



Installation instructions

Akrapović System:

Optional Wireless Kit

for the

Porsche Cayenne Turbo (type 958)

Porsche Cayenne Turbo S (type 958)



Installation instructions

Akrapovič System:

Optional Wireless Kit

for the

Porsche Cayenne Turbo (type 958)

Porsche Cayenne Turbo S (type 958)

Congratulations on purchasing an Akrapovič exhaust system. Please read the entire installation manual prior to undertaking any activities related to installation of your new Akrapovič exhaust system. In case you do not fully understand the manual or any of its parts, please contact your authorized dealer!

This product should be installed by someone with sufficient knowledge of exhaust systems and their installation, and appropriate hand or power tools. If you are not qualified for this work, please utilize a certified mechanic for installation. By installing Your Akrapovič exhaust system, you indicate that you have read the installation manual in its entirety and you agree with the terms stated herein.

It is your responsibility to follow all installation instruction guidelines supplied with the Akrapovič exhaust system and undertake all necessary safety precautions. Akrapovič d.d. assumes no responsibility for damages occurring from misuse, abuse, improper installation, improper operation, lack of responsible care, or all previously stated reasons resulting from incompatibility with other manufacturer's products and/or systems.

IMPORTANT INFORMATION

Exclusion of Certain Liability

1. The manufacturer, importer or dealer shall not be liable for any incidental damage including personal injury or any other damages caused by improper installation or operation of the Akrapovič exhaust system. When installing the Akrapovič exhaust system be careful that the exhaust system does not touch other parts sensitive to high temperature.
2. Akrapovič makes no representation or warranties with regard to damage caused by the improper installation, use and maintenance of the Akrapovič exhaust system. The warranty is limited to defects recognized by our technical department and due to normal use, and excludes items subject to normal wear (gaskets and damping wool). The guarantee is void in case of accident, modification, improper or competition use.
3. Do not attempt to install the Akrapovič exhaust system on a vehicle model for which it was not made or tested by Akrapovič.
4. When the exhaust system gets very hot during operation, be careful not to burn yourself on the exhaust system or parts which are in direct contact with it, even when the engine is not running. Also protect other people, especially children, from the injuries mentioned above.

1. In some cases Akrapovič exhaust system kits contain chemical products (ceramic anti-seizing grease; bolt sealant). Handle with care, do not inhale or swallow. Avoid excessive contact with skin, eyes or mucous membranes. Keep out of reach of children.
2. Technical specifications of Akrapovič exhaust systems and related products are subject to change without notice.
3. Before removing the original exhaust system from your vehicle, please compare the parts you received with the list of materials provided in the installation manual in order to assure that you have all the parts necessary for the installation of your new Akrapovič exhaust system.
4. Although this manual consists of instructions for installation in written form, as well as photographs and pictures representing individual steps of the installation, please note that the photographs and pictures are symbolic and are intended for representation of general overview only. The photographs and pictures contained herein should serve as a guideline only and actual installation of the exhaust system may not correspond with the photographs and pictures entirely.
5. The process of uninstalling the original exhaust system may vary depending on the existing exhaust system. Please follow the original exhaust system manufacturer's instructions for uninstalling the original exhaust system.

Trademarks

The Akrapovič Exhaust System Technology logo is a registered trademark of Akrapovič d.d.

Akrapovič website

Information about Akrapovič exhaust systems and related products is available on the Akrapovič website at:

<http://www.akrapovic.com/>

Copyright

No part of the Akrapovič exhaust system or its documentation may be reproduced or distributed in any form or by any means without the prior written authorization of the Akrapovič company.

© Akrapovič, d.d. All rights reserved.

Symbols

The following symbols are used throughout these installation instructions:



TOOLS REQUIRED



TIGHTENING TORQUE



INSTALLATION TIP



CAUTION OR WARNING



USE BOLT SEALANT; Apply 3 to 4 small drops of bolt sealant onto the cleaned and degreased threads before tightening the bolts. **WARNING! Avoid contact with skin, eyes and mucous membranes. Do not inhale fumes. Keep out of the reach of children.**



USE ANTI-SEIZE LEAD-FREE COPPER PASTE (black tube); Provides trouble-free and long-lasting protection against seizing, corrosion and rusting of bolts, threaded ends, nuts, joints, etc. Also protects against vibration, wear and impact. **WARNING! Avoid eye contact. Avoid excessive skin contact. Keep out of reach of children.**



USE ANTI-SEIZING GREASE (white tube); Prevents seizing, corrosion and excessive wear between the titanium components of your exhaust system. **WARNING! Avoid eye contact. Avoid excessive skin contact. Keep out of reach of children.**



T-handle swivelling 10 mm wrench
T-handle swivelling 13 mm wrench
Bi-hex 15 mm socket
Pry bar
Torx 25
Torx 27
Torx 30
Cutting nippers
Heat gun



BEFORE INSTALLING, CHECK SCHEMATIC OF THE WIRELESS KIT! THE LATEST VERSION OF THE PARTS LIST AND SCHEMATIC DRAWINGS OF THE PRODUCTS ARE AVAILABLE ON OUR WEB PAGE.



IF ANY ITEMS IN THE AKRAPOVIČ WIRELESS KIT PACKAGE ARE MISSING, PLEASE CONTACT YOUR AUTHORIZED DEALER. KEEP THE SCHEMATIC FOR FUTURE REFERENCE.



THESE INSTALLATION INSTRUCTIONS MUST BE READ CAREFULLY IN ORDER TO ENSURE PROPER INSTALLATION AND OPERATION OF THE AKRAPOVIČ WIRELESS KIT.



THE EXHAUST SYSTEM CAN BE EXTREMELY HOT. ALLOW THE EXHAUST AND ENGINE TO COOL DOWN BEFORE BEGINNING INSTALLATION.



WE ADVISE YOU TO LEAVE INSTALLATION TO A QUALIFIED SERVICEMAN. IMPROPER INSTALLATION MAY RESULT IN A SHORTER LIFETIME OF THE WIRELESS KIT AND/OR DAMAGE TO THE VEHICLE.



THIS MANUAL IS SPECIFIC TO THE PORSCHE CAYENNE TURBO. THERE MAY BE SOME DIFFERENCES IN INSTALLATION PROCEDURES FOR OTHER MODELS.



AT EACH ENGINE START, THE EXUP VALVE MAY VIBRATE FOR A FEW SECONDS UNTIL THE VACUUM SYSTEM REACHES OPERATING PRESSURE.

INSTALLATION OF THE AKRAPOVIČ OPTIONAL WIRELESS KIT:

1. Put the vehicle onto a car lift.

! **WARNING: ensure that the car is lifted safely and properly in order to avoid the risk of vehicle damage, injury, or even death!**

2. Remove the Akrapovič muffler off the vehicle.

↗ **INSTALLATION TIP: check the Akrapovič Slip-On installation instructions for correct muffler disassembly procedure.**

! **WARNING: make sure, not to injure yourself or damage any part of the vehicle during this procedure!**

3. Unscrew the marked nuts and carefully remove the heat shield off the vehicle (**Figure 1**).
- ! WARNING:** make sure not to injure yourself, or damage any part of the vehicle during this procedure!

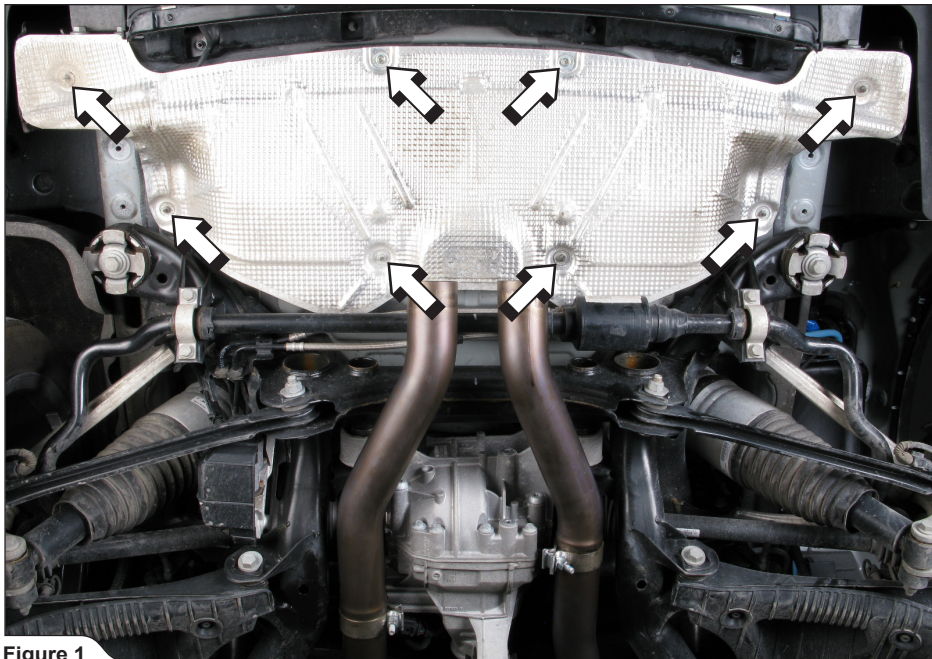


Figure 1

4. Remove the floor carpet, unscrew the four socket mounts' bolts and remove the right trunk floor pad (Figure 2).

! WARNING: make sure not to injure yourself, or damage any part of the vehicle during this procedure!



Figure 2

5. Carefully undo the right trunk column covers and right trunk trim panel (**Figure 3, 4**).

! **WARNING:** make sure not to injure yourself, or damage any part of the vehicle during this procedure!



Figure 3

! WARNING: make sure not to injure yourself, or damage any part of the vehicle during this procedure!



