



86/BRZ
Cat-Back System
Installation Guide





XFORCE RECOMMENDS AN AUTHORISED PROFESSIONAL TO INSTALL ALL PRODUCTS

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<https://xforce.com.au/warranty/>



Parts List

- **ESBRZ1VKCS (2.5" VAREX Cat-Back System)**
 - ES-BRZ-01-C1 – Centre Section w/ Resonator
 - ES-BRZ-01-C2B – Connecting Pipe
 - ES-BRZ-VMKR – Varex Muffler w/ VAREX Motor attached
 - ES-BRZ-TP – 2x Tailpipes
 - TS-AW45SJ-63 – 2x Polished Tips
 - TS-AW45SJ-63(Blue) – 2x "Burnt" Blue Tips
 - 2x Slip-Joint Clamps
 - 2x Gaskets
 - 6x Big Bolts & Nuts
 - 2x Small Bolts
 - VAREX Wiring & Control Box
- **ESBRZ2VKCS (3" VAREX Cat-Back System)**
 - ES-BRZ-02-C1 – Centre Section w/ Resonator
 - ES-BRZ-02-C2B – Connecting Pipe
 - ES-BRZ-VMKR – Varex Muffler w/ VAREX Motor attached
 - ES-BRZ-TP – 2x Tailpipes
 - TS-AW45SJ-63 – 2x Polished Tips
 - TS-AW45SJ-63(Blue) – 2x "Burnt" Blue Tips
 - 2x Slip-Joint Clamps
 - 2x Gaskets
 - 6x Big Bolts & Nuts
 - 2x Small Bolts
 - VAREX Wiring & Control Box

Tools & Equipment Required

1. **Spanners & Sockets**
 - 10mm, 12mm, 14mm & 15mm
2. **3/8" Ratchet**
3. **½" Tension Wrench w/ 15 mm Deep Socket**
 - Set to 80 Foot Pounds
4. **Extension Bar**
5. **Pry Bar or Exhaust Hanger Removal Pliers**
6. **Can of Spray Lubricant**
7. **O2 Sensor Safe Sealant**
8. **Rags for Excess Sealant**
9. **Safety Glasses or Goggles**
10. **Protective Gloves**
11. **Safety Boots**



Important Step:

If installing XFORCE Cat Back System as well as our XFORCE Cat Pipe (See instruction manual on our website), we would recommend installing cat-back system loosely then installing the Cat-Pipe before tightening everything from rear to the front of the vehicle.

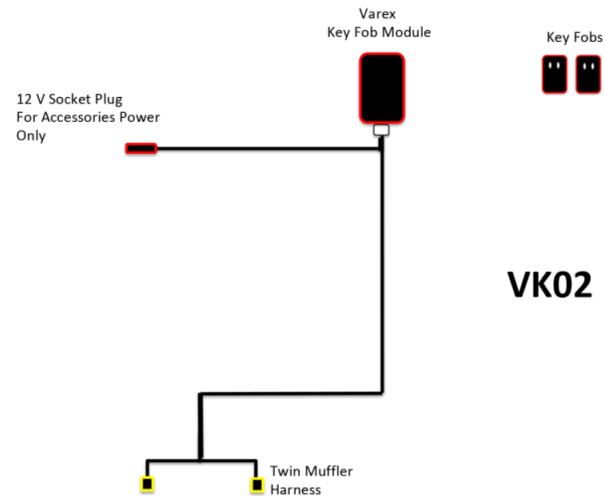


Go to page 14 for installation notes.



Important Step (Varex Only!):

Loosely run the wiring for the control box from inside the vehicle to the outside through an open door. Plug the wiring harness into the 12v socket & then into the mufflers and control box, power on the vehicle to test system. Check the operation of all electronics and Varex muffler valve before installation.



Go to page 11 for Varex installation instruction.

