



# INSTALLATION INSTRUCTIONS

*v1.5 June 29, 2023*

**MODEL#**

*AKGTK\_1.0*

**SERIAL#**



# ÄCHTUNG KRAFT // ACTIVE EXHAUST

*Let's Get Started*

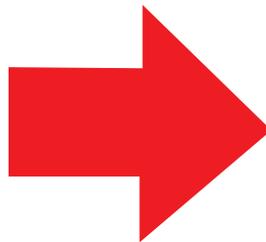
## **The GT/k Active Muffler A New Standard of Performance, Sound, and Versatility for Your Air-Cooled Porsche**

We heard all the complaints about the muffler options on the market for air-cooled cars and decided to do something to address all them at once. From; too loud/too quiet, mine drones so bad, high-pitch sound, closed is loud and open is loud AF, no one wants to ride in my car, my head hurts, I have tried X mufflers and I have to swap for different driving.... Lots of the same issues over and over and over...

### **OUR VISION FOR THE GT/k MUFFLER:**

*Engineer an Air-Cooled Muffler that gives unmatched versatility, unrivaled sound quality that easily adapts to any driving situation, allows customization for individual needs and is a quick and simple installation.*

**STEP #1  
WATCH  
INSTALL  
VIDEO**



**<https://bit.ly/GTKInstall>**

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*Testing your muffler*

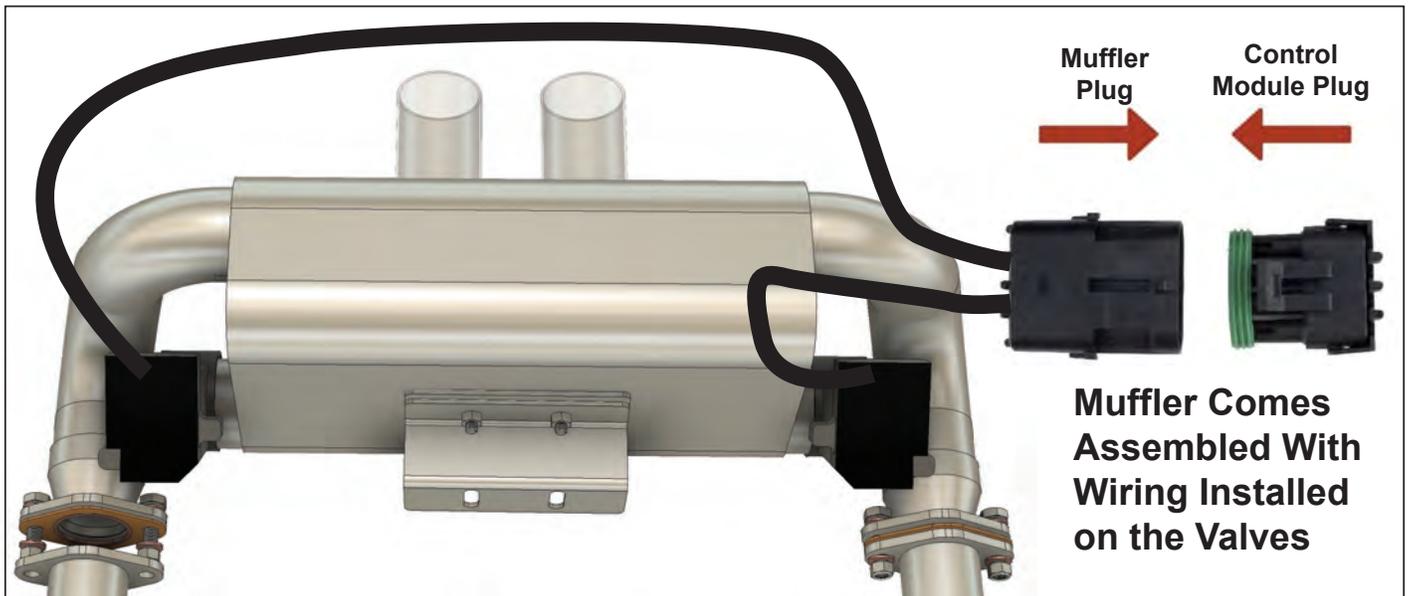
## STEP #2 TEST YOUR INSTALL:

After you have followed the directions in the install video, we recommend the following testing process to ensure all is working.