Figure 4

6. Remove right side wheels. Unscrew wheel arch nuts and bolts and remove the rear and front right side wheel arch panels off the vehicle (**Figure 5, 6**).

! **WARNING:** make sure not to injure yourself, or damage any part of the vehicle during this procedure!



Figure 5

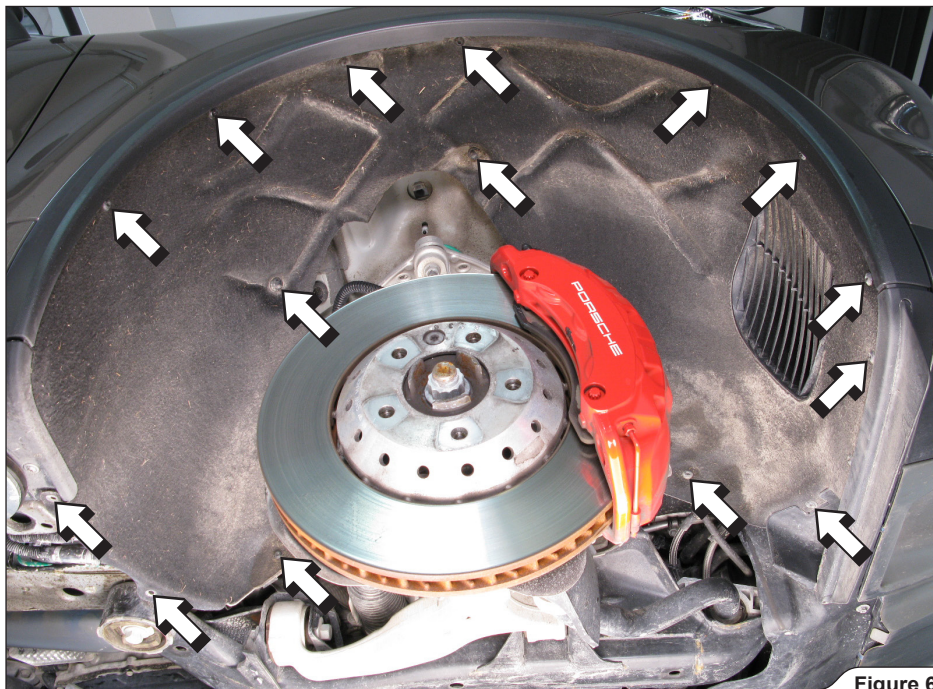


Figure 6

7. Unscrew the marked bolts and remove the right side underbody shield off the vehicle (**Figure 7**).

! WARNING: make sure not to injure yourself, or damage any part of the vehicle during this procedure!

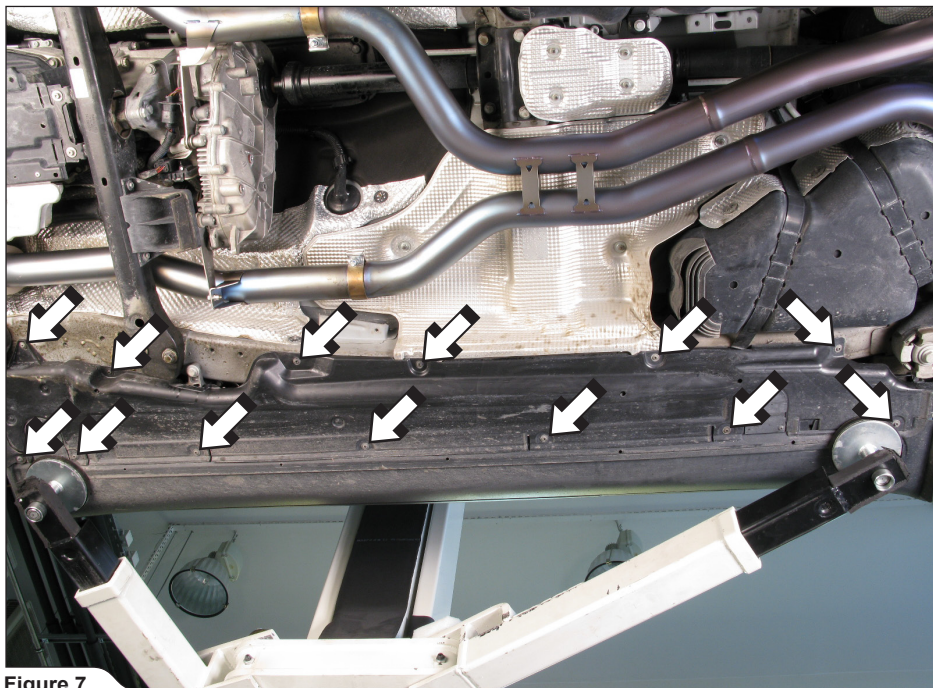


Figure 7

8. Undo the marked plastic fasteners and remove the right engine compartment cover (**Figure 8**).

! **WARNING:** make sure not to injure yourself, or damage any part of the vehicle during this procedure!

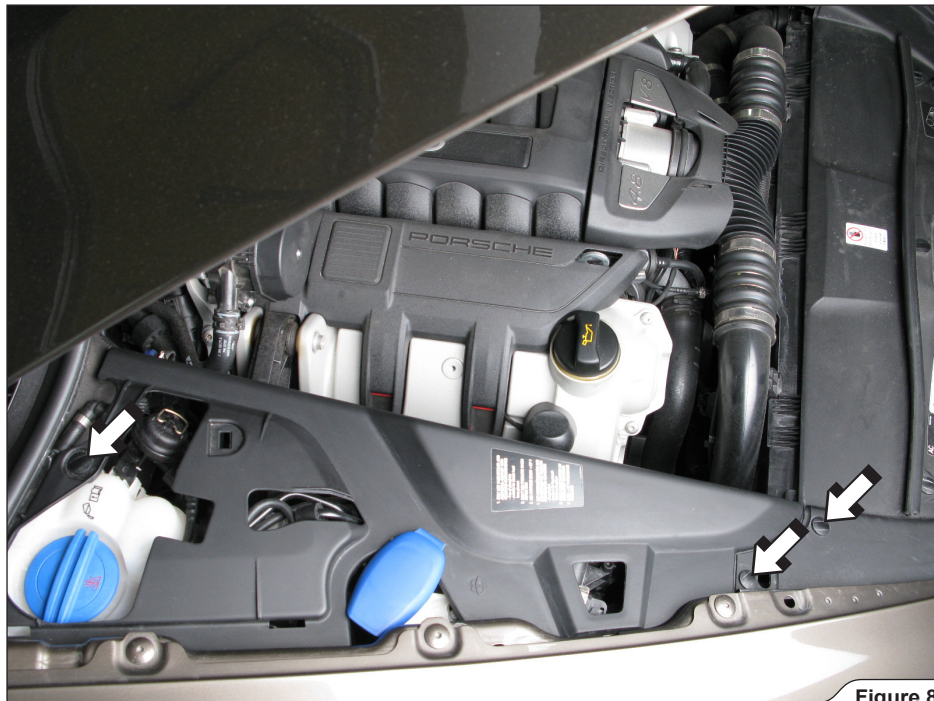


Figure 8

9. Remove the plug from the stock vacuum system outlet (**Figure 9**).



Figure 9

10. Connect the Akrapovič 430cm rubber vacuum hose to the stock vacuum outlet. Direct and secure the vacuum hose to the right rear wheel arch, as shown (**Figure 10, 11, 12, 13**).

! **WARNING:** direct and secure (use additional plastic tie wraps) the rubber vacuum hose in such a way, that it doesn't touch any hot or moving parts of the vehicle!



Figure 10

! WARNING: direct and secure (use additional plastic tie wraps) the rubber vacuum hose in such a way, that it doesn't touch any hot or moving parts of the vehicle!

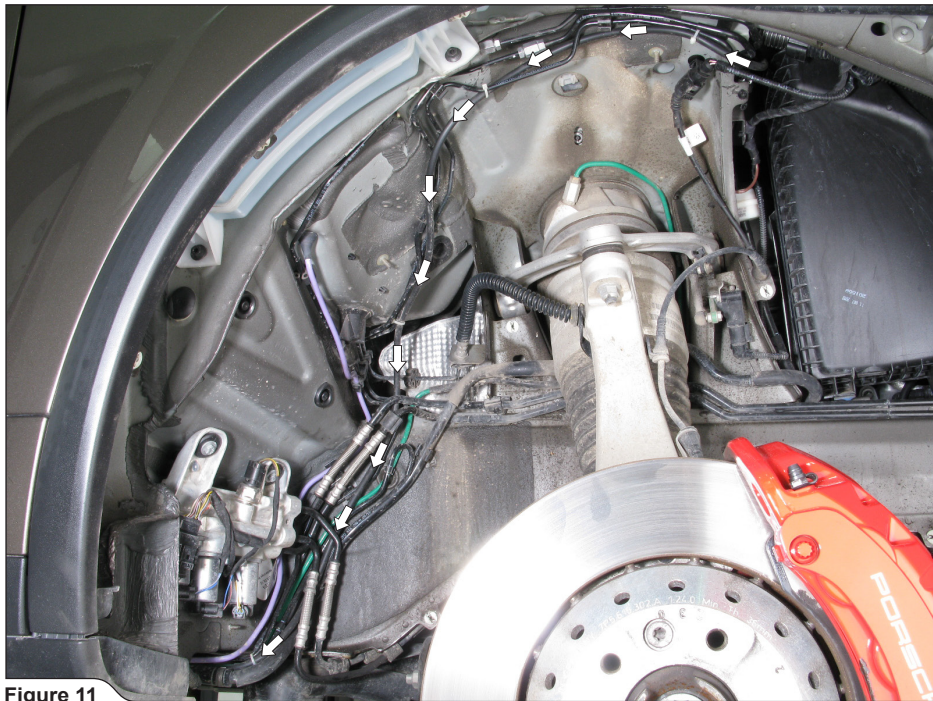


Figure 11

! WARNING: direct and secure (use additional plastic tie wraps) the rubber vacuum hose in such a way, that it doesn't touch any hot or moving parts of the vehicle!