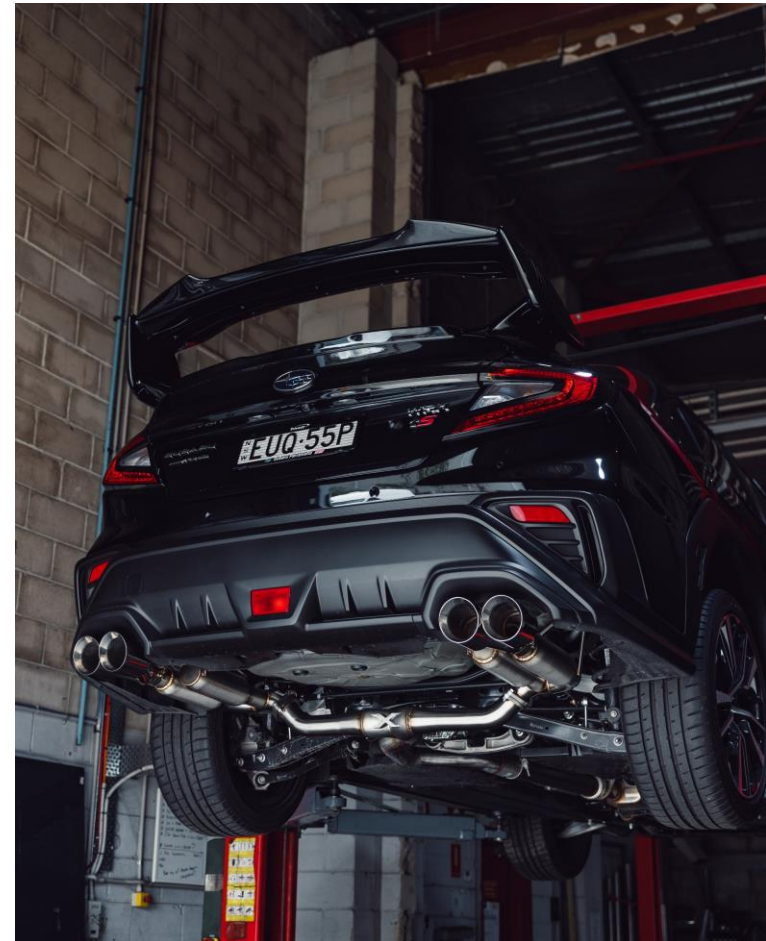


Step 1:

XFORCE Recommends using a hoist for installation of our systems.

Raise vehicle on a 2/4 post hoist making sure the hoist arms are in the correct lifting positions (as per the owner's manual) and that yourself or any other persons are underneath the vehicle while the hoist is in motion.

Once the vehicle is at a workable height, engage the hoist safety locks!





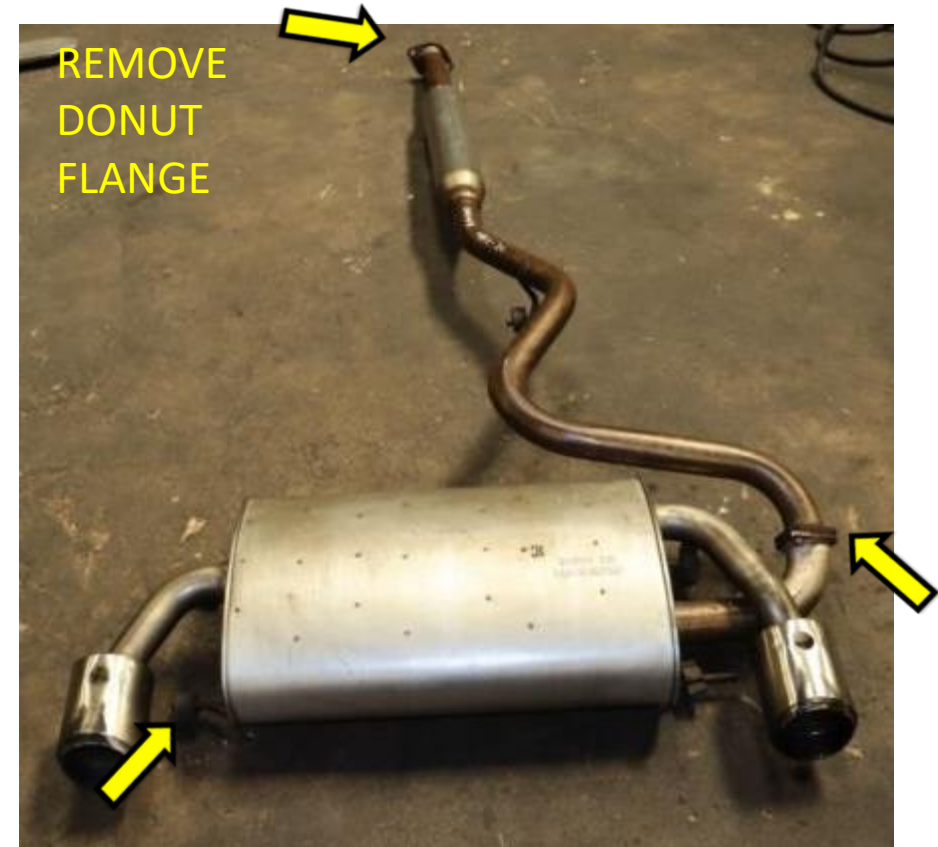
Step 2:

