

# '03-'07 FORD 6.0L POWERSTROKE COOLANT FILTER KIT

## PARTS LIST AND INSTALLATION GUIDE



### PARTS INCLUDED

- 1PC** | APPLICATION-SPECIFIC MOUNTING BRACKET
- 1PC** | SILVER, ANODIZED 6061 ALUMINUM FILTER MOUNT
- 1PC** | COOLANT FILTER
- 2PC** | DIRECT-FIT SILICONE HOSES
- 2PC** | BRASS BALL VALVES
- 4PC** | WORM-GEAR CLAMPS
- 1PC** | PLASTIC STRAIGHT BARBED FITTING
- MOUNTING HARDWARE

### TOOLS NEEDED

- FLATHEAD SCREWDRIVER
- 22MM WRENCH
- 10MM RATCHET WRENCH
- 3/8" DRIVE RATCHET
- 19MM SOCKET
- CHANNELLOCK PLIERS
- 5MM ALLEN KEY
- TEFLON® TAPE
- FUNNEL
- FORD-APPROVED COOLANT

**INSTALL TIME 45 MINUTES**

**INSTALL DIFFICULTY**

### DISCLAIMER

- Raise vehicle only on jack stands or on a vehicle lift.
- Allow vehicle to cool completely prior to attempting installation.
- Do not run the engine or drive the vehicle while overheating; serious damage can occur.
- Please dispose of any liquids properly.
- Mishimoto is not responsible for any vehicle damage or personal injury due to installation errors, misuse, or removal of Mishimoto products.
- Mishimoto suggests that a trained professional install all Mishimoto products.

### CAUTION

Never work on the cooling system when it is hot. The coolant temperature in the radiator can be considerably higher than boiling, and the system may be under pressure. Opening a cooling system that is hot or under pressure can result in serious injury. Always wait until the system has cooled completely before servicing it in any way.

### INSTALL PROCEDURE

- 01.** Wrap the threads of both ball valves with Teflon® tape in the direction that the valves will thread into the filter housing.
- 02.** Thread the ball valves into the filter housing and tighten them. The threads on these valves are tapered and may not bottom out when fully tightened.
- 03.** Attach the mounting bracket to the filter housing. The bracket should face downward, in toward the filter side of the housing. (3x 5mm Allen bolts and washers)
- 04.** Remove the 10mm bolt holding the intercooler to the radiator on the passenger side, and install the filter housing using this bolt. At this point, one ball valve should be pointed toward the driver side, and the other should be pointed toward the rear of the truck. (1x 10mm bolt)



- 05.** Install the filter onto the housing and hand-tighten.
- 06.** Place a clean coolant drain pan or similar container under the drain valve on the radiator. Loosen the drain valve, drain the coolant until it's below the level of the heater hose, and then close the drain valve. This cooling system holds a lot of coolant, so make sure you have a large container.  
**Note:** The valve and the radiator are made of plastic and become brittle with age; take care when opening this valve so as not to damage the radiator.
- 07.** Remove the coolant overflow hose from the radiator and the expansion tank by squeezing the clamps and sliding them up the hose. (2x spring clamps)

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08. Install the Mishimoto silicone hose using the spring clamps from the overflow hose. The third leg of the hose should reach across the fan shroud to the ball valve of the coolant filter housing. (2x spring clamps)
09. Attach the third leg of the silicone hose to the ball valve using the supplied worm-gear clamp. (1x worm-gear clamp)



10. Remove the heater hose from the coolant bypass tube that runs along the passenger side of the alternator. If you drained the coolant, this hose should now be empty. (1x spring clamp)
11. Install the supplied black plastic fitting into the second silicone hose, and secure it with a worm-gear clamp. (1x worm-gear clamp)
12. Insert the other end of the black fitting into the heater hose. Secure the heater hose to the fitting using the original spring clamp. (1x spring clamp)
13. Slip the open end of the silicone hose over the metal bypass tube, and secure it with a worm-gear clamp. (1x worm-gear clamp)

14. Attach the third leg of the silicone hose to the ball valve, and secure it with a worm-gear clamp.



15. Double check that your clamps are securely tightened, and then refill the coolant system. Leave the coolant pressure cap off. Start the engine, and select full heat and low fan speed on the interior HVAC system. Allow the engine to warm up to operating temperature while you top off the coolant as needed. Monitor your connections for leaks. Once the vehicle is fully warmed up, install the coolant pressure cap and go for a test drive. Check the coolant level once more after the vehicle has cooled down completely.

**Congrats! You just finished installing the '03-'07 Ford 6.0L Powerstroke Coolant Filter Kit**



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