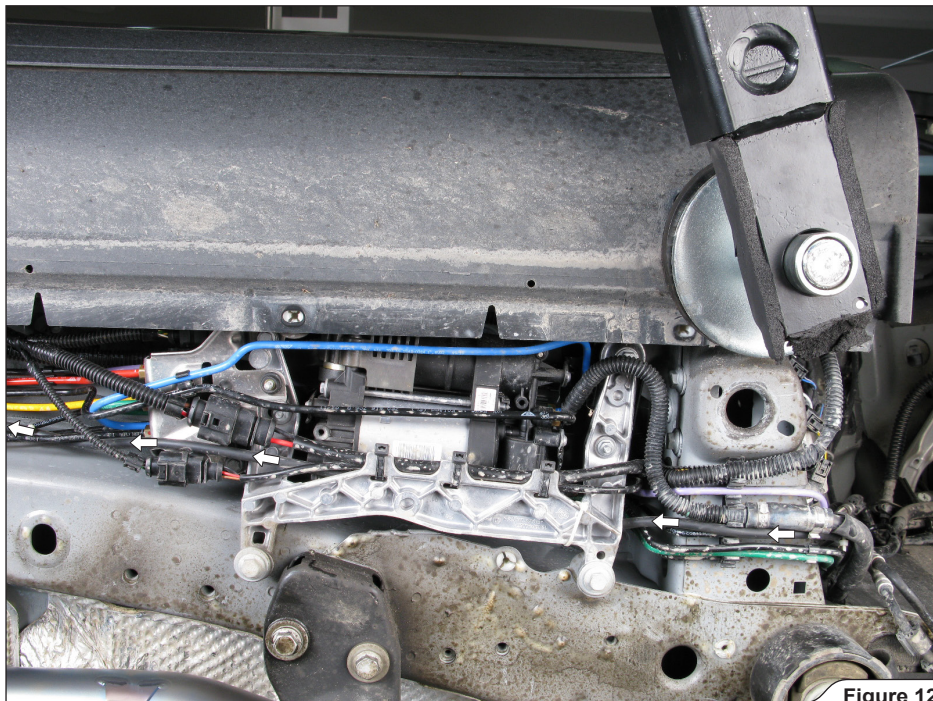


Figure 12

! WARNING: direct and secure (use additional plastic tie wraps) the rubber vacuum hose in such a way, that it doesn't touch any hot or moving parts of the vehicle!

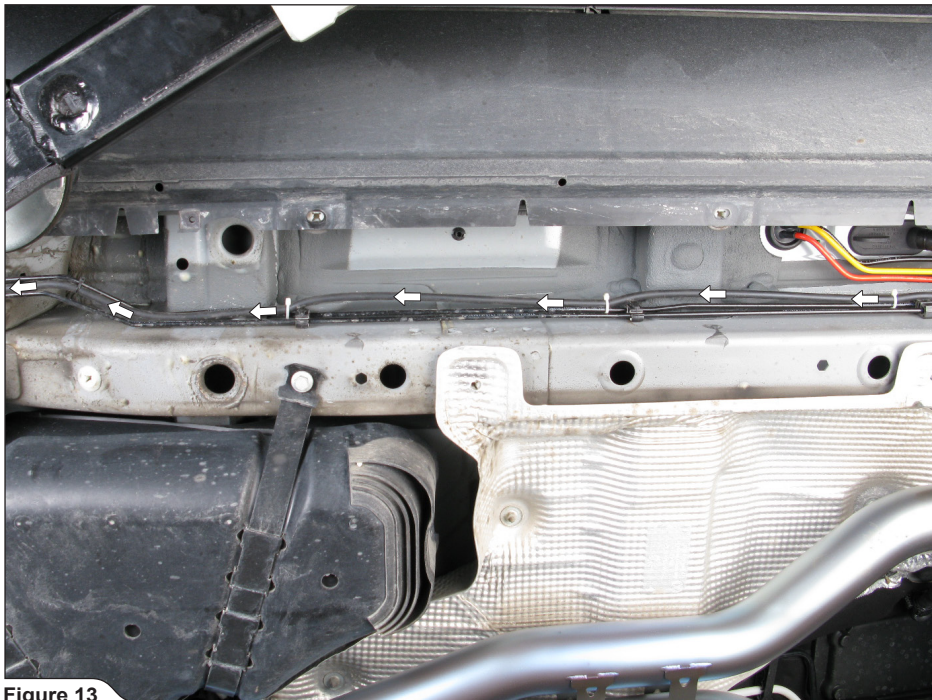


Figure 13

11. Connect the Akrapovič 165cm PVC vacuum hose to the Akrapovič rubber vacuum hose and penetrate the other end through the rubber seal into the trunk. Direct and secure the PVC vacuum hose, as shown (Figure 14, 15).

! **WARNING:** direct and secure (use additional plastic tie wraps) the vacuum hose in such a way, that it doesn't touch any hot or moving parts of the vehicle!

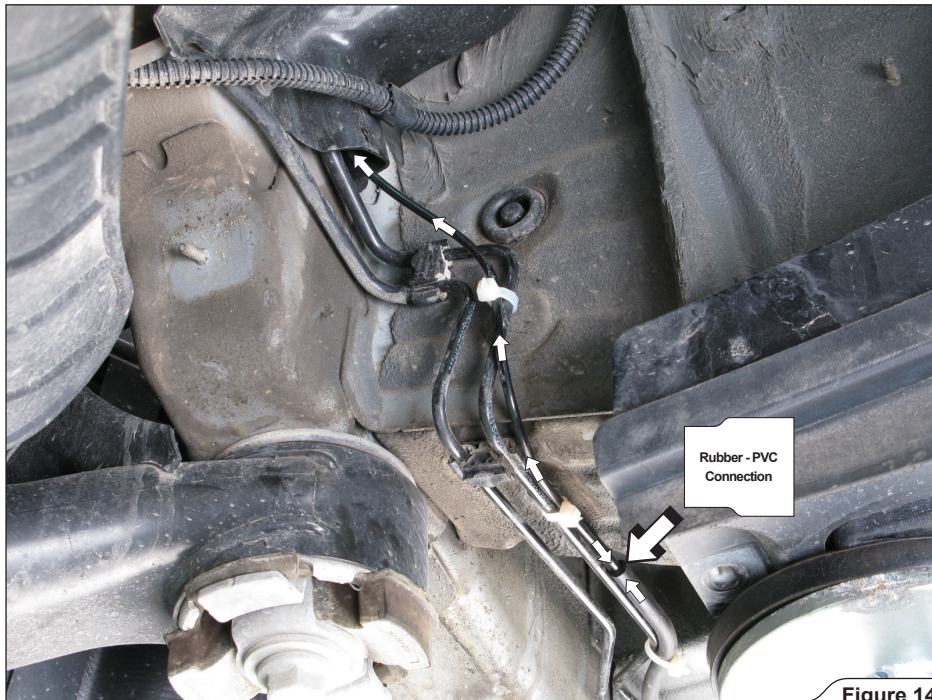


Figure 14

! **WARNING:** direct and secure (use additional plastic tie wraps) the vacuum hose in such a way, that it doesn't touch any hot or moving parts of the vehicle!

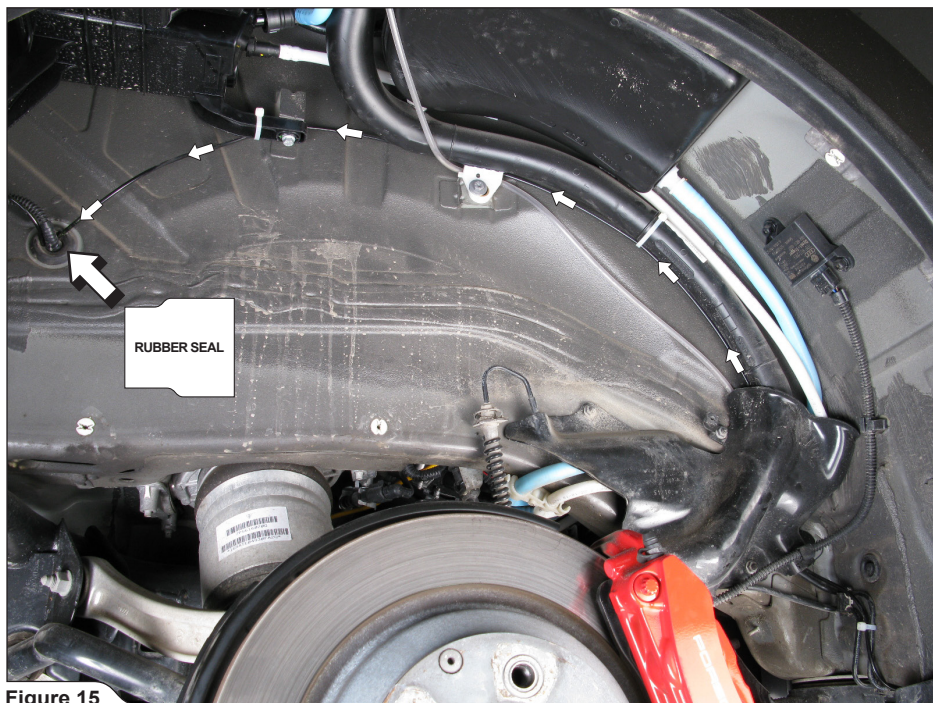


Figure 15

12. Penetrate the Akrapovič 105cm PVC vacuum hose through the rubber seal into the trunk. Direct and secure the PVC vacuum hose, as shown (Figure 16).

