

Thermal Bypass Valve

Installation Manual v1.1:

PN: 310-005-2464

**68RFE/AS69RC 2019+ Thermal Bypass Valve
with Billet Filter Coupler**



Please read all instructions before installation.

Thank you for purchasing the ATS Thermal Bypass Valve.

BILL OF MATERIALS:

1. Cooler Bypass Block, Dodge 2019+ 68RFE, Gold Anodized (Qty: 1)
2. Plate Base, Dodge 2019+ 68RFE (Qty: 1)
3. ATS 68RFE Transmission Filter Coupler, Billet Aluminum (Qty: 1)
4. Thermal Bypass Valve O-Ring (Qty: 2)

INSTRUCTIONS:

1. Locate factory transmission oil cooler bypass valve assembly on the passenger side of transmission. There will be a small amount of fluid loss when removing the transmission cooler lines from the block so it is recommended to place a suitable drain pan underneath the vehicle.
2. Using a 1" or adjustable wrench hold factory block while using a 20mm wrench to loosen and remove the cooler line nut fittings holding the lines from the transmission into the factory block.
3. Using a 10mm wrench or socket remove the M8 bolt that is holding the retaining plate on the front side of the factory block and remove block from lines.
4. Remove factory O-Rings from cooler lines coming from the transmission and install new supplied O-Rings.
5. Lightly lubricate newly installed O-Rings with clean transmission fluid.
6. Thread cooler line nuts into ATS Thermal Bypass Block and using a 20mm wrench and a 1" wrench or adjustable wrench to hold Thermal Bypass Block tighten nuts to 20 ft. lbs.
7. Re-using factory sealing washers insert cooler lines going to cooler into Thermal Bypass Block and then install billet retaining plate over lines and install M8 bolt using a 10mm wrench or socket and torque bolt to 13 ft. lbs.
8. Start the vehicle and inspect for any immediate leaks at the Thermal Bypass Block. Check transmission fluid and add any fluid needed due to loss from removal of cooler lines.
9. Drive vehicle to get transmission fluid to operating temperature and re-inspect for any signs of leaks at Thermal Bypass Block and re-check that transmission fluid is at correct level.

BILLET FILTER COUPLER INSTRUCTIONS (ONLY FOR 68RFE TRANSMISSIONS):

NOTE:



It is recommended to service transmission at the same time of installing the Billet Filter Coupler.

It is recommended to use a fluid evacuator to pull transmission fluid from the factory pan through the dipstick tube. If fluid evacuator is not available and vehicle still has a factory transmission pan installed the pan can be slowly lowered to allow fluid to drain from pan into a drain pan under vehicle.

1. Remove 8mm bolts holding the pan to the rear and sides of the transmission.
2. Using a scraper or similar to slowly separate the pan from transmission and allow fluid to drain into the drain pan.
3. Remove remaining 8mm bolts in the front rail or the transmission pan and remove the pan from the vehicle.
4. Using a filter wrench, remove the screw in the transmission filter.
5. If only installing Billet Filter Coupler remove factory plastic coupler from screw in filter using a ½” Allen key or socket and install the Billet Filter Coupler into filter and reinstall filter into transmission and tighten to 84 in. lbs. and skip to step 10
If installing a new screw in filter remove plastic filter coupler from filter and install the Billet Filter Coupler into new filter using a ½” Allen key or socket and install new filter into transmission and tighten to 84 in. lbs.
6. Remove T25 Bolt retaining primary transmission filter to valve body and pull transmission filter from pump inlet.
7. Install new primary transmission filter into pump inlet and ensure it is fully seated and then install T25 bolt back into filter and torque to 40 in. lbs.
8. If a factory transmission pan was removed; using a razor blade remove excess silicone from the transmission case and ensure the sealing surface is clean and dry.
9. If you are installing a deep transmission pan at this time follow instructions included with the pan. If installing the factory transmission pan remove excess silicone from pan rail and ensure the surface is clean and dry.
10. Run a bead of RTV silicone on the transmission pan. Before installing the pan onto the transmission double check that the transmission pan rail on transmission is dry.
11. Install transmission pan onto transmission and install pan bolts finger tight.
12. Torque 8mm transmission pan bolts to 110 in. lbs.
13. If a factory transmission pan is installed, fill the transmission with 5 quarts of ATF +4.
14. Start the vehicle and check transmission fluid and add as needed.
15. Test drive vehicle to get transmission to operating temperature.
16. Check transmission for leaks and check fluid level and add fluid as needed.