1. **Begin by starting your car** with the control module's cover still off. After 3-10 seconds, ensure that the blue LED on the board is illuminated.
2. **Utilizing the Trigger Module**, press the open side of the toggle switch.
3. **Observe the valve movement** on the muffler visually as you press open or close, ensuring to wait 8 seconds between each press. (*NOTE: While the changes in exhaust note are less noticeable at idle, you'll notice significant differences with the valves open or closed when driving or revving.*)
4. **Install the control module cover.**
5. **Leave silencer tips installed and drive the car**, using the trigger to open and close the valves along a familiar route.
6. Return home and allow the muffler to **cool down before removing the silencers**. Repeat the test route.
7. **Evaluate the different modes** during your drive to determine which ones best suits your driving style.
8. **Install the trigger switch plate** beneath the knee pad.
9. Drive and relish the pleasure of your new muffler!

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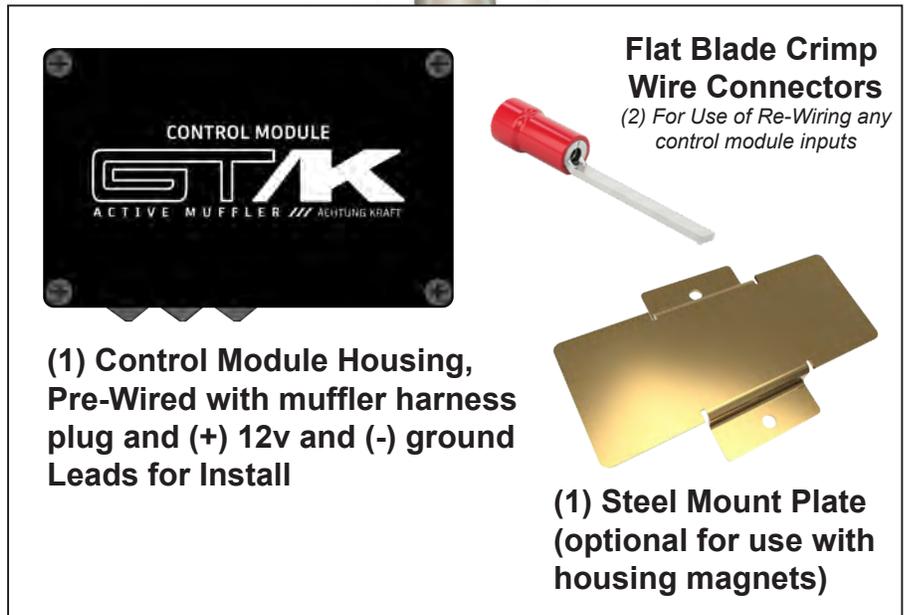
## Included Parts List



**Muffler Comes Assembled With Wiring Installed on the Valves**



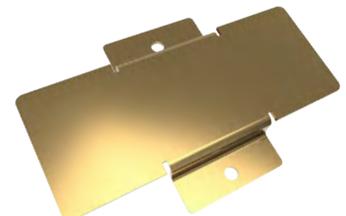
**(1) Wireless Trigger Module Pre-Wired With Rocker Switch on Install Plate**



**(1) Control Module Housing, Pre-Wired with muffler harness plug and (+) 12v and (-) ground Leads for Install**

**Flat Blade Crimp Wire Connectors**

*(2) For Use of Re-Wiring any control module inputs*



**(1) Steel Mount Plate (optional for use with housing magnets)**



**(2) Silencer Alignment & Install Tools**



**(2) Silencer Inserts**  
*Set Installed on shipment*  
*(1) Additional Bolt*  
*(2) Additional Nordlock Washers*



**M10 SSI Hardware:**  
*(2) Gaskets*  
*(4) M10 Bolts, Washers, Lock Washers & Nuts*

# ÄCHTUNG KRAFT // ACTIVE EXHAUST

## Overview on Available Sound Modes

### ACTIVE MUFFLER // 4 LEVELS OF SOUND

Our **Active GT/k Muffler** offers four distinct sound profiles to ensure that drivers have the flexibility to tailor their vehicle's sound to any occasion, driving style, or personal preference. We have tuned each mode to keep a more mild idle, while unleashing the sounds when the revs climb.