! WARNING: direct and secure (use additional plastic tie wraps) the vacuum hose in such a way, that it doesn't touch any hot or moving parts of the vehicle!

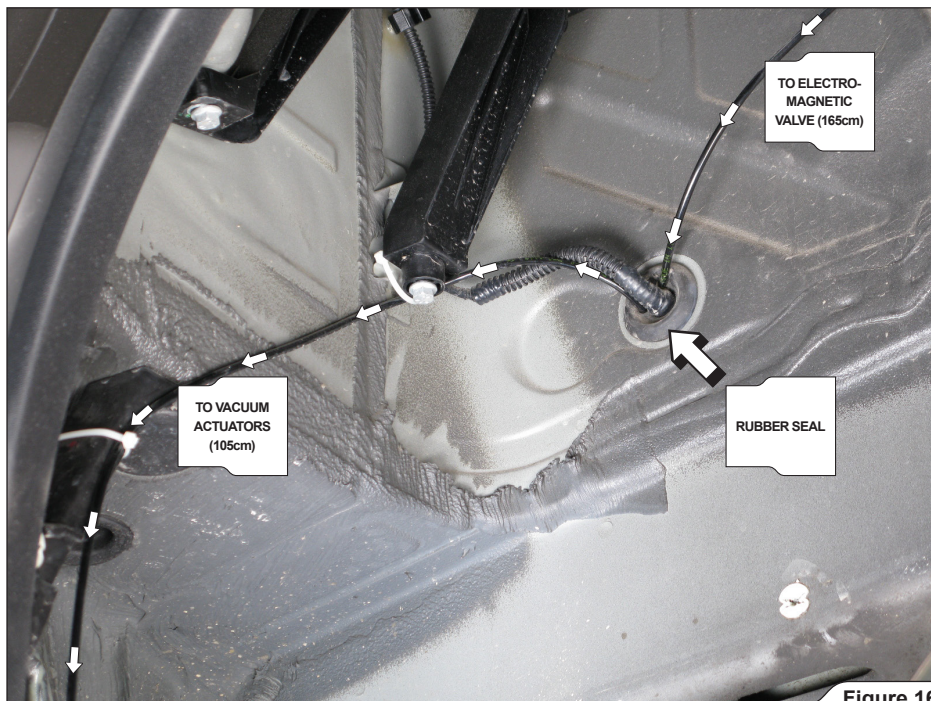


Figure 16

13. Link the Akrapovič 5cm rubber vacuum hose and plastic Y piece distributor to the PVC vacuum hose. Then connect the 120cm and 60cm rubber hoses to a Y piece distributor, as shown (Figure 17).

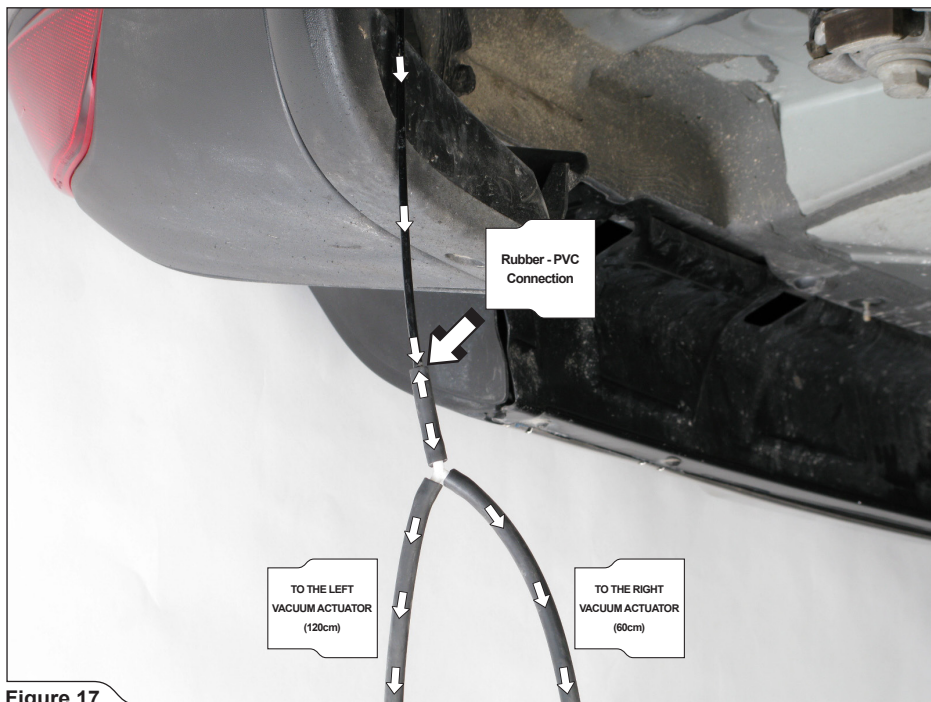


Figure 17

14. Direct the vacuum hoses as shown and tape them to the chassis (Figure 18).

! **WARNING:** direct and secure (use masking tape or equivalent) the vacuum hose in such a way, that it doesn't touch any hot or moving parts of the vehicle!

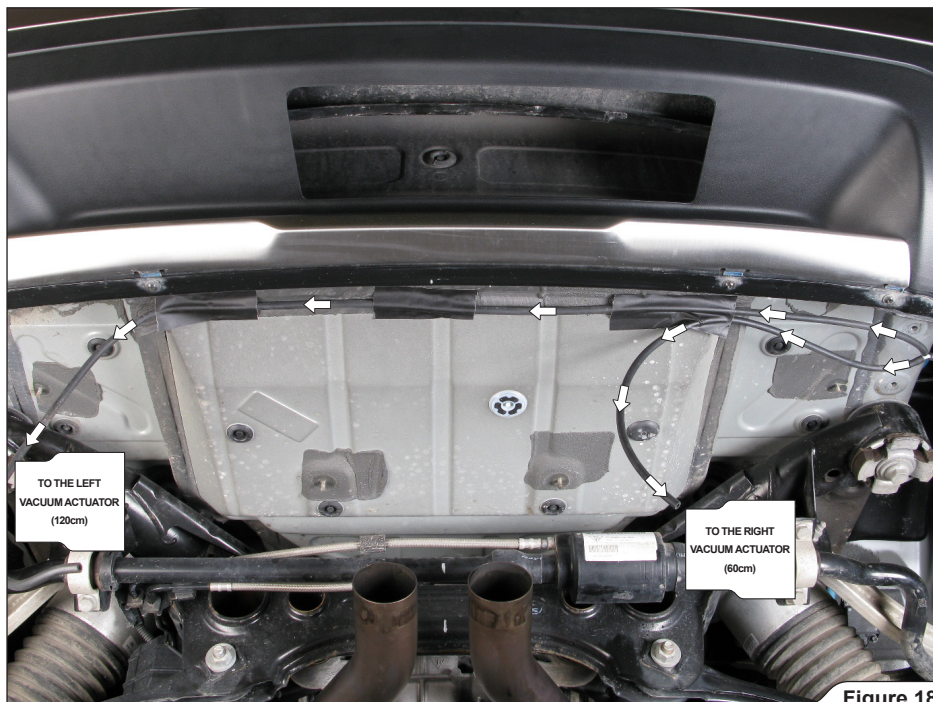


Figure 18

15. Reinstall the heat shield; adjust the vacuum hoses as shown (Figure 19).

! WARNING: make sure, that heat shield doesn't compress the vacuum hoses!

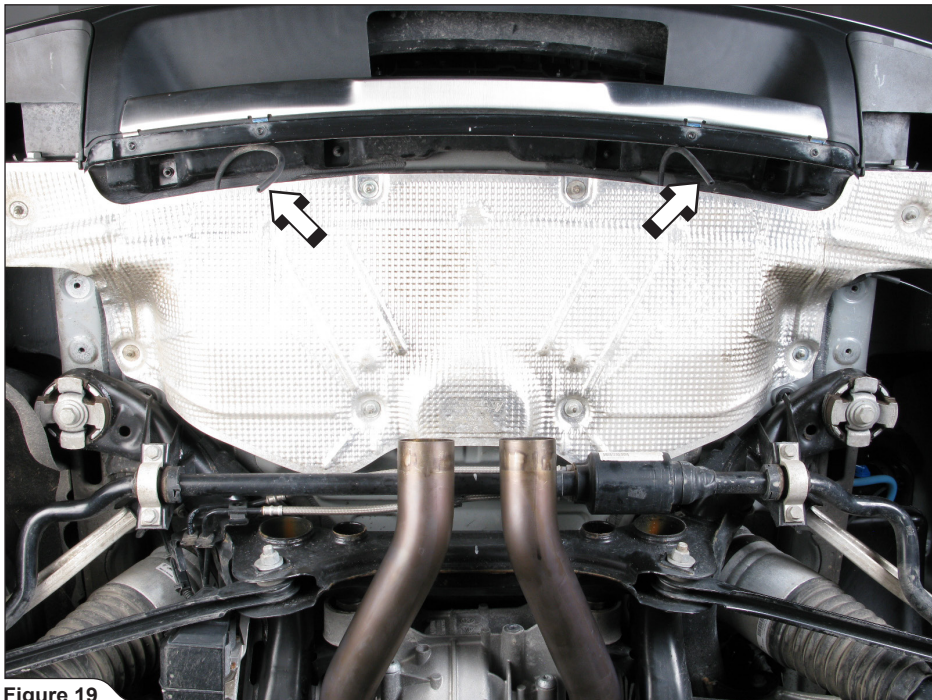


Figure 19

16. Correctly assemble the valve pipes onto the muffler; tighten the marked clamps and bolts on both sides of the muffler (**Figure 20, 21**).

