

**advanced FLOW engineering**

**Instruction Manual** P/N: 46-70050 / 46-70051 / 46-70052

Make: **Dodge** Model: **RAM 2500/3500** Year: **1994-2007** Engine: **L6-5.9L (td)**



- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- If you are missing any of the components, call customer support at 951-493-7100.
- Ensure you have all necessary tools before proceeding.
- Do not attempt to work on your vehicle when the engine is hot.
- Disconnect the negative battery terminal before proceeding.
- Retain factory parts for future use.

Label	Qty.	Description	Part Number
A1	1	Trans. Pan - Black Fins (46-70051)	05-60064
A2	1	Trans. Pan - Black, Machined Fins (46-70052)	05-60065
A3	1	Trans. Pan - Raw, Machined Fins (46-70050)	05-60065A
B	1	Plug, Square Socket Head, 3/4" - 14 NPTF Magnet	03-50222
C	1	Plug, Hex Hd Socket 1/8 NPT	03-50029
D	14	Screws, Socket Hd 5/16-18 x 1.0	03-50227
E	14	Flat Washers	03-50228
F	1	Filter Extension	05-60117
G	2	Screw, Round Hd #10-24 x 4	03-50243
H	1	O-Ring	05-60119
I	1	Trans. Filter	44-TF004

Warranty Information available at: <https://afepower.com/contact#warranty>

Installation will require the following tools:

T25 Bit and driver, flat head screw driver, 1/2" socket, 1/4" Allen bit w/ 3/8" ratchet drive, Ratchet, 3/8" Drive torque wrench, 1/2" Drive torque wrench, 3/16 Allen key & Oil Drain pan (12 Qt. Capacity)

Note: A gasket is not included with the aFe Transmission pan. The Dodge OE part number for the gasket is 2464324. This Dodge OE Gasket is also available from the aFe and sold separately (P/N 46-70055).

A1



A2



A3



F



H

B



C

D



E



G



**Refer to Figure A**

Step 1: Park your truck on level ground and apply the parking brake.

Step 2: Position a drain pan under the transmission pan.



Figure B

**Refer to Figure B**

Step 3: Begin by loosening the 7 screws on the rear of the transmission pan using a 1/2" socket and 3/8 ratchet drive. DO NOT remove screws

Step 4: Now loosen the 7 screws on the Front side of the transmission pan. DO NOT remove screws

Step 5: Carefully pry the pan to break the seal to start draining the fluid.



Figure C

### **Refer to Figure C**

Step 6: Begin removing the screws one by one from the rear to the front of the pan to let more fluid drain out.

Step 7: Once you have the majority of the fluid drained out and all screws removed, pull the cover off of the vehicle.



Figure D

**Refer to Figure D**

Step 8: Once the transmission pan is removed, check the mounting surface for any irregularities. Should there be any, carefully remove the high spots using a smooth flat file. DO NOT “ROUND OFF” THE FLAT GASKET SURFACE!

Step 9: Remove the transmission filter by removing the 2 screws holding the filter on (circled in white) using a T25 bit and driver.

**Figure E****Refer to Figure E**

Step 10: With the O-ring facing up, place the extension block onto the transmission filter.

Note: There are two types of filters available, one with three install holes and the newer filter has two install holes. If you have the filter with three install holes, grind or cut off 1/8-in of the stock screw and install it into the hole that is not being used by the extension block. It is needed to secure the valve body in place.





Figure F

**Refer to Figure F**

Step 11: Install the new filter and extension block as shown (torque to 35 in.-lbs.).



Figure G

**Refer to Figure G**

Step 12: Apply teflon pipe sealant tape on the threads of all the plug components before installing.



**Figure H**

**Refer to Figure H**

Step 13: If you are planning on installing a temperature sensor, leave this hole open. If not install your 1/8" NPT plug to seal it off. (torque to 30 in.-lbs.).