With the ability to switch between **Touring/Sport** (*with the silencer insert*) or **Rebel/Rowdy** (*no insert*), Porsche enthusiasts can enjoy a versatile and dynamic auditory experience, progressively increasing in aggressiveness and loudness, all from a single muffler.

#### TOURING // CLOSED - with Silencer

The Touring sound profile is tailored for those seeking a refined and sophisticated exhaust note. It provides a mellow and subtle sound, allowing for a comfortable and relaxed driving experience. It is perfect for daily commuting, long highway drives, or occasions when a discreet and elegant exhaust note is desired. Touring mode delivers a sporty exhaust note that is great for everyday drives.

#### SPORT // OPEN - with Silencer

The Sport sound profile offers a more dynamic and spirited exhaust tone, enhancing the driving experience with a noticeable presence. It provides a deeper and throatier sound, amplifying the engine's performance characteristics when over 2k RPM. The Sport mode delivers a satisfying growl and increased volume compared to the Touring mode, ideal for spirited driving on winding roads or when desiring a more engaging driving experience.

#### REBEL // CLOSED - NO Silencer

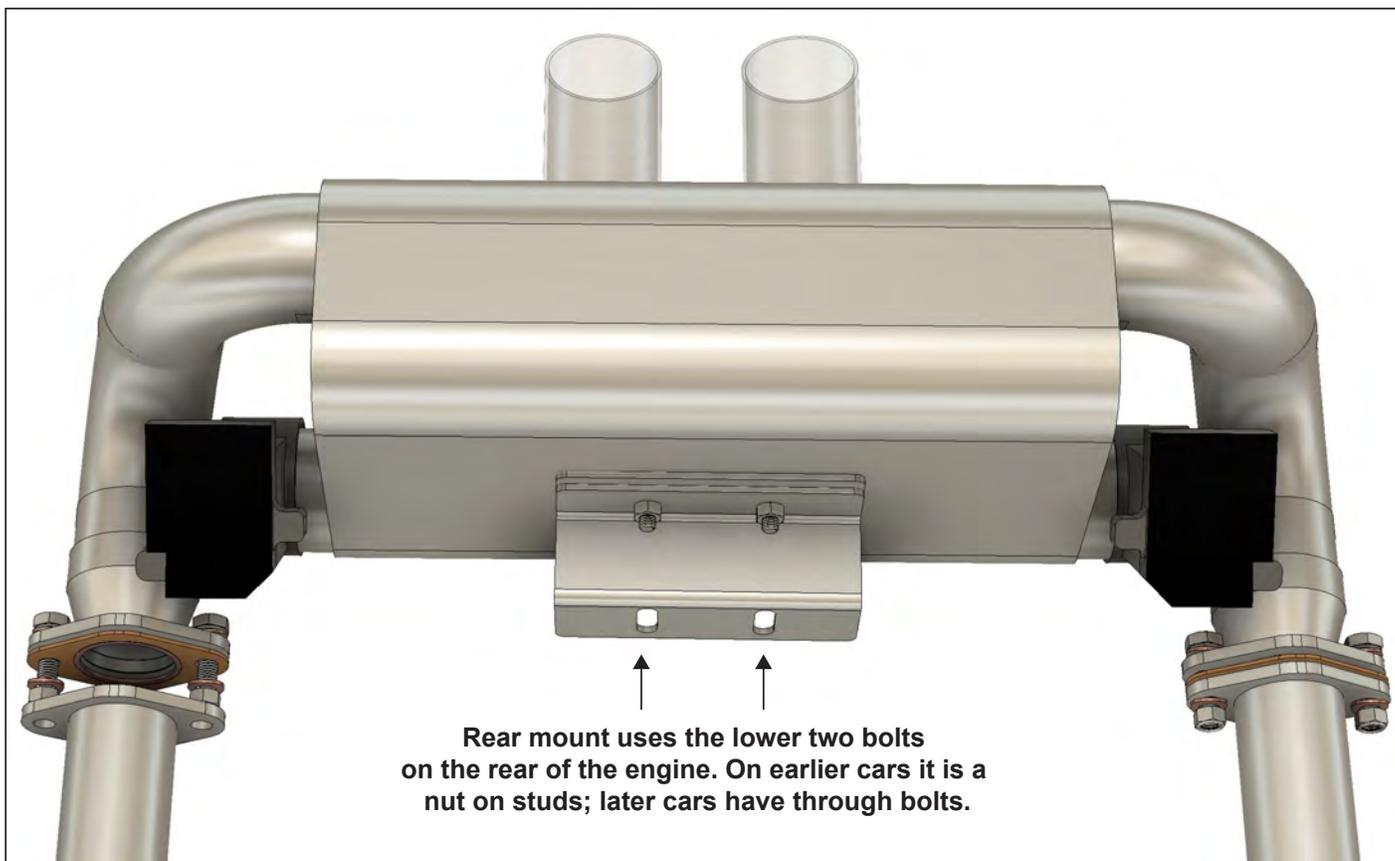
For those seeking a more aggressive and attention-grabbing exhaust note, the Rebel sound profile delivers an assertive and powerful tone. It combines a deep rumble with increased volume, making a bold statement and turning heads wherever you go. The Rebel mode is suited for those who want their Porsche to be noticed and prefer a strong and captivating sound, while still maintaining a refined edge.

