON	Suspension Normal
Response Button	20 Seconds Sport Plus	20 Seconds PDK Sport	20 Seconds Sport

Install Adapter-X center console module 991.1/981

Remove buttons module from center console, series connect Adapter-B to button module and fixed.



Install Adapter-X center console module for 958.1 Cayenne

Remove control buttons module from center console, series connect Adapter-B to buttons module and fixed.

