



23-Current Civic Type-R Formula Exhaust System

Use this guide to help you install the Hybrid Racing Formula Exhaust system on the 2023-current Civic Type-R.

Written By: Hybrid Racing

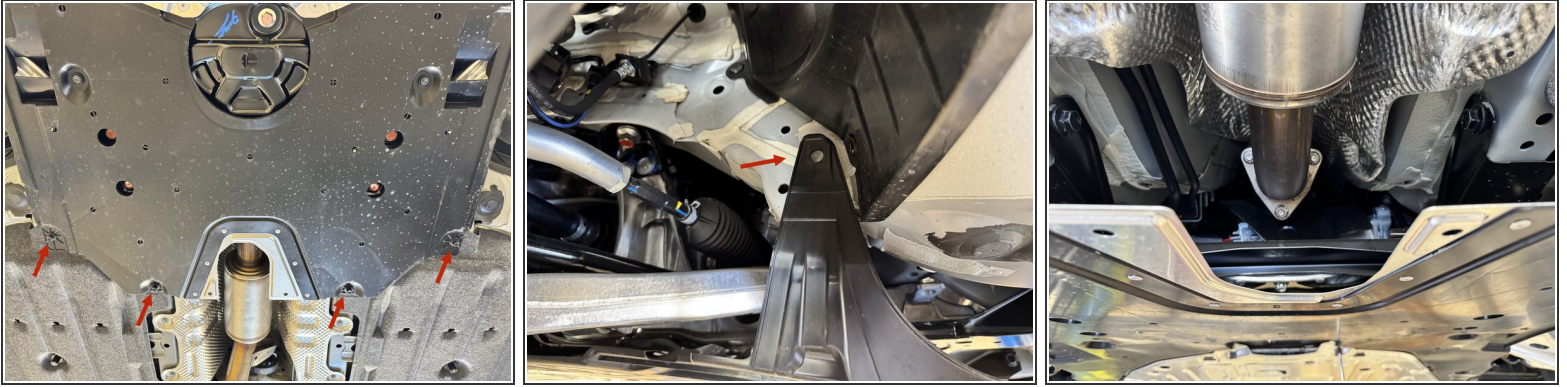




PARTS:

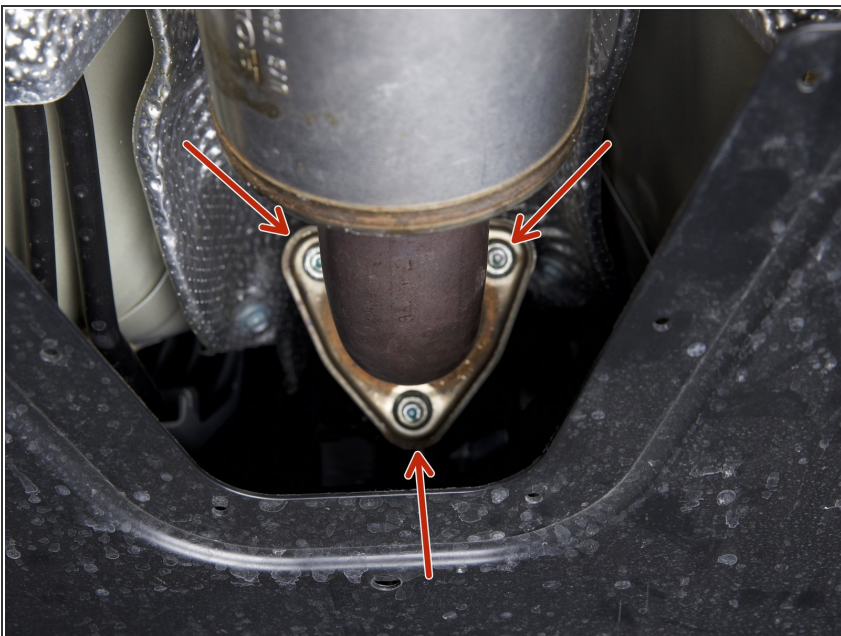
- [HYB-EGA-00-05](#) (3)
- [HYB-EGA-00-07](#) (1)
- [HYB-EGA-00-09](#) (1)

Step 1 — Remove engine under panel



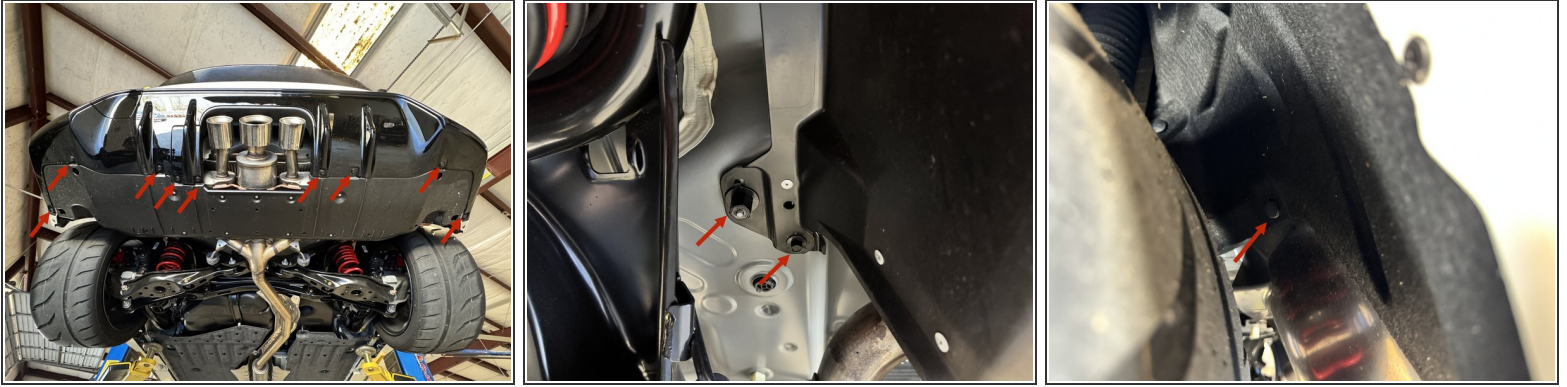
- Begin your installation by unbolting the rear portion of the underbody tray. You do not need to remove the entire plastic tray, but you must remove enough bolts so the panel can be pulled out of the way.
- Using a panel removal tool, remove the clips that hold the inner wheel well panel in place. There is one clip in each wheel well.
- Once you have removed all the bolts and clips, you should be able to pull the undertray downward to gain access to the exhaust system front pipe.

