



BULLY DOG

#1 IN PERFORMANCE

INSTALLATION MANUAL



Stage 1 Shift Enhancer

Applications

GM Duramax w/ auto trans '01-'05

Rapid Power Part #

153001

INTRODUCTION

Get ready for greatly improved shift over stock shifting, this stage 1 shift enhancer will give you a noticeably better shift with a more positive engage. Before beginning installation be sure that the truck has sat long enough for the transmission to completely cool down.

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STOP!

TROUBLESHOOTING:

Technical support is available by calling 866-bullydog (866-285-5936).

Parts included:

Contents:

- Yellow Springs (2)
- Trim Valve A w/rib
 - Trim Valve B
- 1/8" Drill Bit



THE SPRINGS: The two springs included with this kit will replace two of the stock springs that are in the transmission valve body.

TRIM VALVE A W/RIB: This trim valve will replace the stock valve. Trim Valve A is unique, notice that it has a little rib in the center. It is very important not to mix up Trim Valve A with Trim Valve B.

TRIM VALVE B: This trim valve does not have an ribs.

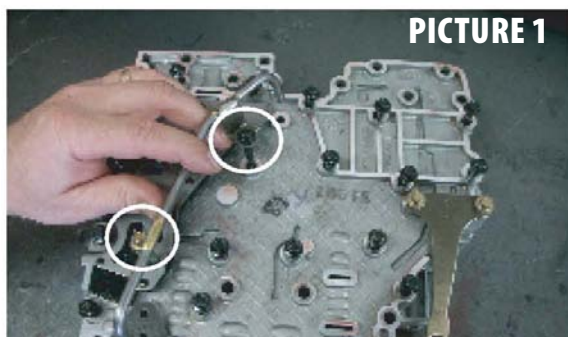


1/8" DRILL BIT: This is a standard off the shelf metal drill bit, you can replace it with a drill bit from a local hardware store or from your own collection if it is lost.

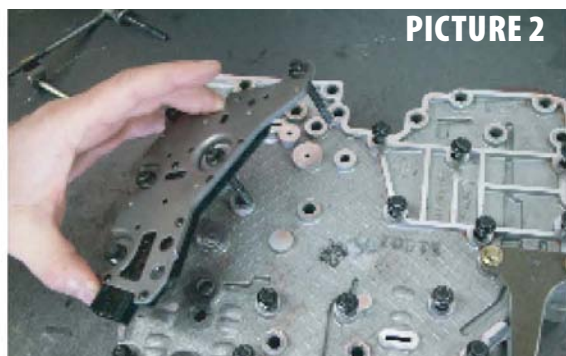
REMOVING THE TRANSMISSION VALVE BODY

Important: When dismantling the valve body be careful to store all of the parts in a safe place to prevent them from being lost. It is also very important to keep all the parts clean.

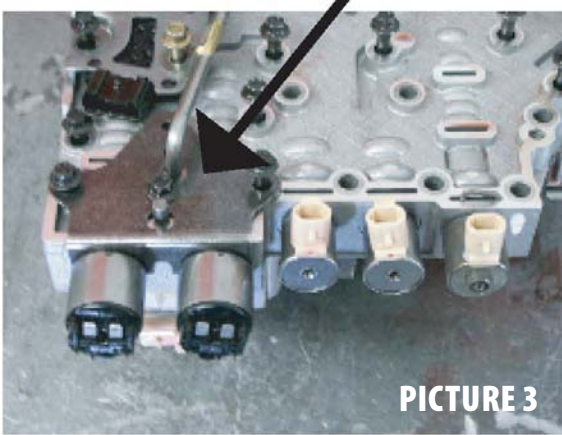
1. Remove the transmission pan plug and drain all the transmission oil from the pan.
2. Remove the transmission oil filter.
3. Un-bolt the valve body from the transmission and remove it from the vehicle.
4. Remove the two bolts and remove the pipe shown in picture #1



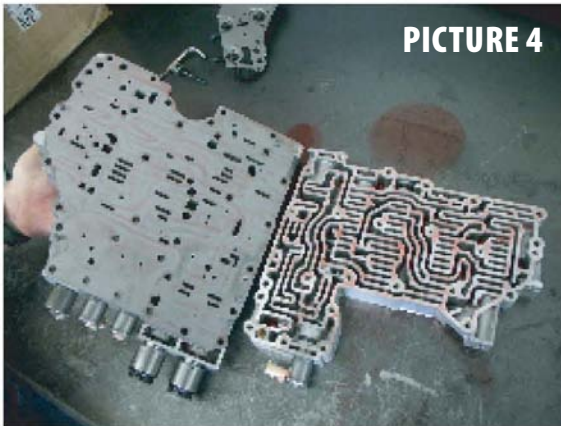
5. Remove the plate shown in picture #2.