! **WARNING:** use anti-seize copper paste on all clamps' bolt and nut threads!



Figure 20

! WARNING: adjust the outlet pipes and valve pipes, before tightening all the clamps and bolts (Figure 21)!

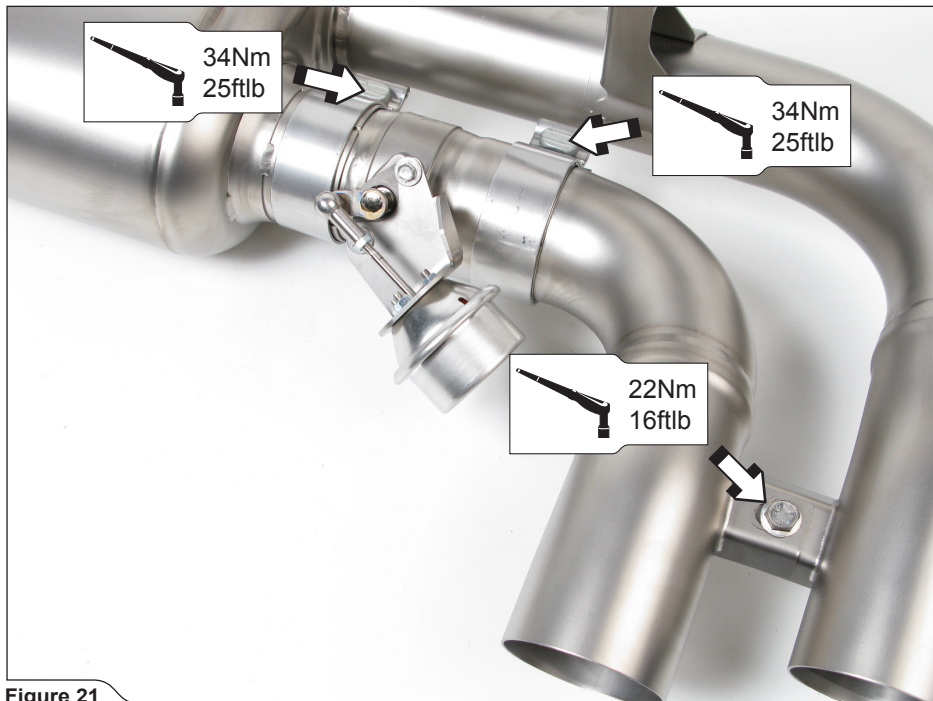


Figure 21

17. Reinstall the Akrapovič muffler onto the vehicle. Connect the vacuum hoses to both vacuum actuators (**Figure 22**).

✂ INSTALLATION TIP: check the Akrapovič Slip-On installation instructions for correct muffler installation procedure.

! WARNING: make sure, not to injure yourself or damage any part of the vehicle during this procedure!

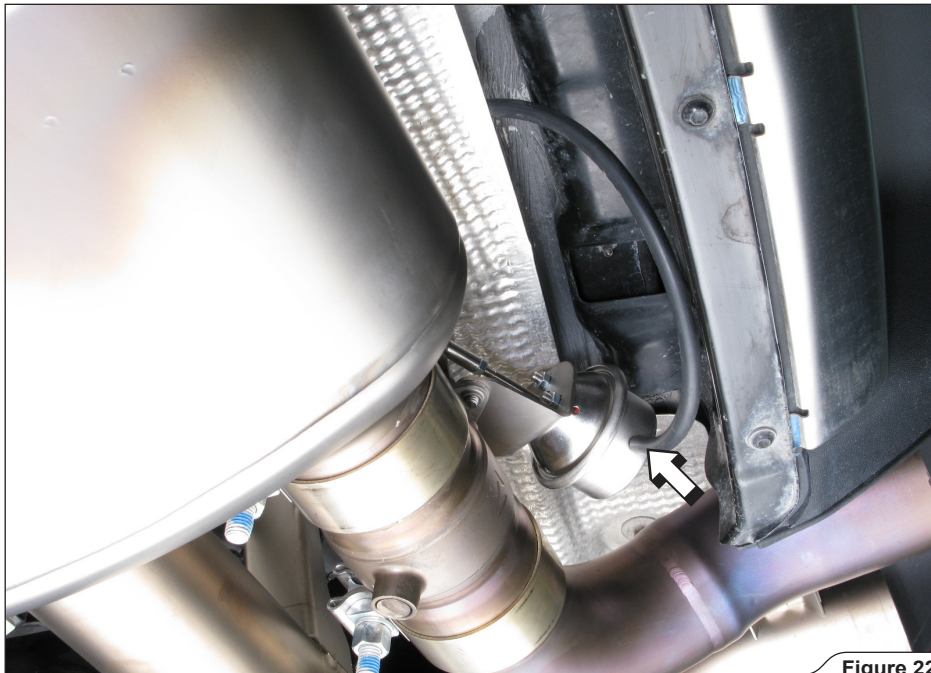


Figure 22

18. Secure the rubber - PVC joint of the vacuum hoses to the right muffler bracket, using additional plastic tie wrap (**Figure 23**).

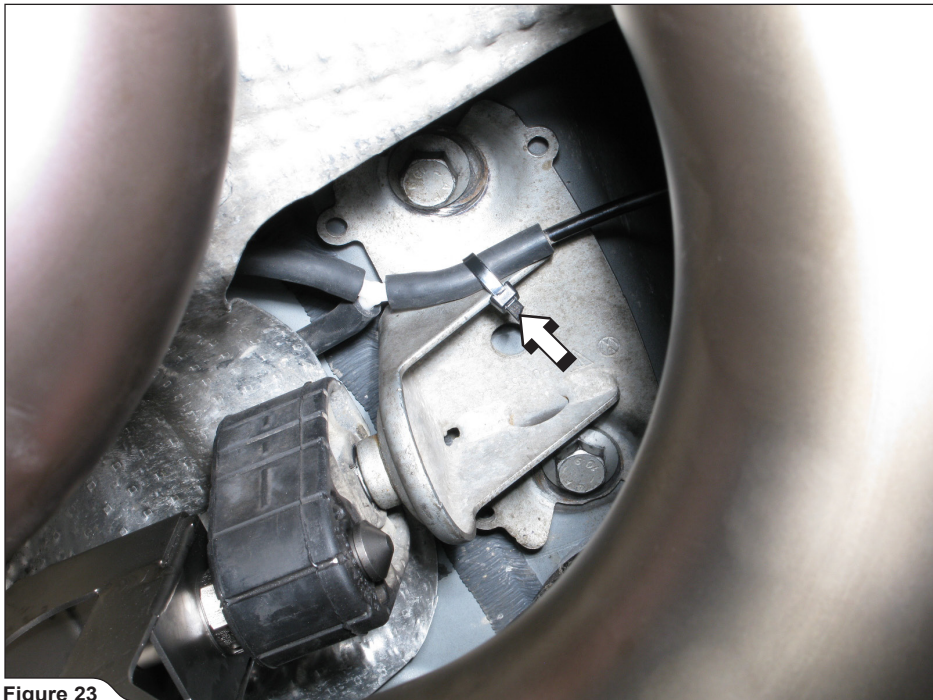


Figure 23

19. Transmitter wiring harness (Figure 24).

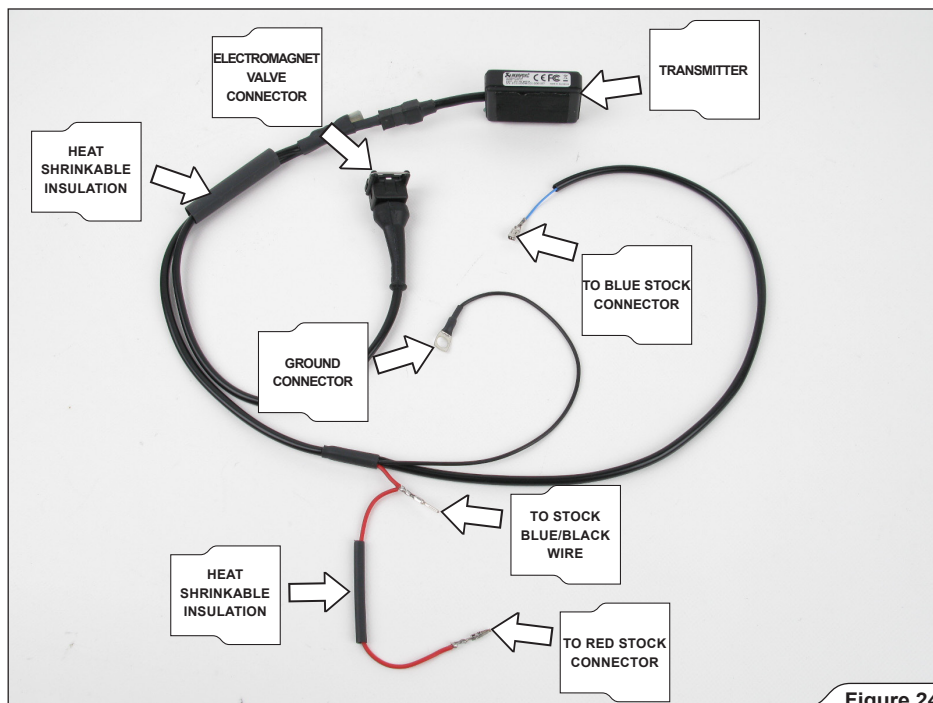


Figure 24

20. Attach the electromagnetic valve and transmitter's ground connector onto the chassis, as shown (Figure 25).

! **WARNING:** make sure not to injure yourself, or damage any part of the vehicle during this procedure!