Lubricate the bolts on the ball flare flange behind the cat & the flange in front of the Muffler. Loosen bolts but don't remove.

Remove the front of the center pipe first then remove section from muffler.

Use a flat-blade screwdriver to remove the donut gasket on the back of the Cat Flange (if installed).

Now remove factory muffler from the hangers using a prybar or muffler hanger removal pliers.



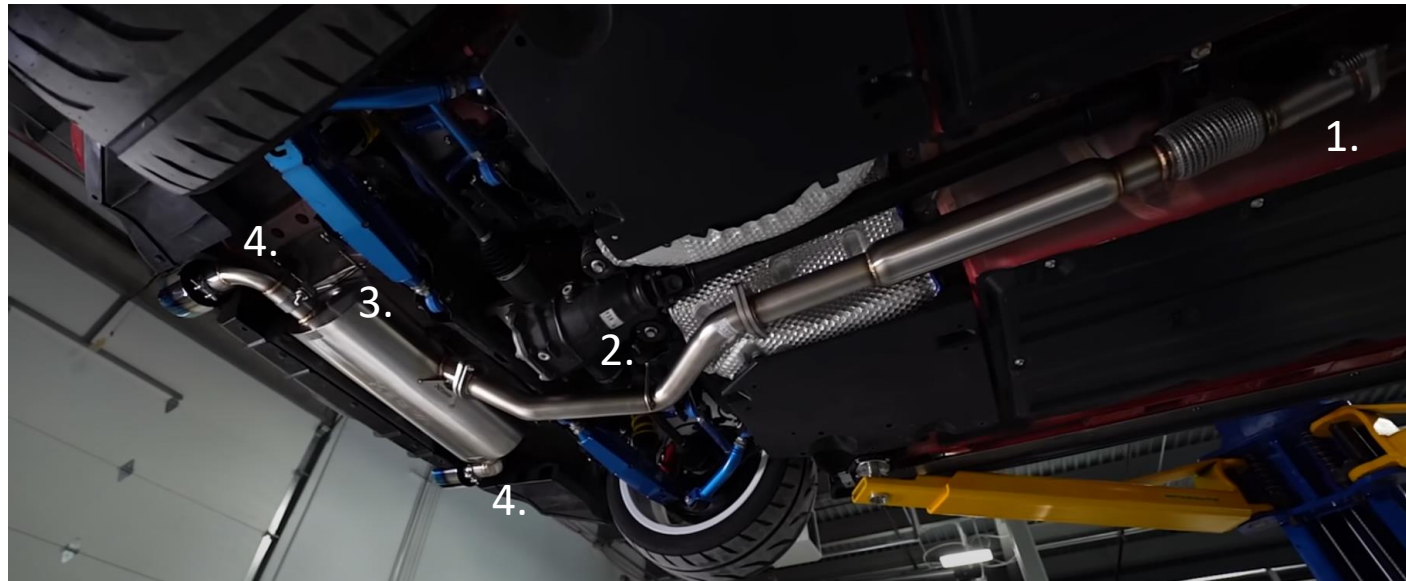


Step 3:

In the following order, leave firm but DO NOT TIGHTEN!