6. Remove the plate that secures the solenoids shown in picture #3.



7. Remove all the remaining bolts that hold the valve body together and dismantle it. When separating the valve body pull evenly on each side being careful not to break the attaching dowels. Do not use any pry bars or tools to separate the valve body.



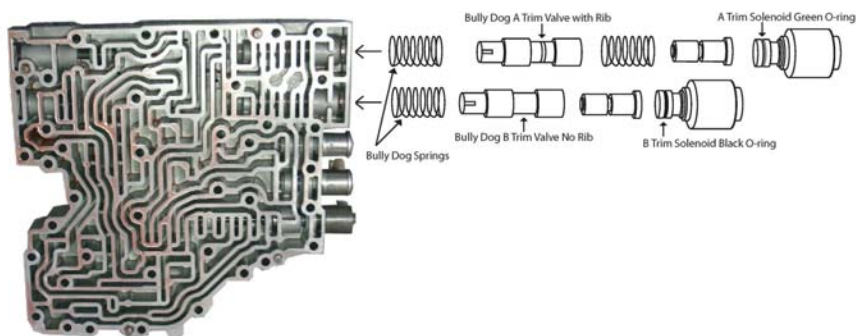
8. You now have the valve body completely dismantled and are ready to start the modifications. See the steps and diagrams in the next section for details.

VALVE BODY MODIFICATIONS

There are two major modifications, the first is to swap out the trim valves and place springs in front of the trim valves before replacing them. It is a good idea to first full swap out the A Trim side and replace it before starting on the B Trim side to reduce the chance of loosing parts or mixing things up. The second is to drill out two holes in the separator plate to supply more oil.

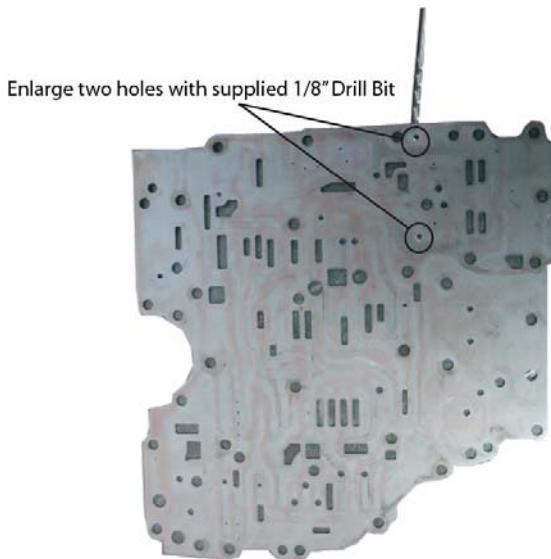
1. Remove the A Trim solenoid and the 2 valves and 2 springs.
2. Replace the parts in the order shown in the Trim Valve Diagram using the Bully Dog A Trim valve. The A Trim valve is the valve with the rib.
3. Remove the B Trim solenoid and the 2 valves and springs.
4. Replace the parts in the order shown in the Trim Valve Diagram using the Bully Dog B Trim valve. The B Trim valve is the valve without the rib.

TRIM VALVE DIAGRAM



6. See the Separator Plate Drilling diagram to see where to drill out the two holes, then use the 1/8th drill bit that is included with the kit to drill out those two holes.

SEPARATOR PLATE DRILLING DIAGRAM



7. Finally reassemble the valve body and then install back onto the transmission. Torque the bolts that connect the valve body to the transmission to 8 ft/lbs.

VALVE BODY ASSEMBLY: When bolting the valve body back up to the transmission, torque all the bolts to 8 ft/lbs.

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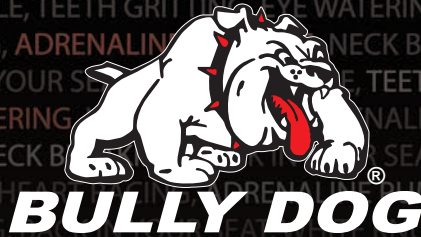
Intake Systems



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BULLY DOG

Free Technical Support at:

866-bullydog (866-285-5936)

See More at: bullydog.com