Step 2 — Unbolt Exhaust



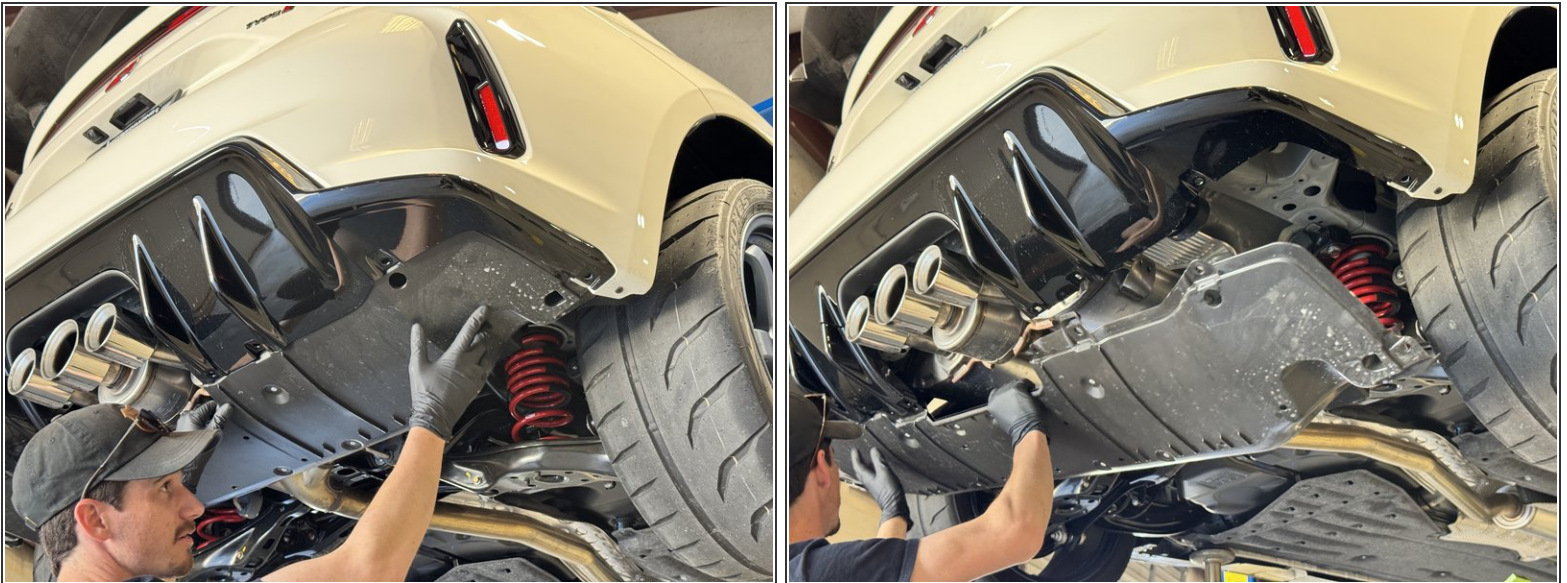
- Remove the exhaust from the front pipe.

Step 3 — Remove Rear Lower Bumper



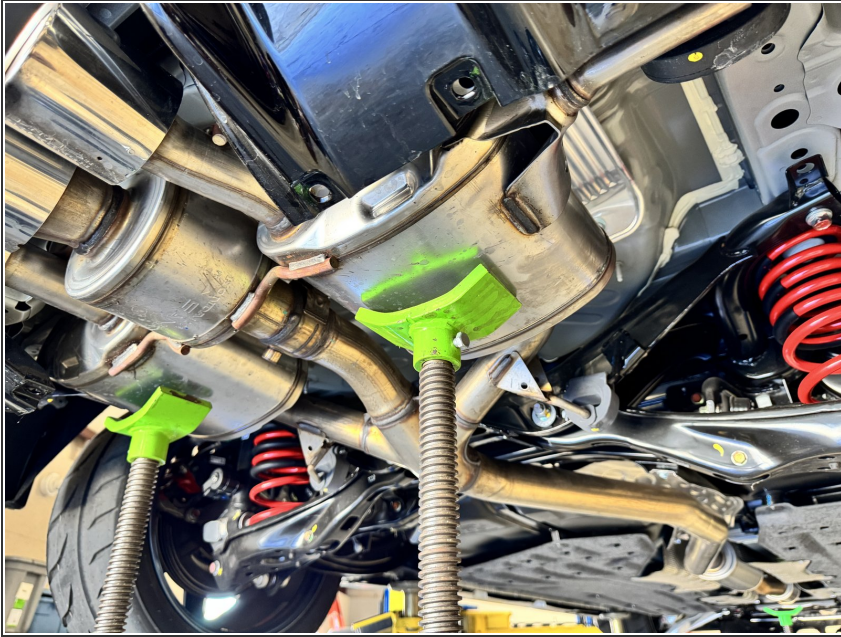
- At the rear of the car, remove the plastic clips that hold the lower bumper valence in place.
- There are clips in the wheel wells as well as bolts on the inside section near the muffler. Remove all.

