

Can-Am X3 Blow Off Valve Kit *RPM*

Kit Components:

1	Charge Tube
3	Clamps
1	Blow Off Valve
1	Silicone Vacuum Hose
1	Billet Nipple
1	25mm Aluminum Billet Plug



Notes:

- The BOV filter and pre filter are NOT required unless running in constant deep water and mud. The filter and pre filter act as a muffler and will make the BOV quieter.
- The orientation of the BOV should always be pointed downward.
- This Blow off valve is setup with the Medium spring. This is our recommended setting. The extra springs will simply change the tone the BOV makes.
- The billet plug can be used to plug the tube if ever to need to remove the BOV from the silicone hose
- The extra spring will simply change the tone the BOV makes.
- To change out springs simply unscrew the top of the valve.
- The heavier the spring the slower the valve can open to dump boost.
- When reinstalling the cap make sure the o-ring is seated, lubricated, and is sealed correctly.
- Tighten the exhausting tip of the valve before installation
- Q&A BOV videos and How to test
 - <https://www.youtube.com/watch?v=lxhLipiMUUQ>
 - <https://www.youtube.com/watch?v=5syyKt7r8yE>



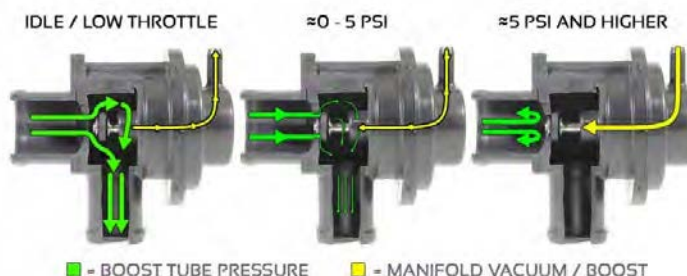
Tips & Frequent Questions:

The X3's should have some blow off during idle and cruising speeds. Trying to keep the valve closed with a extremely heavy spring builds heat in the charge tube from pushing air on the backside of the essentially closed throttle blade.

The purpose of the spring in a BOV is not to hold your BOV closed under boost pressure! All BOVs have a reference line coming into the top of the BOV from your post-throttle body intake manifold. Under high boost, the force holding the BOV closed is BOOST! The pressure coming through the reference line is equal to the pressure under the BOV piston. Therefore a VERY mild spring will hold it shut just fine under these conditions.

Your goal when selecting a BOV spring and adjusting the BOV should NOT be to select a spring based on your boost level. Using the very smallest amount of spring energy possible equates to allowing the BOV to snap open as rapidly as possible when pressure release is necessary.

For a loud sound in the cab point the BOV's exit towards the seats and downward. To quite it down point it towards the back and downward.



Install Instructions:

1. Remove rear bulkhead panel located between the two seat backs
2. Blow or clean away any dirt/sand/dust that is in the area around the charge tube. This will prevent any debris from entering the intake during install.
3. From inside the bulkhead panel, loosen the two hose clamps that attach the black rubber primary charge tube. You may need to access the upper clamp on the intercooler from the wheel well opening.
4. Install the new charge tube in place of stock charge tube. You May need to heat the charge tube making it more pliable for easier install. Secure using provided hose clamps.
5. Install the boost/vacuum port nipple into the plastic intake manifold located behind the muffler reusing the stock torx bolt.
6. Install the BOV and secure with hose clamp.
7. Connect the BOV to the port using the supplied hose.



Maintenance:

- To test and inspect your BOV we recommend watching our YouTube video.
See link:
 - <https://www.youtube.com/watch?v=IxlLipiMUUQ>
 - <https://www.youtube.com/watch?v=5syyKt7r8yE>
- Lay down a towel. to provide a soft, clean, & damage free surface.
- Unscrew the BOV cap.
- Using a 1/2" extension push the BOV piston upward and out.
- Using a pick, remove the inner o-rings and clean them. Clean the grooves the o-rings sit in.
- Remove the top o-ring and clean it and its sealing surfaces.
- Apply a grease, or anti-corrosion protectant to the piston, o-rings, and seating surfaces.
- Reinstall o-rings and carefully insert the piston. Be careful not to unseat the o-rings by " snagging " them as the piston goes down.
- With the top o-ring lubricated install the cap.
- To test we recommend the method covered in our video. Push up on the piston, clog the top port, and release. The piston should slam down. this ensures its holding vacuum.