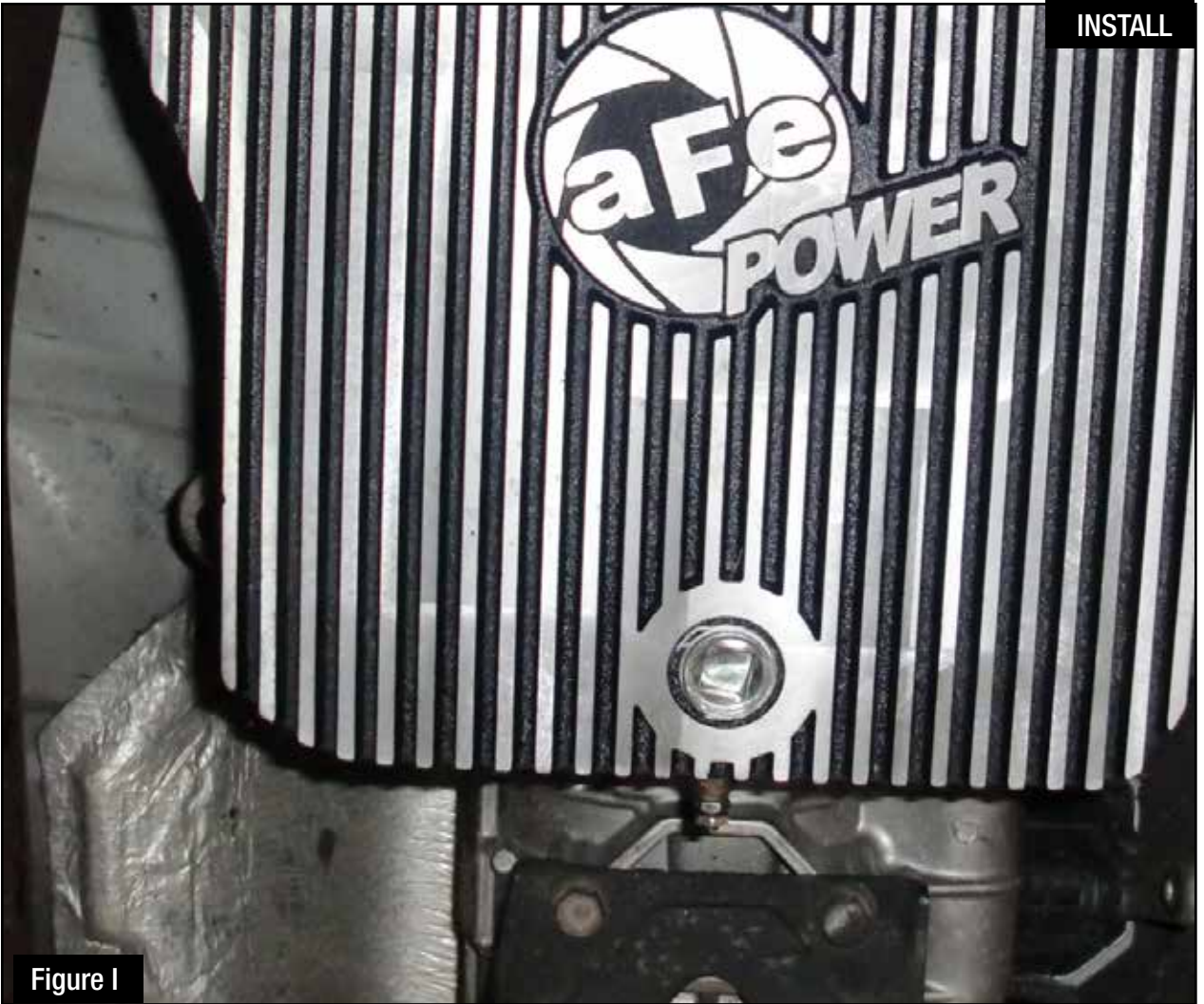


Figure 1

**Refer to Figure 1**

Step 14: Install the drain plug on the bottom of the aFe transmission pan (torque to 50 ft.-lbs.).



Figure J

**Refer to Figure J**

Step 15: Now align your transmission pan gasket with holes on the pan.

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**Figure K****Refer to Figure K**

Step 16: Place the aFe transmission pan into position aligning the screw holes and install a screw and washer into each of the corners of the pan to secure it from falling.

Step 17: Continue installing until all 14 screws and washers are installed and finger tight.

Step 18: Torque the mounting screws down to 16 ft.-lbs. in a criss cross pattern.

INSTALL



Figure L

### **Refer to Figure L**

Step 19: If you are going to install a temperature sensor, do so at this time before you add fluid. Be sure to use all-purpose anti-seize on the sensor threads.

**Figure M****Refer to Figure M**

Step 20: Remove the dipstick and refill the aFe transmission pan with new transmission fluid. Remember your new aFe pan holds about 4 quarts more than stock (Fill to full line on dipstick).

Step 21: When your fluid level is reached, be sure to install your transmission dip stick.





Figure N

**Refer to Figure N**

Step 22: Your installation is now complete. Verify all connections are secure before driving.

*NOTE: Retighten all connections after approximately 100-200 miles.*



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**advanced FLOW engineering, inc.**

252 Granite Street Corona, CA 92879

TEL: 951.493.7100 • TECH: 951.493.7100 x23

E-Mail: [Tech@aFepower.com](mailto:Tech@aFepower.com)