



BNR HPRV INSTALLATION GUIDE

This product fits the 2016.5+ Gen 2 Cruze, Encore with LE2, Malibu 1.5T, and all LTG powered cars/SUVs. A custom tune is required to run this product. If you are a BNR Tune customer, make sure you request the free update by emailing datalogs@badnewsracing.net.

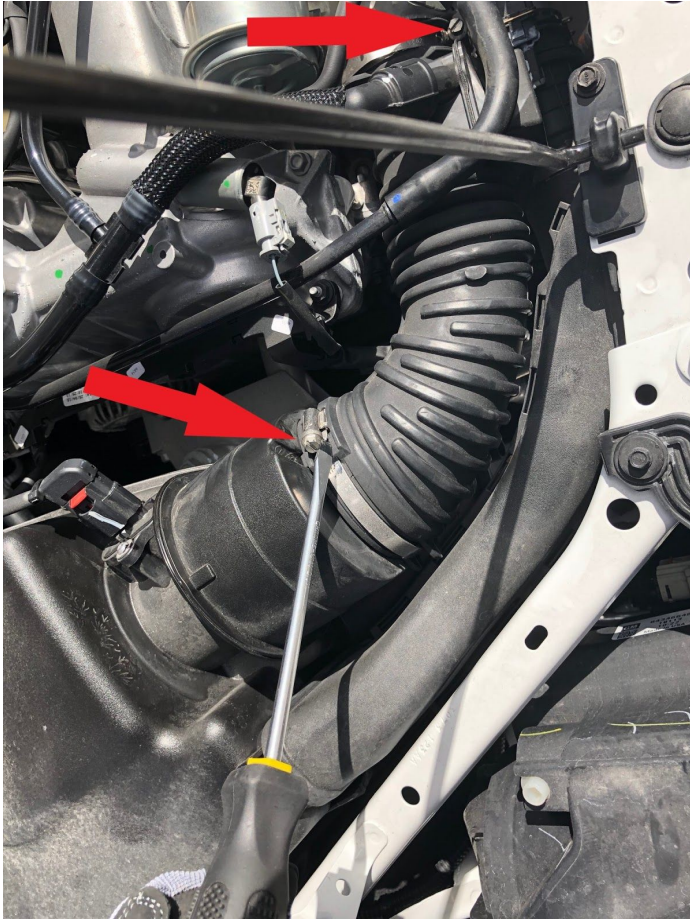
This guide will focus on the 2016.5+ Gen 2 Cruze 1.4T (LE2 engine)

1. Disconnect the negative battery terminal. The battery is located in the truck/hatch, under the spare tire. **DO NOT CLOSE THE HATCH/TRUNK AFTER YOU DO THIS** or you will not be able to open it again without crawling through the backseat to hook the battery back up.

2. Disconnect the PCV tube that goes to the corrugated intake tube. There are 2 tabs you can push in to get it to come up and off, be careful as they are delicate.



3. Using a flathead screwdriver, remove the clamps on the air intake tube.



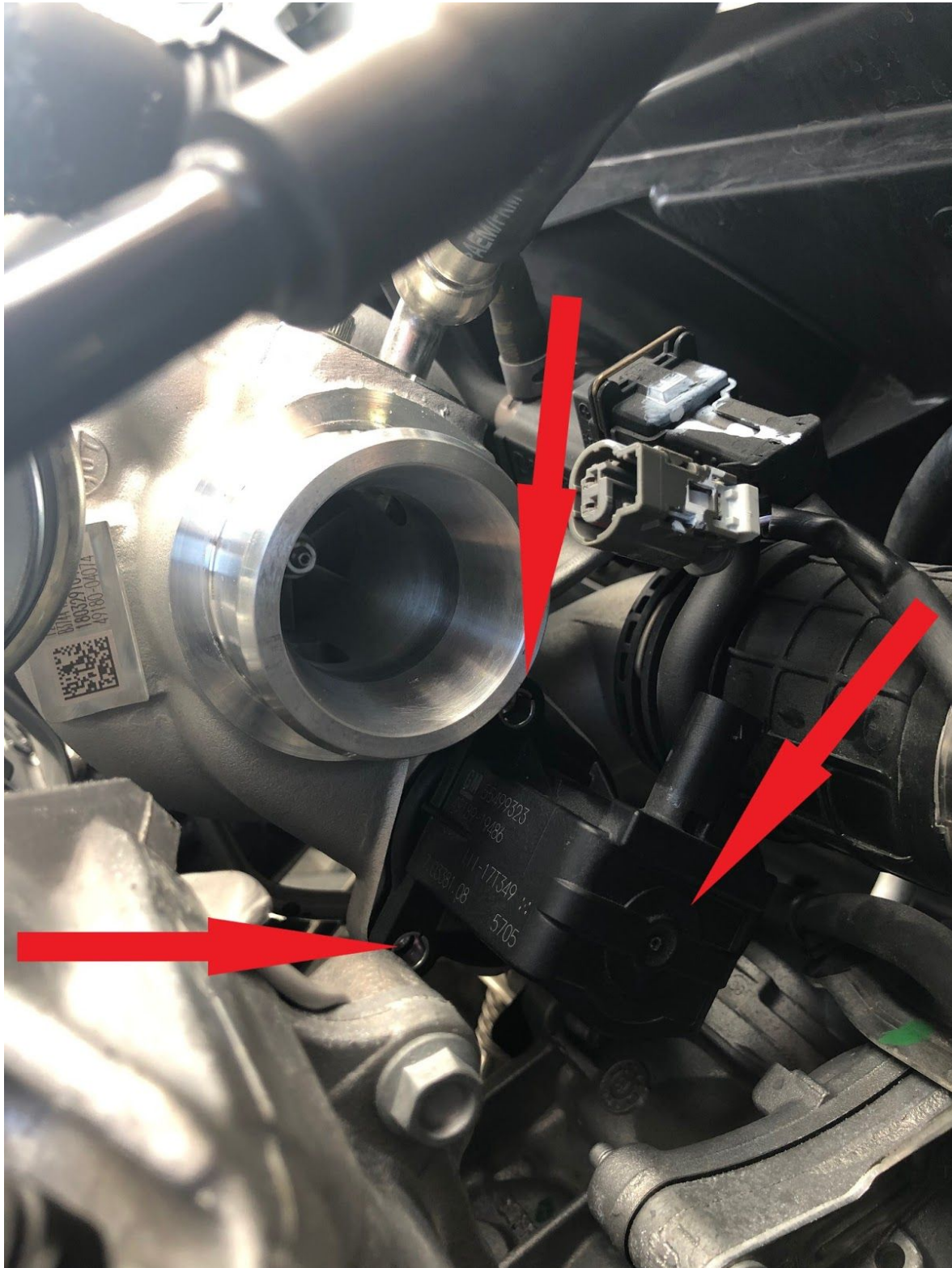
4. Remove the intake tube and set to the side.