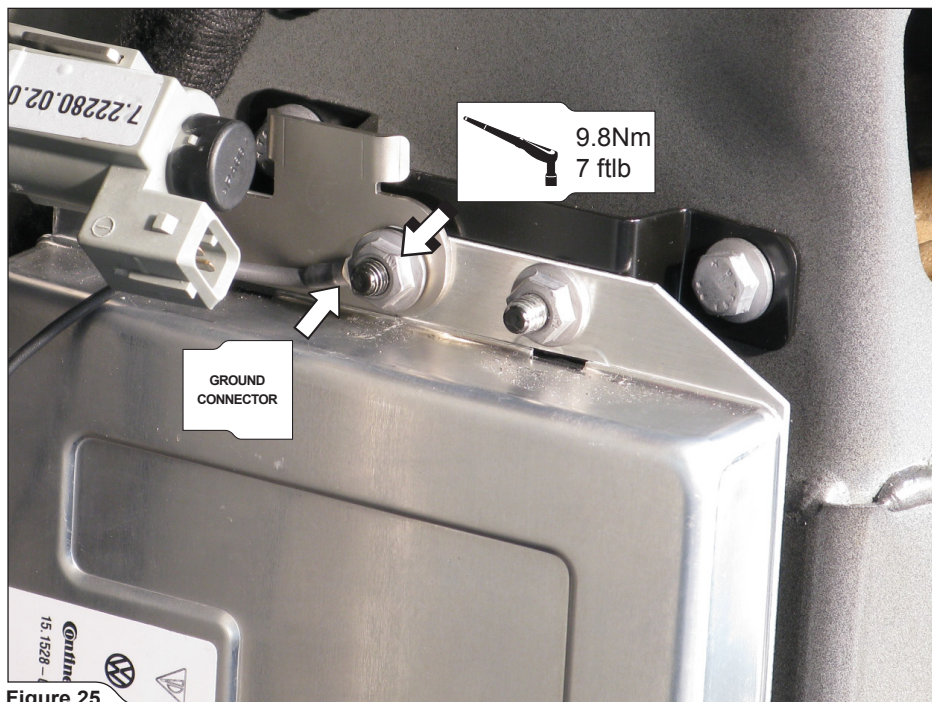


Figure 25

21. Correctly link the PVC vacuum hoses to the electromagnetic valve, using 20cm rubber vacuum hoses; connect the transmitter's connector to the electromagnetic valve (**Figure 26**).

! WARNING: make sure not to damage the valve or any other part during this procedure!

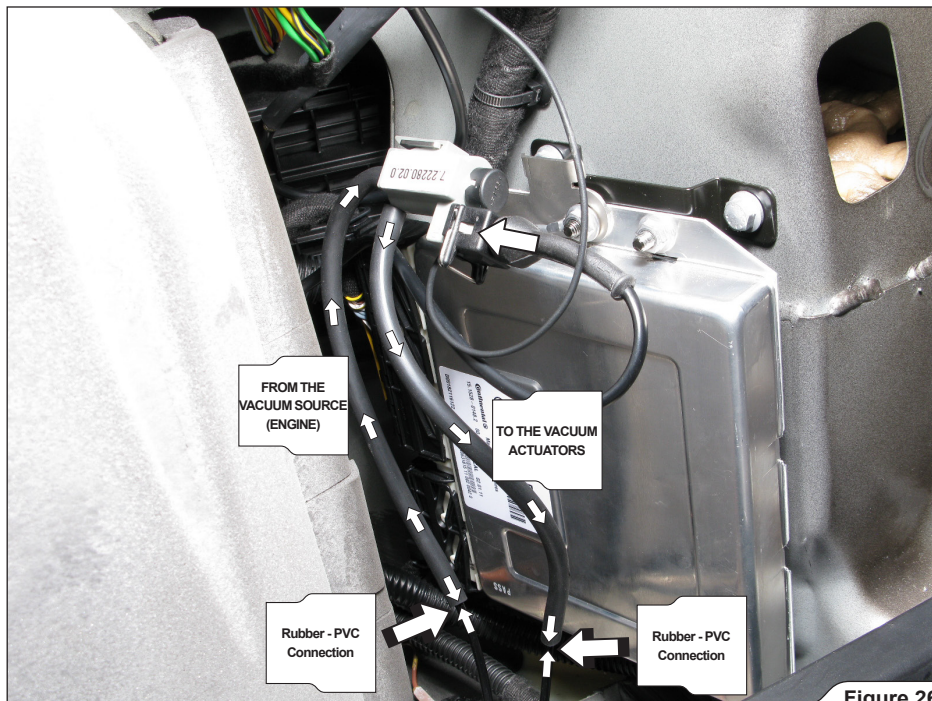


Figure 26

22. Secure the PVC vacuum hoses using additional plastic tie wrap, as shown **(Figure 27)**.



Figure 27

23. Direct the transmitter wiring harness and secure the transmitter as shown, using additional plastic tie (**Figure 28**).

! WARNING: make sure not to damage the valve or any other part during this procedure!

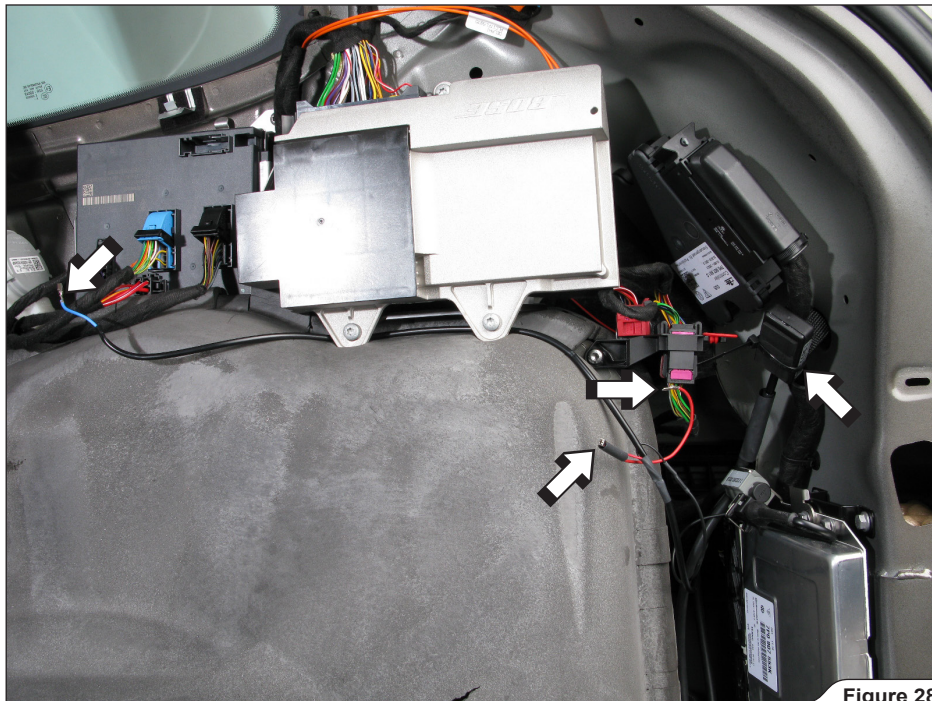


Figure 28

24. Disconnect the blue connector from the ECU unit (**Figure 29**).

! WARNING: make sure, that you don't damage any part of vehicle during this procedure!

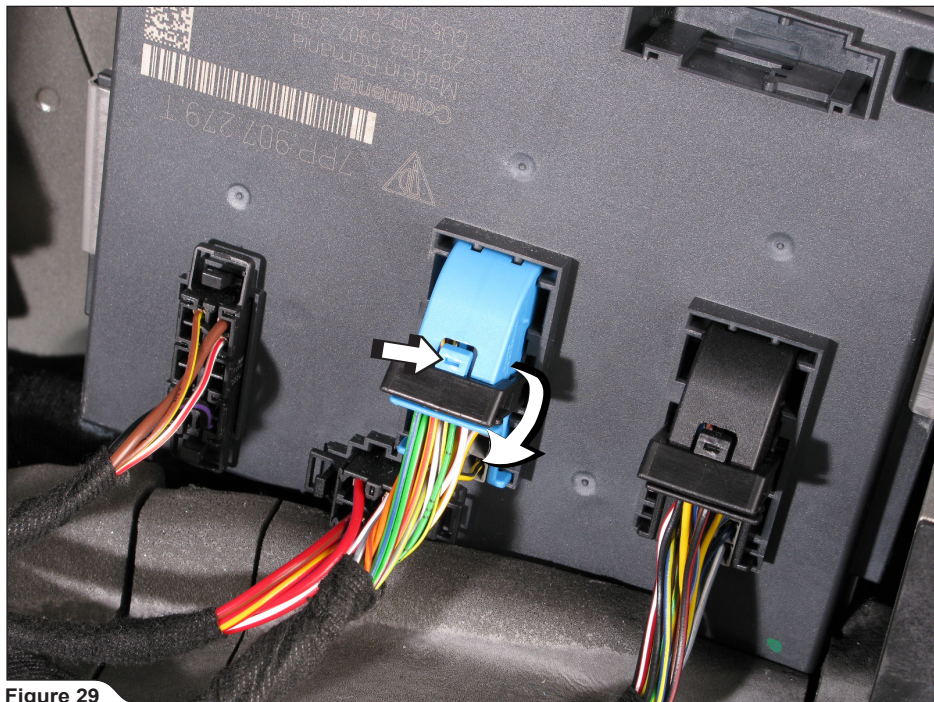


Figure 29

25. Dismantle the connector, plug the transmitter's blue wire with connector pin into the free connector spot (between yellow/white and yellow/black wires) and reconnect the connector into the ECU unit (**Figure 30, 31, 32**).

! **WARNING:** make sure, that you don't damage any part of vehicle during this procedure!