1. Fit Centre Section (ES-BRZ-01/02-C1) to Catalytic Converter Flange (flex pipe facing front of vehicle) using a 2-bolt gasket provided (Smaller bolts and nuts have been supplied if this is needed to fit your factory cat-pipe flange).
2. Fit connecting pipe (ES-BRZ-01/02-C2B) to Centre Section and slide hanger onto factory rubber using a 2-bolt gasket provided.
3. Fit the Muffler (ES-BRZ-VMKR) to the factory/OEM rubber hangers on the vehicle then bolt muffler to connecting pipe using a 2-bolt gasket provided.
4. Fit a slip-joint clamp to each tailpipe (ES-BRZ-TP). Use O2 sensor safe sealant on each inlet of the muffler then slide the tailpipes on the muffler.

XFORCE recommends using O2 Safe Sealant on all gaskets & slip on surfaces!





Step 4:

Fit XFORCE Tips to the mufflers.

Check positioning of exhaust & make sure it doesn't hit anywhere that may cause damage or rattle against any part of the vehicle. Also, check tip alignment with the bumper.

Once you are satisfied with positioning, tighten from the rear mufflers forward making sure the alignment is consistent. Slip Joint Clamp needs to be tightened to 80 Foot Pounds.

Remove any hoist stands if used.

Start your car, check for any leaks & enjoy your new XFORCE Performance Exhaust!





Step 5:

Drive vehicle for 10-15mins, testing the Varex valve control (if installed). Return to step 4, retention all nut & bolts and enjoy the driving experience your new XForce System provides.



GO TO PAGE 11 for Varex Installation



NOTES:

- When you first start your vehicle after install of your new XFORCE Performance Exhaust System, they may be some smoke or fumes coming from the system. This is a protective oil-based coating used in the manufacturing of the system. This is not a problem & will disappear within a very short period after the exhaust has reached normal operating temperature.
- When trying to install gaskets with flanges, install one bolt on the flange & hang the gasket on the bolt then feed the other part on.
- When placing slip on clamps into the system, make sure you can access the 14mm nuts to tighten the clamp.
- Muffler hangers do have some adjustment when installing, make sure you are happy with tip placement before tightening bolts up.
 - Use lubricant to make removing & installing rubber on the hangers easier.
 - **Do not use power tools to tighten slip-joint clamps!!**