Step 4 — Remove Lower Bumper Panel



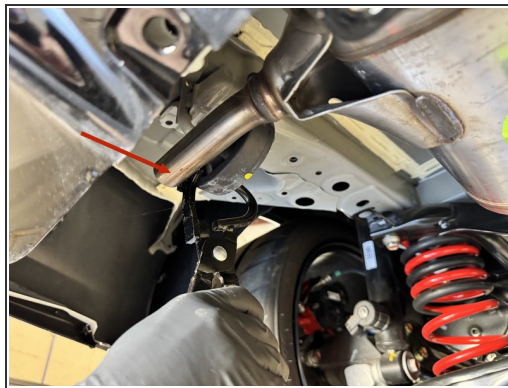
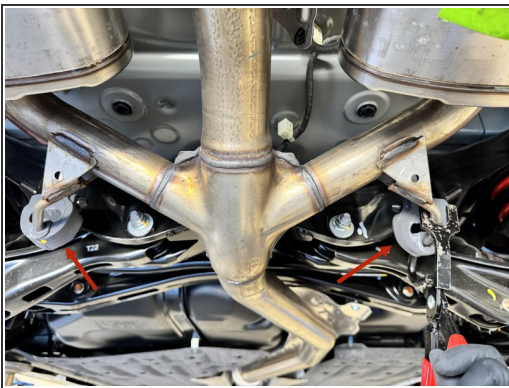
- Pull the center section downward while pushing the side upward. The panel should bow which allows you to slide one end out.
- Then slide the other side out and set the panel aside. You should not have full access to the muffler and hangers.

Step 5 — Support Exhaust



- Use a jack, pole, wooden blocks, or a friend to support the exhaust system.
- ⚠ The next steps will require you to remove the exhaust hangers so be sure you are prepared to hold the system up once they are removed.
- ℹ A second set of hands definitely helps.

Step 6 — Remove Rear Hangers



- There are four exhaust hangers on the rear section.
- Remove the exhaust from the rubber hangers. You can use a little spray lubricant and/or a removal tool to make the job easier.
- Be sure the weight is supported correctly.

Step 7 — Unplug Exhaust Valve Motor



- Once the system has dropped some, you can unplug the electronic valve motor.

Step 8 — Secure Wiring



- We recommend covering the end of the connector to prevent moisture or debris from getting into the terminals.
 - Push the OEM wiring connector for the stock valve up above the heat shield.
- ❗ DISREGARD THIS STEP IF YOU PLAN TO USE THE OEM VALVE MOTOR.

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Step 9 — Remove Exhaust System



- Disconnect the middle exhaust hanger.
- Pull downward to disconnect the exhaust and remove it from the car.