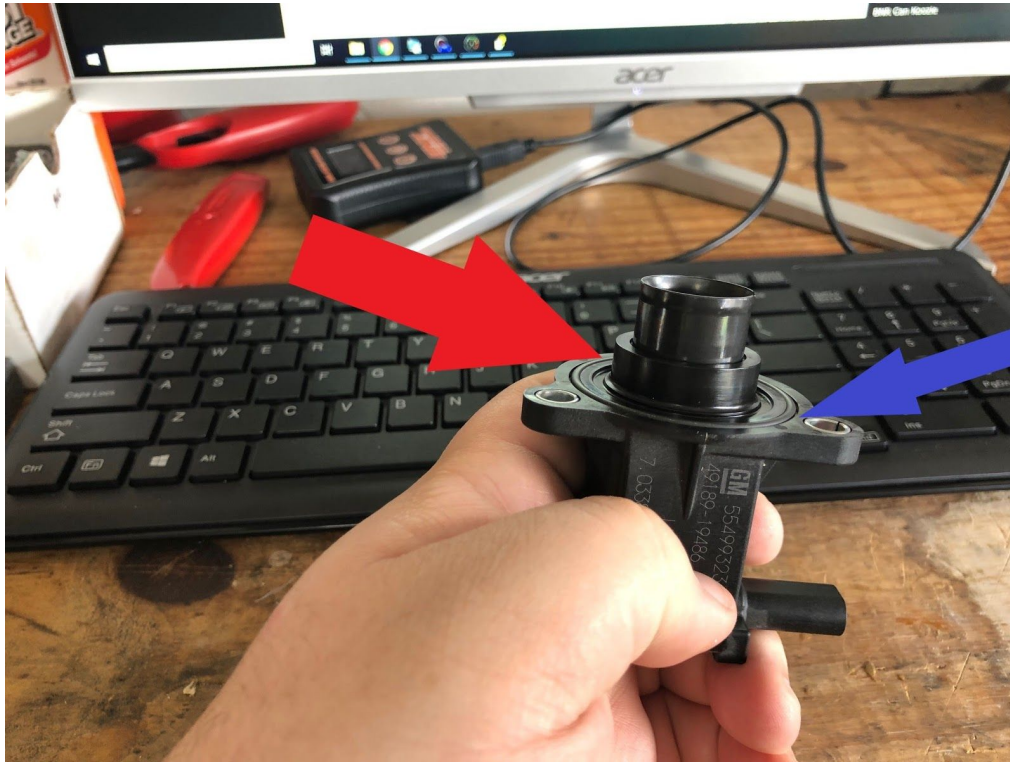
5. Locate the bypass valve. It is located just below the turbocharger inlet, where you just removed the intake hose. Disconnect the electrical connector on the bypass valve by using a small flat head screwdriver to lift up on the connector lock, then pull the connector off.



6. Remove the 3 machine screws/bolts holding the bypass valve to the turbo. They are H5 hex keys but a 3/16 allen key will also work. We've already removed them in the image, but you can see where they were. The 3rd screw is not visible, but the arrow is there to represent where it is on the other side of the valve.



7. Take the bypass valve inside or somewhere you have some work space and good lighting. Grab the plunger and pull it straight up to remove it from the valve and expose the spring. You may need to use a screwdriver around the edges, or grab it with a pair of pliers. It will come off as one assembly, the piston does not come out on it's own usually. Do not lose the spring, or the o-ring the blue arrow is pointing to. You will need both.



8. The bypass valve should now look like this-



9. Place the BNR High Performance Recirculating Valve on top of the spring, lining up the female notch to its male counterpart. Press down and the parts will seat together. Do not be alarmed if there is a very small amount of space between the two parts. When you install it on the engine, the screws will press them the rest of the way together. Test the piston and make sure it moves in and out freely, with a minimal amount of pressure. If it seems to be sticking, you can lubricate it with some automatic transmission fluid, or engine assembly lubricant, but they do come pre-lubricated.



10. Reassemble everything in the reverse order, using the longer machine screws provided in the box, and load the updated tune for the HPRV. Thanks for your purchase and we hope you enjoy this BNR product!