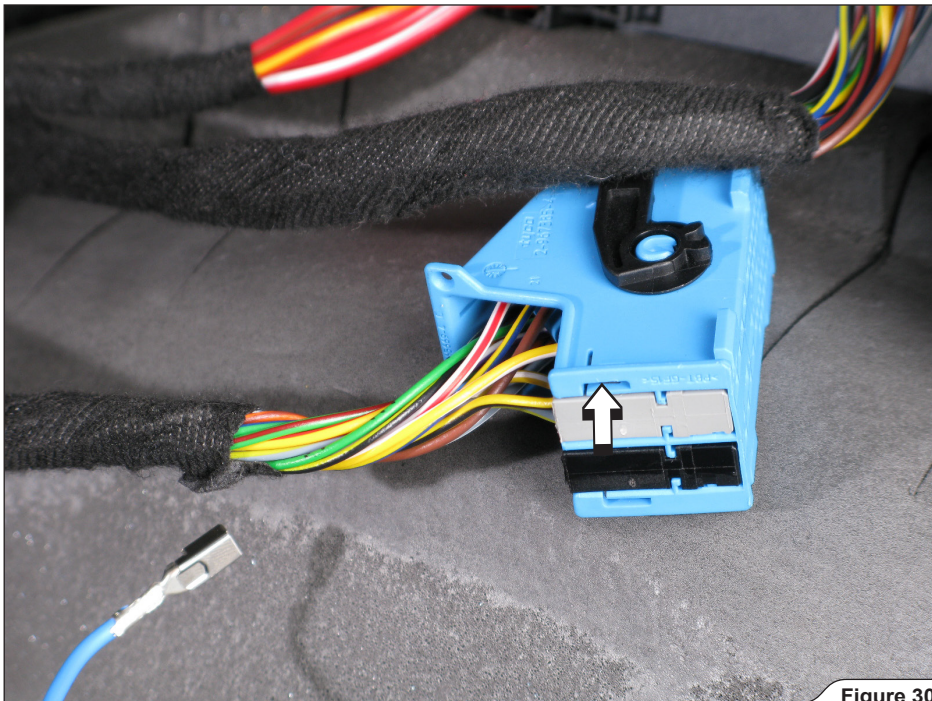


Figure 30

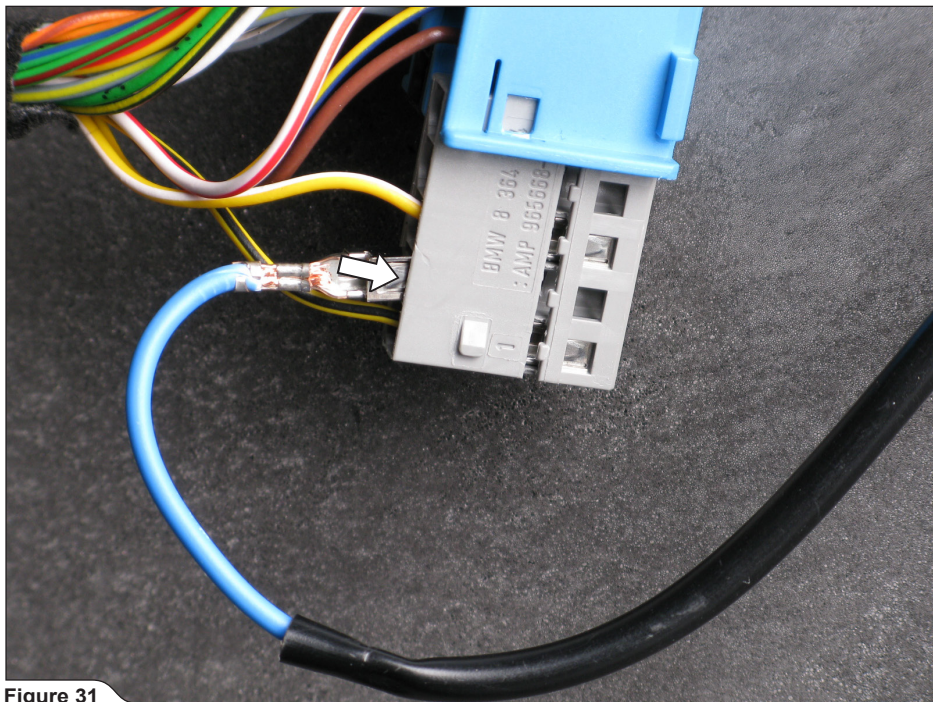


Figure 31

! WARNING: secure (use additional plastic tie wraps) the transmitter's blue wire, as shown (Figure 32)!



Figure 32

26. Disconnect the marked stock red connector (Figure 33).

! WARNING: make sure, that you don't damage any part of vehicle during this procedure!



Figure 33

27. Dismantle the connector and carefully remove the stock blue/black wire from the connector (Figure 34).

! WARNING: make sure, that you don't damage any part of vehicle during this procedure!

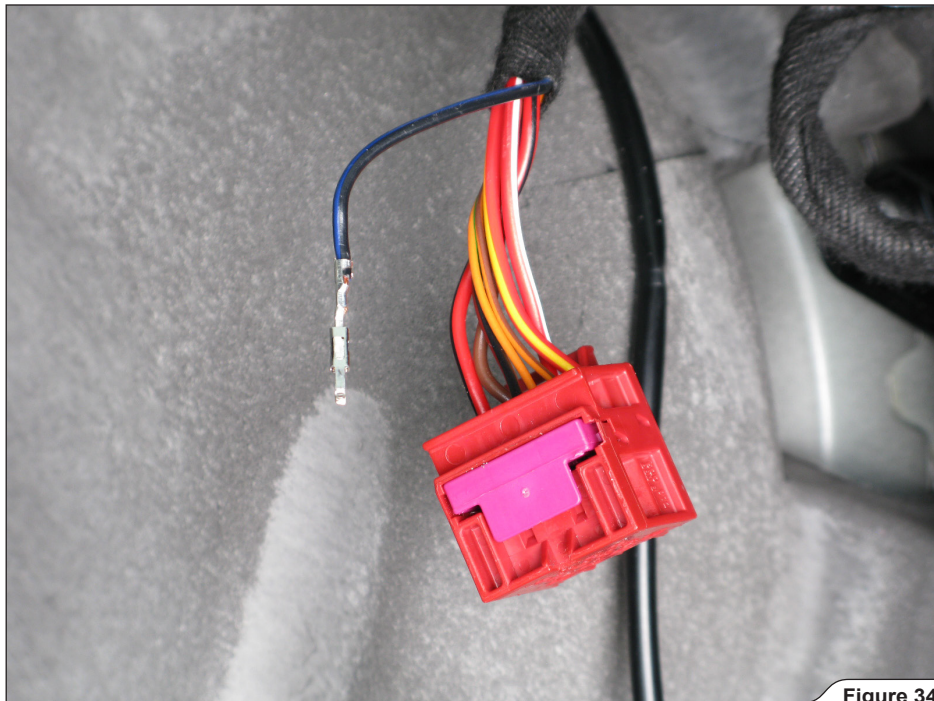


Figure 34

28. Connect the stock blue/black wire to transmitters red wire (Figure 35).

! WARNING: make sure, that you don't damage any part of vehicle during this procedure!

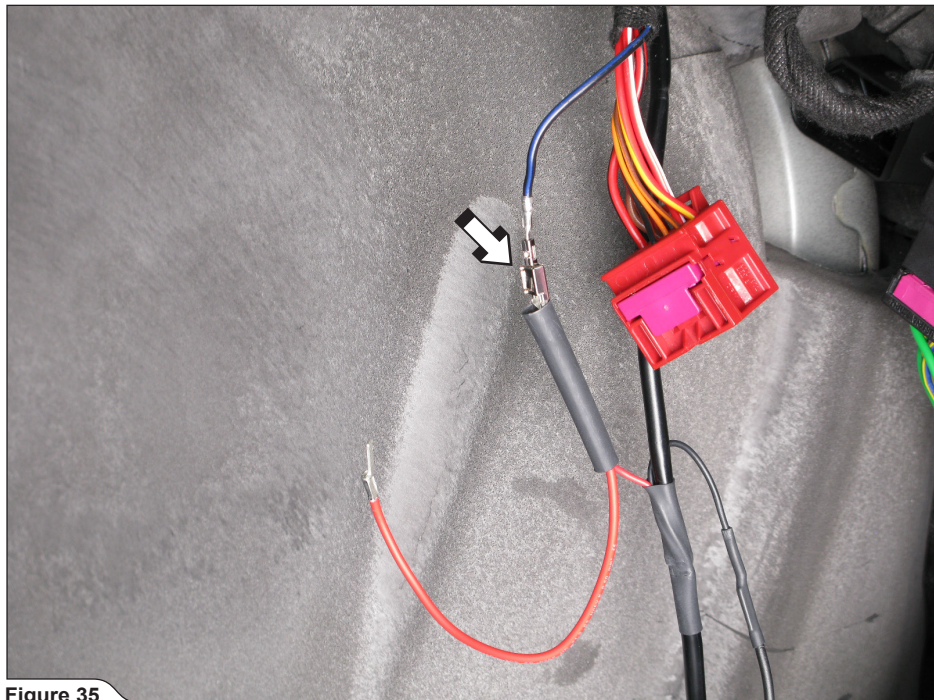


Figure 35

29. Plug the transmitter's red wire with connector pin correctly into the marked connector spot (replaces the stock blue/black wire), insulate the blue/black - red wire connection, using heat shrinkable insulation and reconnect the connector (**Figure 36, 37**).

! WARNING: make sure, that you don't damage any part of vehicle during this procedure!