86/BRZ
Varex Control Module
Installation Guide



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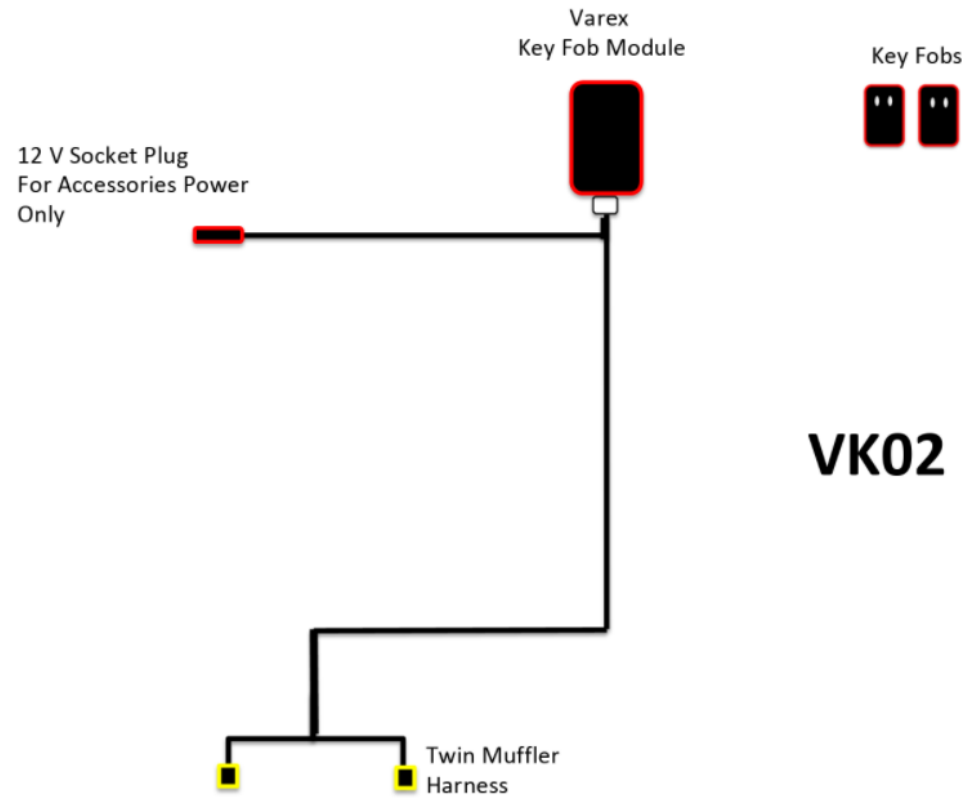
What's in the VAREX box

- 1x Varex Control Module
- 1x Wiring Harness (VK01/VK02)
 - 2x Key Fobs





Varex Wiring Diagram





Step 1:

Remove spare tire from boot area to allow access to rubber grommet in the floor.

Once located, make a small hole in the grommet big enough to feed the black 2-pin plug through.

Now feed the wiring harness from inside the car to the underside of the car and connect the muffler.

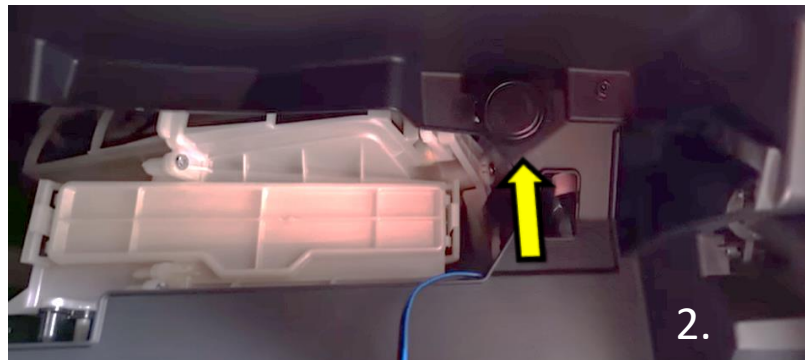




Step 2:

Feed the white 4-pin & 12v socket from the rear of the car to the front of the car. Making sure to tuck away wiring under the back seat or under any plastic trim (1) till you find a suitable place to store the control box.

We would recommend storing the control box in the front glove box as there is a 12v power source behind the glove box for the VAREX System (2). This can be accessed by pushing the 2 plastic sides together (3), this should detach gaining access to the power source.





Step 3:

Plug the white 4-pin plug into the control box.

Now feed the 12v plug to your preferred 12v socket and plug in.

Turn on the car & test the system using the remote (you should see an LED flash as you press the remote buttons).

Button A will close the valve & Button B will open the Varex.

Fit trim back to vehicle.

Now enjoy the volume control on your new Varex System!





NOTES:

- **HARD WIRING:** We do offer a Hard Wiring Kit for your control box (VK16) which is recommended if you do decide to Hardwire your control box. By using this kit, this may bypass the Canbus power restrictor and could result in the control box failing (due to constant power supply) & could also damage electronics in your vehicle.
- XFORCE recommends using the 12v socket provided with your standard wiring kit as this will not affect any vehicle electronics.