#### ROWDY // OPEN - NO Silencer

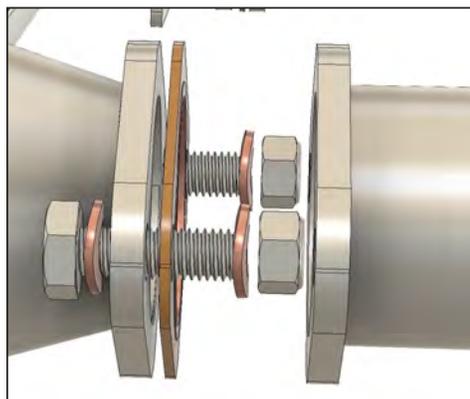
The Rowdy sound profile represents the pinnacle of intensity and performance-oriented sound. On throttle it unleashes an aggressive and thunderous exhaust note that demands attention and announces your arrival. The Rowdy mode delivers an exhilarating symphony of sound, providing an experience for those who seek the ultimate in auditory excitement. It is perfect for spirited drives, Rallyes, track days, or anytime you want to showcase the raw sound of your flat-six.

# ÄCHTUNG KRAFT // ACTIVE EXHAUST

## SSI Muffler Install

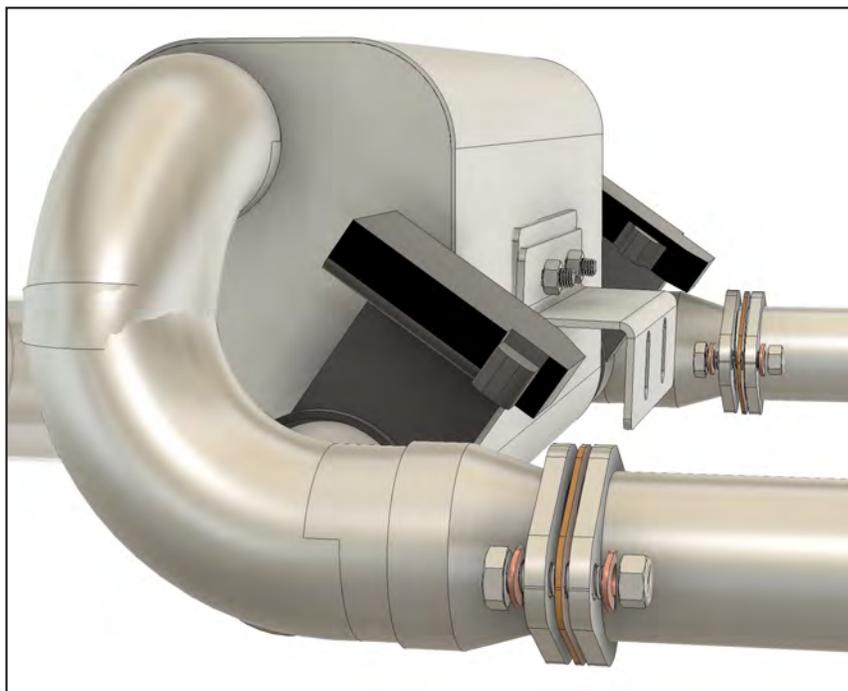


Rear mount uses the lower two bolts on the rear of the engine. On earlier cars it is a nut on studs; later cars have through bolts.



### TO MOUNT MUFFLER:

1. Remove lower 2 engine mount bolts
2. Slide rear L-Mount onto the lower mounts
3. Hand Tighten the bolts/nuts
4. Align muffler ends to SSIs
5. Bolt / Flat Washer / Muffler Flange / Gasket / SSI Flange / Lock Washer / Nut
6. Tighten all SSI Flange bolts
7. Final tighten two rear mount bolts/nuts



# ÄCHTUNG KRAFT // ACTIVE EXHAUST

## Overview of wireless controller system functions

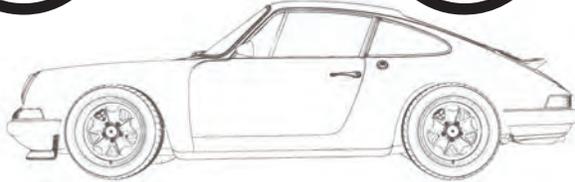


### A // WIRELESS TRIGGER

- 3v Battery powered
- 4 momentary triggers
- Use with momentary Switch(es) or ECU Trigger
- Installs anywhere



RF 433mhz  
WIRELESS



### B // ACTIVE MUFFLER CONTROL MODULE

- Uses non-switched power in engine bay