Step 10 — ** OEM Valve Motor Conversion



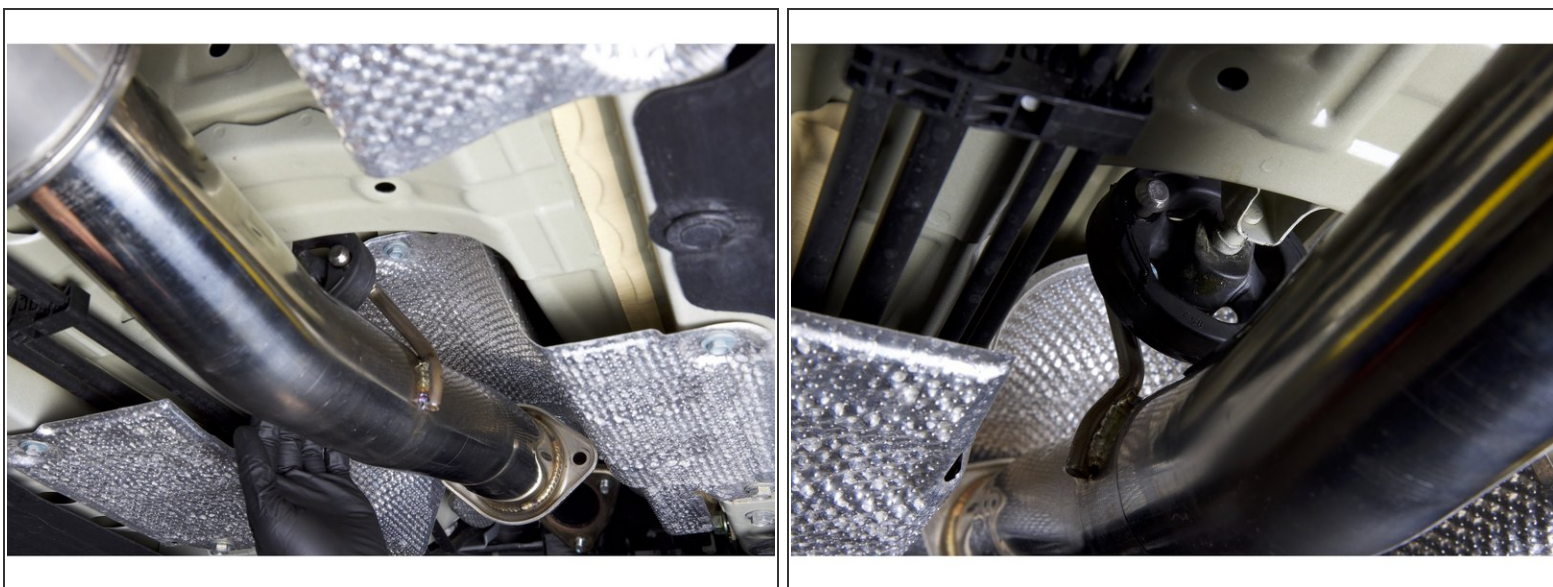
- If you do NOT want to use the stand alone valve motor and harness, you can use the supplied bracke to install the OEM Honda valve motor to the Hybrid Racing muffler.
 - Supplied in the kit will be the bracket, bolts, nuts and conversion spring.
 - Attach the adapter bracket to the HR muffler assembly using the supplied hardware. Pay attention to the orientation.
 - You must remove the OEM valve motor from your factory exhaust system and then bolt it to our conversion bracket.
- ⚠ Please note that you may need to plug the motor into the car before installing the motor completely as the clearance is very tight. You may not be able to install the valve motor until the HR muffler is bolted to the car.
- ⓘ If you plan to use this instead of the stand-alone bracket, SKIP Steps 11, 22, 26, 28-27.

Step 11 — Install HR EVC Wiring



- Pull down the factory wiring grommet and insert the HR exhaust valve wiring harness.
- No need to secure now, that will happen later, inside of the trunk.

Step 12 — Mid Section Install



- Begin by installing the mid-section of the HR exhaust. You can take this section and hang it from the center hanger.

Step 13 — Rear Hanger Brackets



- Locate and install the rear muffler brackets with the supplied hardware. Thread both sides together and be sure to keep them loose so the system can be adjusted once on the car.

Step 14 — Rear Hanger Install



- Using the OEM hangers, install the rear HR exhaust section.

Step 15 — B-Pipe to C-Pipe Connection



- Install the supplied ring gasket onto the rear section of the B-pipe (mid-pipe) already installed on the car.
- Make sure the gasket sits flush against the flange.

Step 16 — B-Pipe to C-Pipe Connection



- Use the supplied hardware and attach the pipes together. Finger tighten the bolts right now.

Step 17 — C-Pipe to Muffler Connection



- Like the previous step, install the ring gasket between the flanges and use the supplied hardware to bolt the exhaust pipes together.
- Do not fully tighten the system.

Step 18 — Front Pipe Adapter



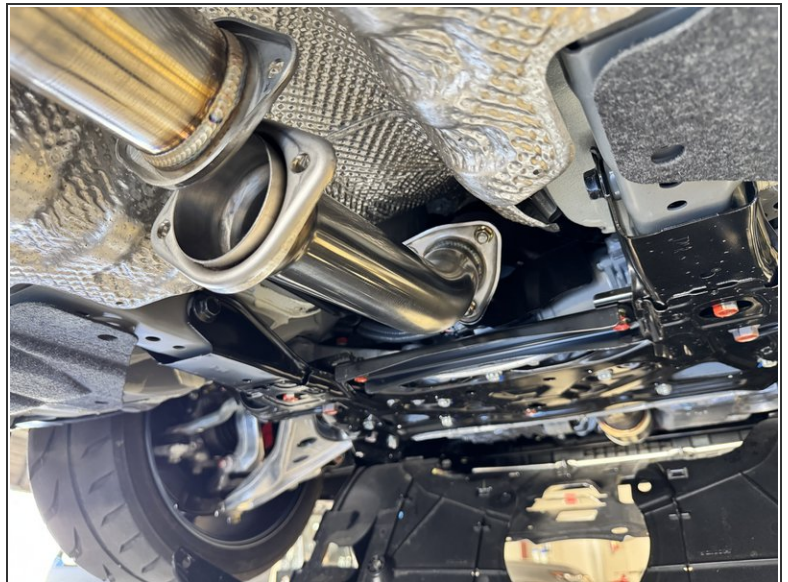
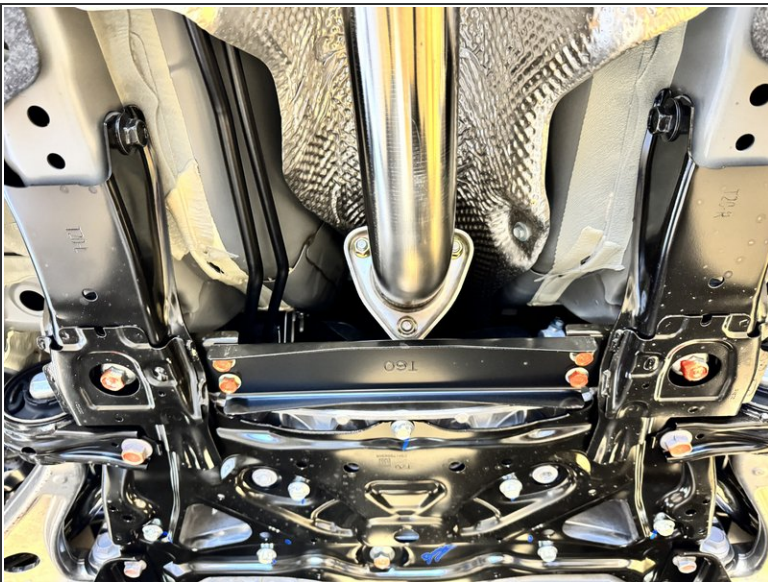
- The Hybrid Racing exhaust includes both the OEM downpipe and aftermarket front pipe connections.
- The larger 3 inch connection should be used with any aftermarket front pipe. This will not fit with the OEM front pipe.
- The OEM style connection has a smaller, stamped flange and uses an OEM style gasket. This will not fit the aftermarket front pipe.
- Choose the correct pipe for your application and install the gaskets.