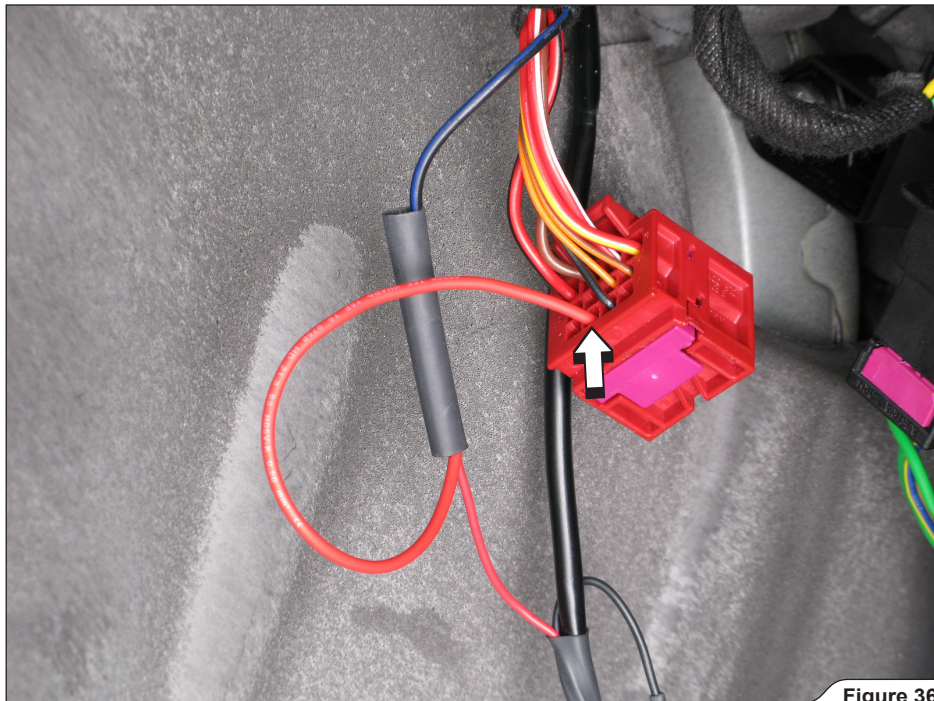


Figure 36



Figure 37

30. **For cigarette lighter socket powered keyfob option:** insert the keyfob into the cigarette lighter socket, start the engine and test the keyfob operations (**Figure 38**).



Figure 38

31. Replace all dismantled original parts in the reverse order from the order in which they were removed. Check vehicle manufacturer manual for tightening torques.

! WARNING: make sure not to injure yourself or damage any part of the vehicle during this procedure!

KEYFOB OPTIONS:

1. Composition of remote and optional dashboard mounted keyfob components (**Figure 39**).



Figure 39

2. Optional reducible component for cigarette lighter socket powered keyfob (**Figure 40**).



Figure 40

3. Correctly assembled dashboard or additional bracket mounted keyfob components (**Figure 41**).

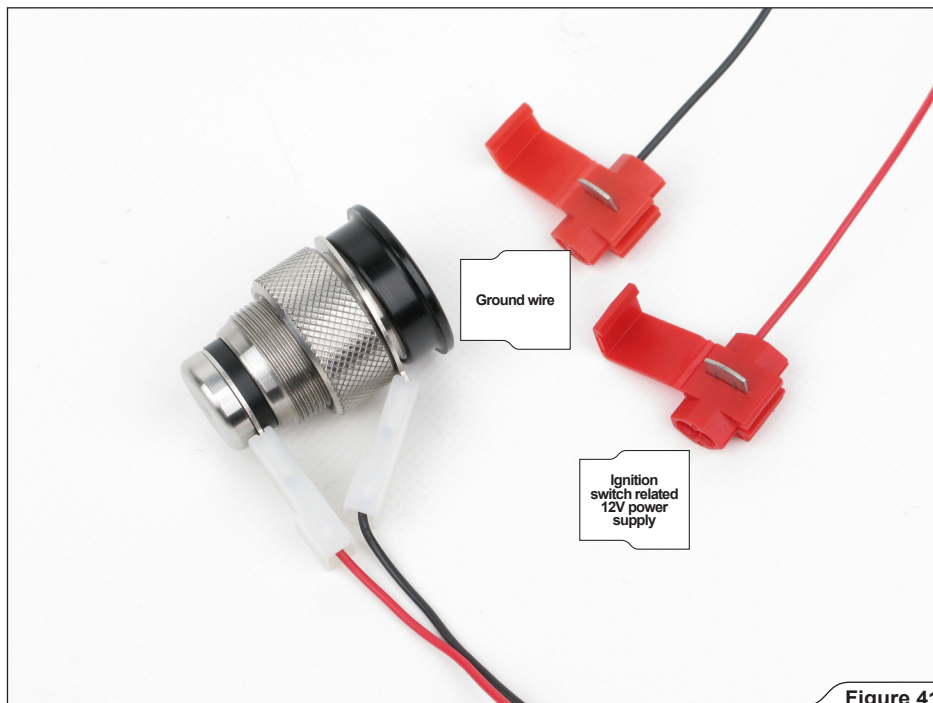


Figure 41

4. Changing of remote keyfob battery (Figure 42).

! **WARNING:** make sure, that you insert the new battery correctly! Check the polarity of the battery (Battery type: Lithium CR1632 3V)!



Figure 42

KEYFOB OPERATION:

1. **USE:** keyfob is used to operate and control the exhaust system flaps.
2. **RANGE OF OPERATION:** inside and few meters around the vehicle.
3. **POWER OPTIONS:**

a) Battery power:

- when operating, press the button for more then two seconds.
- when pressed, the illumination turns on, and when released, it turns off.
- in battery mode, only half of the circle around the scorpion symbol is illuminated.
- if in use, battery life is approx. 1 year and if not in use, approx 2 years (Battery type: Lithium CR1632 3V).

b) 12V power (cigarette lighter socket):

- when operating, press the button for more then half a second.
- when pressed, the illumination stays on, depending on mode (on/off).
- in 12V mode, the whole of the circle around the scorpion symbol is illuminated.

4. KEYFOB MODES:

a) Battery power:

- CLOSED VALVES:



- OPEN VALVES:



- LOSS OF COMMUNICATION:
1 period of 5 flashes of white illumination.

b) 12V power (cigarette lighter socket):

- CLOSED VALVES:



- OPEN VALVES:



- LOSS OF COMMUNICATION:
3 periods of 5 flashes of white illumination.

5. **SAFETY:**



SWITCH ON: do not switch the keyfob on when wireless device use is prohibited or when it may cause interference or danger.



ROAD SAFETY COMES FIRST: obey all local laws. Always keep your hands free to operate the vehicle while driving. Road safety should be your first consideration while driving.



INTERFERENCE: all wireless devices may be susceptible to interference, which could affect performance.



SWITCH OFF IN HOSPITALS: follow any restrictions. Near medical equipment, switch the keyfob device off.



SWITCH OFF IN AIRCRAFT: follow any restrictions. Wireless devices can cause interference in aircraft.



SWITCH OFF WHEN REFUELING: do not use the keyfob at a refueling point. Do not use near fuel or chemicals.



SWITCH OFF NEAR BLASTING: follow any restrictions. Do not use the device where blasting is in progress.



QUALIFIED SERVICE: only qualified personnel may install or repair this product. Please refer to the wireless kit serial number in case of ordering any spare parts.



WATER-RESISTANCE: your keyfob is not water-resistant. Keep it dry.

Final installation:

- ! **WARNING: check vehicle manufacturer manual for tightening torques (for dismantled stock parts)!**
- ! **WARNING: make sure all the nuts and bolts are sufficiently tightened. In case the exhaust system touches the cowl or other parts, repeat the adjustment of the exhaust system or contact your authorized dealer.**

MAINTENANCE OF THE AKRAPOVIČ EXHAUST SYSTEM:

1. Clean the titanium exhaust components with a multi-purpose spray lubricant (WD-40 or equivalent), carbon fiber exhaust components with soft and dry cloth and stainless steel components with soft cloth sprayed with contact cleaner, then wipe with soft and dry cloth. A change in the color of the exhaust system is normal due to high temperatures.
2. Periodically make sure all the bolts and springs are sufficiently tight.

- ! **WARNING: clean all exhaust components before the first start of the engine or the stains will burn onto the surfaces!**
- ! **IT IS NORMAL FOR WHITE SMOKE TO COME OUT OF THE MUFFLER AT FIRST OPERATION.**
- ! **DO NOT STAND BEHIND THE MUFFLER AT FIRST OPERATION.**
- ! **DO NOT USE AUTOMOTIVE WHEEL CLEANERS OR ANY CLEANING PRODUCTS WHICH CONTAIN ACIDIC ADDITIVES TO CLEAN THE AKRAPOVIČ EXHAUST SYSTEMS.**

WARNING

Please note that certain aftermarket exhaust systems may not comply with applicable California laws and regulations, and may therefore be prohibited for use on California highways or roads, or on roads or vehicles otherwise subject to emissions control requirements.

Akrapovič exhaust systems for automobiles and motorcycles mounted downstream of the catalytic converter (also known as “cat-back systems”) are considered “replacement parts” in California by the California Air Resources Board (CARB), and do not require an exemption or executive order from CARB to be sold in California. However, California prohibits the use of any aftermarket exhaust system that modifies, removes or replaces original equipment catalysts, unless CARB has issued an Executive Order as to such part or system.

Further, Akrapovič parts or exhaust systems used or intended for use on “racing vehicles” (i.e. a competition vehicle used exclusively for competition on closed-course circuits) do not require an exemption or Executive Order from CARB to be sold in California. However, such parts are prohibited from use on California public highways or roads, even if occasionally used “off-road.”

! CAUTION: secure all vacuum tubing connections, using clamps from Akrapovič installation kit! Install the clamps with corresponding tube clamp pliers.



www.akrapovic.com