- 4 momentary trigger receiver
- 4 momentary ECU Trigger Pins (5v High)
- ECU control board allows for custom programming of each trigger
- Controller "sleeps" on shut-off to conserve battery power
- On start-up-sequence ensures muffler closes every start-up

## ACTIVE MUFFLER // CONTROLLER FEATURES

### 1 // At Rest Voltage below ~12.4v

When the voltage of the car is below ~12.4v, the active controller goes to sleep. It consumes less than ~0.5ma of power while in rest mode.

### 2 // Start-up Sequence Voltage goes above 12.6v

On start-up when the active controller senses >12.6v its wakes up. Upon waking up, it runs a startup sequence, closes the active valves and waits for any trigger inputs. (Start-up sequence can be customized to specific requirements if desired.)

### 3 // Four Unique Remote Triggers (A // Wireless Trigger Control Module)

The active controller system has 4 built-in wireless triggers. Each of the 4, when activated by the wireless RF transmitter (or wired trigger), triggers a program to open or close the muffler valves.

#### #1 Trigger // RF Transmitter > Close Valves

When wireless transmitter #1 is triggered by a momentary switch(es), the controller runs program #1 which closes the valves (can be customized).

#### #2 Trigger // RF Transmitter > Open Valves

When wireless transmitter #2 is triggered by a momentary switch(es), the controller runs program #2 which opens the valves (can be customized).