Step 19 — Front Pipe Adapter Gasket



- On the other end of the connection pipe, install the correct ring gasket.

Step 20 — Install Front Pipe Adapter



- With both gaskets installed on the front pipe adapter, install it on the car. Be sure to keep the bolts loose for the time being.

Step 21 — Install Front Pipe Adapter



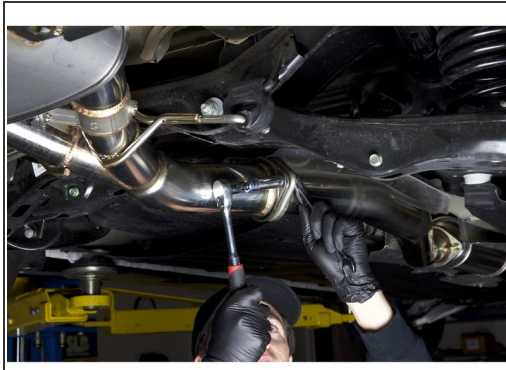
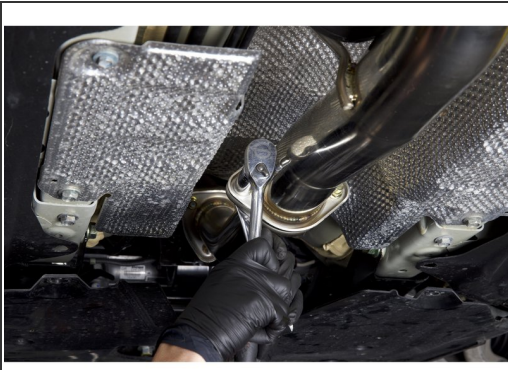
- Use the supplied hardware and install the front pipe adapter.

Step 22 — Connect Exhaust Valve



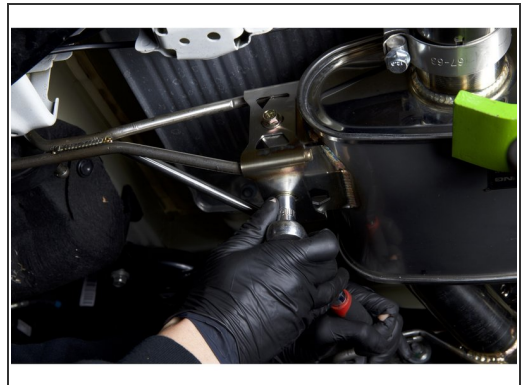
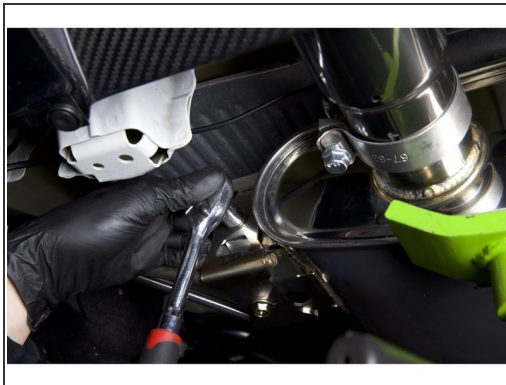
- Supplied with this system are two wiring harnesses, an electronic control box and two RF controllers.
- The harness with the black connector should be used to plug into the exhaust valve.
- Run the wiring above the heat shield, make sure nothing touches the exhaust pipes.

Step 23 — Tighten Front Section



- Tighten the exhaust system, starting at the forward most part.

Step 24 — Tighten Rear Section



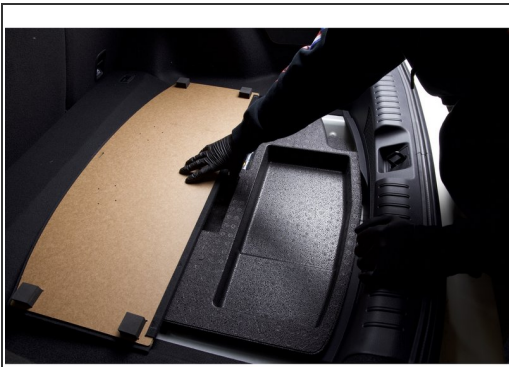
- Once everything is aligned, tighten the rear muffler hangers and the remaining pipe connections.

Step 25 — Tighten Exhaust Tips



- Once the hangers and pipes are tight, install the exhaust tips and align the clamps.

Step 26 — Electronics Installation



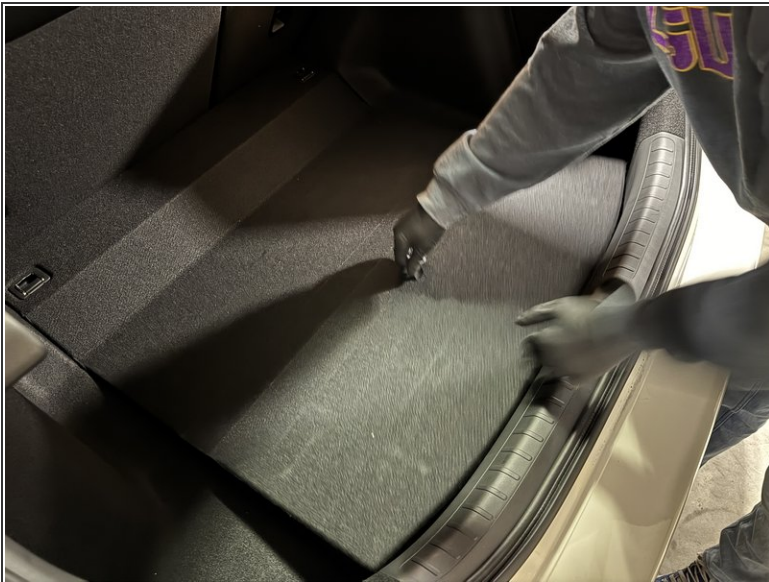
- Begin installing the electronic valve controller by lifting and removing the factory FL5 rear foam tray.

Step 27 — Reinstall the rear panel



- Once the exhaust is on and tight, you can reinstall the rear lower bumper panel.

Step 28 — Exhaust Valve Controller Wiring



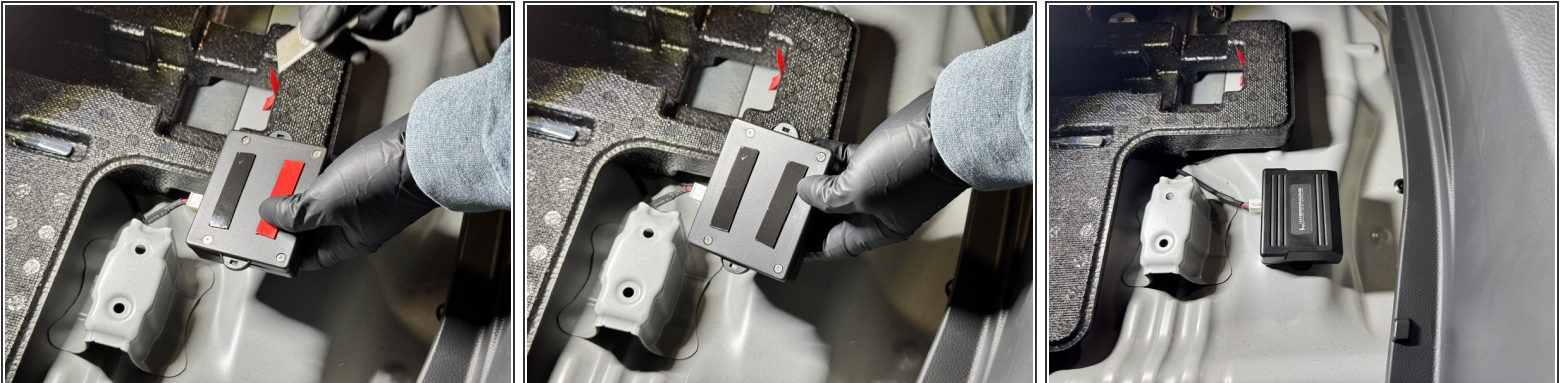
- Open the hatch, lift the rear tray and remove the rear well foam panel.

Step 29 — Exhaust Valve Harness



- Located the factory floor grommet that was removed and cut a small slit into the edge.
- This will allow the EVC wiring to slide through while the grommet is sealed back in place.
- ① Pull all but a little slack through the floor and prepare to mount the controller box.

Step 30 — Valve Controller



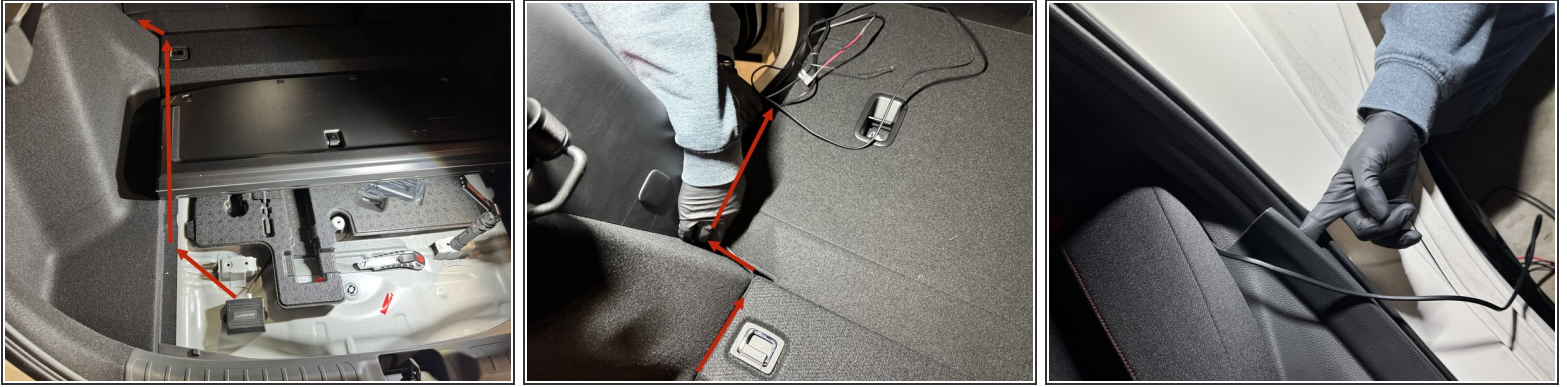
- Connect both wiring harnesses to the controller box.
- On the back, remove the tape backing and install the controller under the trunk latch.
- Be sure this position does not prevent the panel from going back in place.