#### #3 Trigger // RF Transmitter > Open/Close on Signal

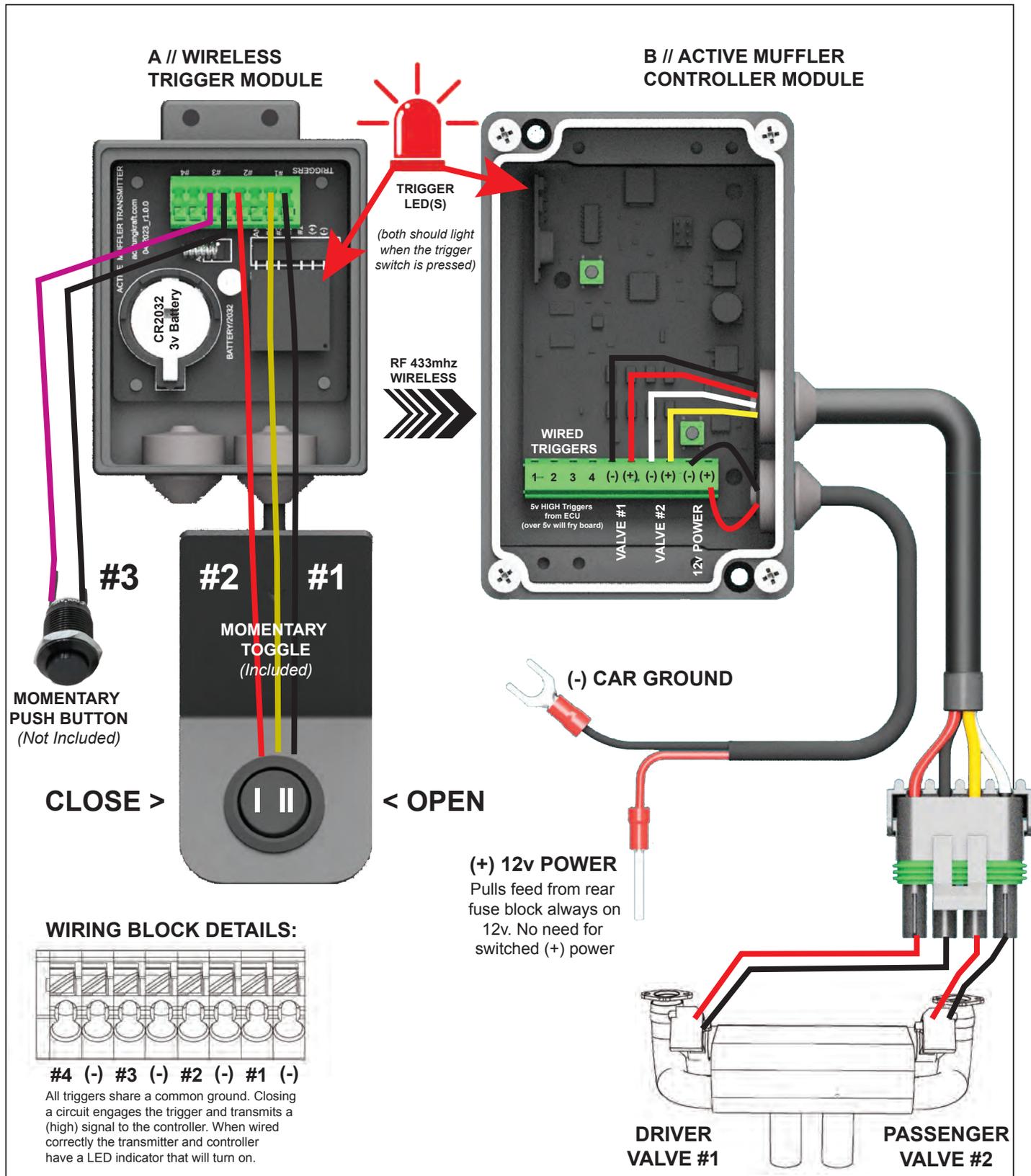
When wireless transmitter #3 is triggered by a momentary push button switch, the controller runs program #3 which alternates between open/closed for each press (can be customized).

#### #4 Trigger // RF Transmitter > Custom Trigger for Customer

When wireless transmitter #4 is triggered by a momentary switch, the controller runs program #4. This can be programmed for custom needs or future expansion.

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## Wireless Control System Wiring Instructions



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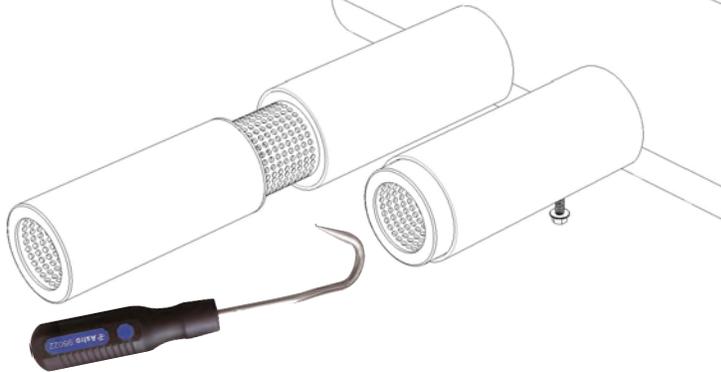
## Silencer Insert Install/Removal

### SILENCERS INSTALLED

*Touring/Sport Modes*

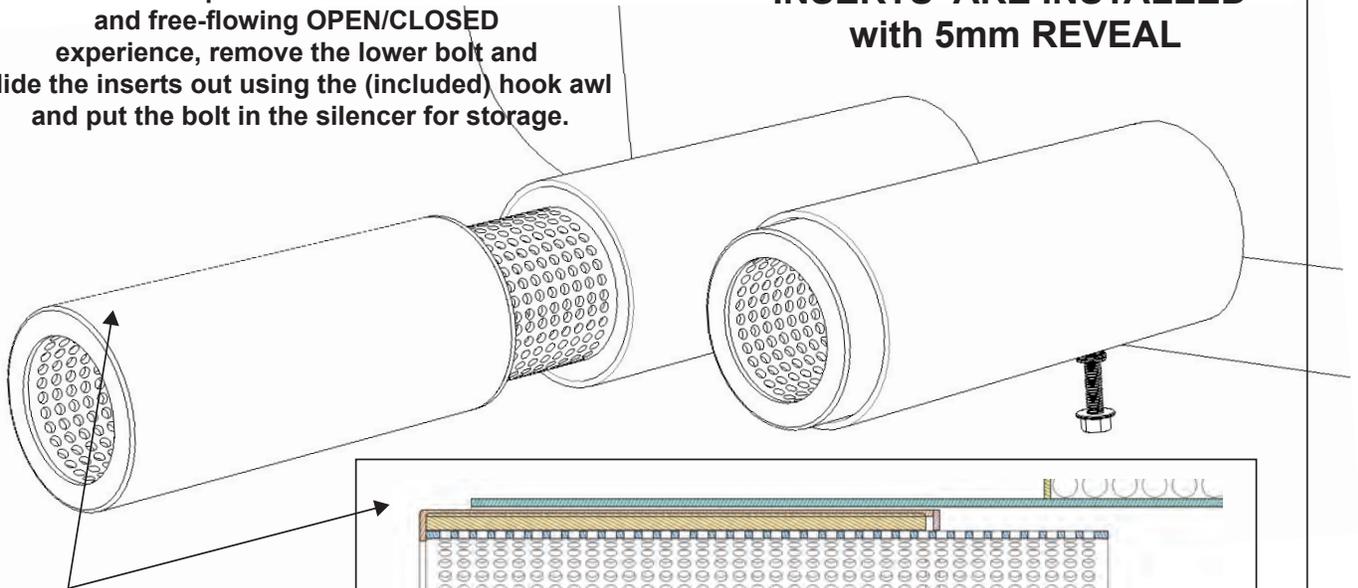
### NO SILENCERS

*Rebel/Rowdy Modes*



ALL GT/k mufflers come with silencer tips installed. For a louder and free-flowing OPEN/CLOSED experience, remove the lower bolt and slide the inserts out using the (included) hook awl and put the bolt in the silencer for storage.

**INSERTS ARE INSTALLED with 5mm REVEAL**



To install align dot on the top of the silencer when sliding it into the muffler. Use the (included) angle hook awl to align the hole in the muffler with the silencer nut; hand tighten the bolt in the hole and then final tighten. (ensure the Nordlock washer is on the bolt)