Step 31 — Secure Wiring



- Secure the wiring harness that will travel to the front of the cabin. Use the supplied zip ties to tidy up the wiring.
- Feed the power harness through the rear trim panel on the driver side.
- ① For RHD cars, this should route in the opposite direction.

Step 32 — Power Harness Install



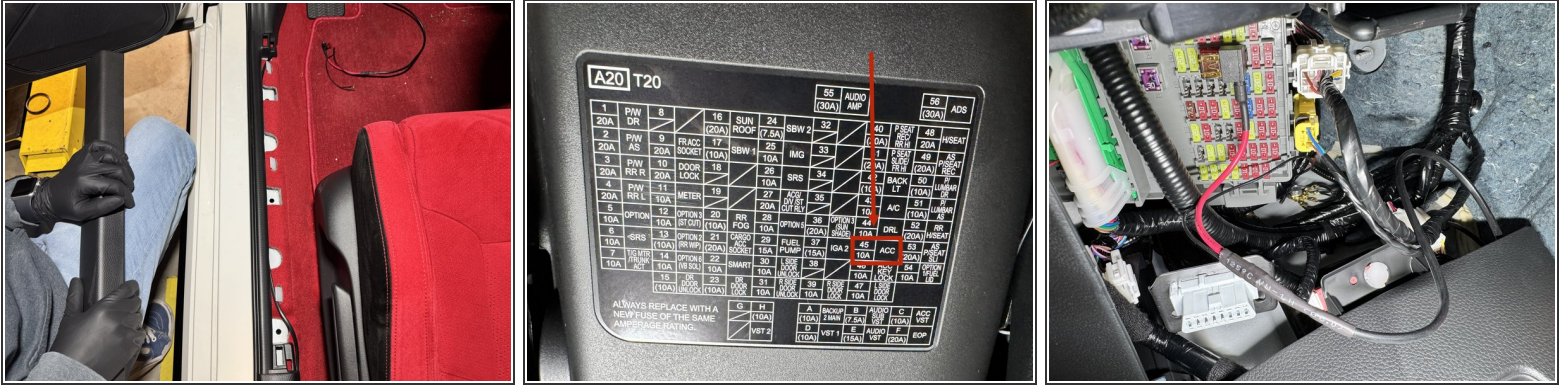
- Fold the rear seat down to give you access to the panels.
- You are free to route the wiring however you like. However the next few steps are how we suggest doing it.
- Feed the wire though the rear panel and then under the corner of the rear seat.
- Make sure you run it under the seat belt. The wire can slip down by the base of the seat and slide under the plastic panel.

Step 33 — Power Harness Install



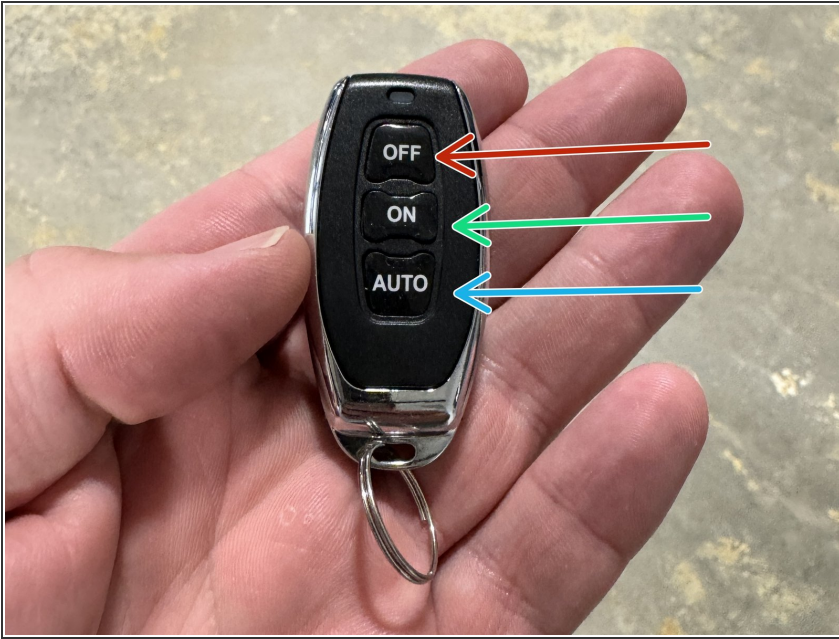
- Once the harness slides under the rear sill panel, pull it through and run it along the driver side.

Step 34 — Power Harness Install



- Route the wiring harness along the driver sill, under the kick panel and connect it to the under dash fuse pane.
- Remove Fuse 45 - ACC and install the line and fused link.
- There is a ground junction on the chassis behind the fuse box, loosen the bolt and install the ground lead from the EVC harness.

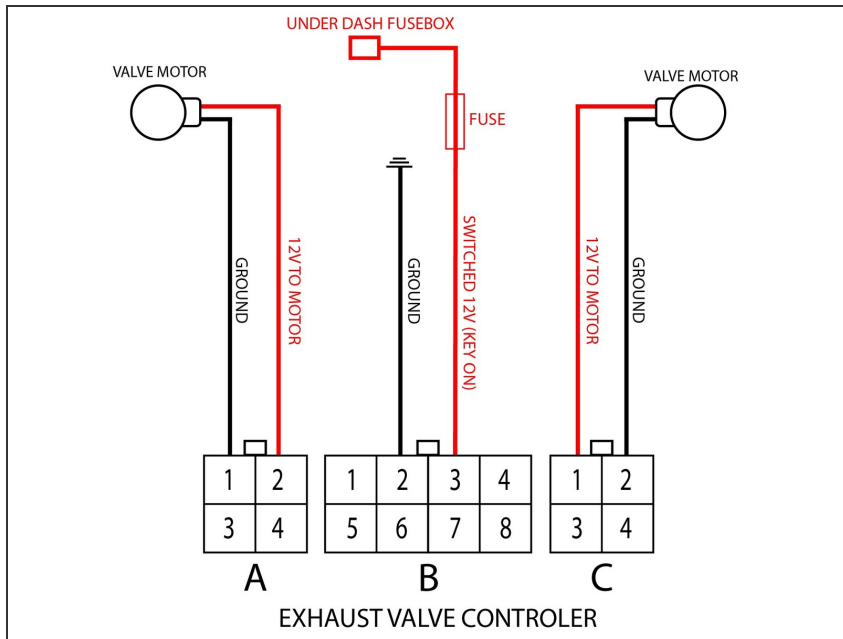
Step 35 — Test Valve System



- On the key FOB, there are three buttons.
- Press OFF to fully close valve.
- Press ON to fully open valve.
- Press AUTO to step the valve open. You must press OFF first to close it. Pressing this button will allow the valve the step open slightly. You can continue to press AUTO to increase the step. Once you have pressed it enough times, the valve will be fully open. Press OFF to reset the system.

- ⚠ Be sure to test the valve operation before starting the vehicle. The EVC box will beep when the buttons are pressed. You should also hear the valve open and close.
- ⚠ IF YOU DO NOT HEAR A BEEP AND THE VALVE MOTOR DOES NOT REACT TO THE FOB, PLEASE VIEW STEP 36.

Step 36 — EVC Box Wiring Diagram



i Our EVC module can be expanded to control two valves simultaneously. Connectors A and C are the outputs for the valve motor. Either A or C can power your exhaust valve motor.

- The valve motor must have a ground and power signal, which are supplied by the EVC box.
- Connector B in the center of the EVC box is connected to the chassis wiring. The chassis wiring will supply the EVC box with power and ground to control the valve motor.
- B2 - should connect to a chassis ground, per the eyelet on our harness.
- B3 - should connect to the underdash fuse box. This must be a key on 12v source. There is an inline fuse for protection.

Step 37 — Pairing Key FOBs



⚠ Each key fob should already come pre-paired with your electronics box. In the event it is not, or you are using a replacement key fob, please follow these steps to pair.

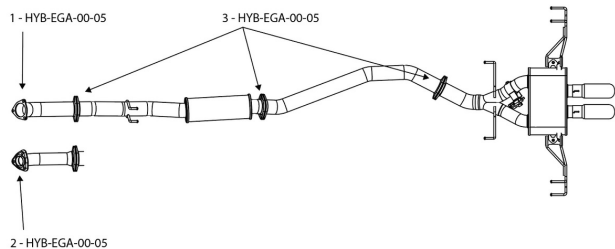
- On the side of the box, there is a small button on the inside. Find a small pick and press it. You should hear a beep and a green LED will light up behind the connectors.
 - Take your FOB and press ON. If it is paired successfully, you will hear a beep and the light will go off.
 - You can now control the valve with the newly paired key FOB.
- ✉ Please contact us with any questions if you have issues doing this.

Step 38 — System Check!



- Fire up the car and listen for any exhaust leaks. Test the remote function to ensure the valve opens and closes.
 - Go for a drive! You're done!
- ⚠ If you are using the OEM valve motor with the conversion bracket, make sure it is plugged in and works as normal. The wiring and valve motor **SHOULD NOT TOUCH** the muffler. If it does, secure it out of the way or reposition the bracket and motor.

Step 39 — Exhaust Gasket Replacement Part Numbers



- 1- **HYB-EGA-00-09** - [Hybrid Racing Formula Exhaust Replacement 3" 3 Bolt Gasket](#)
- 2- **HYB-EGA-00-07** - [Hybrid Racing Formula Exhaust Replacement 2.15" Ring Gasket](#)
- 3- **HYB-EGA-00-05** - [Hybrid Racing Formula Exhaust Replacement 3" Ring Gasket](#)