

**2003 - 2007 FORD 6.0L POWERSTROKE**  
COOLER UPGRADE KIT

**USER MANUAL**

# Warning Regarding Emission Laws

Not legal for sale or use on pollution-controlled motor vehicles anywhere in the United States. Legal ONLY for off-road competition racing vehicles and cannot be used on vehicles that are operated on public streets, roads, or highways.

## Disclaimer

- By installing this product onto your vehicle, you assume all risk and liability associated with its use.
- It is your responsibility to make sure your vehicle complies with all federal, state, and local emissions laws. Federal and many state and local laws prohibit the removal, modification or rendering inoperative of any part of the design affecting emissions or safety on motor vehicles used on a public street or highway. Violation may result in a fine of up to \$32,500 per vehicle (or possibly higher depending on changes in the law). All civil penalties and fines for removing your vehicle's emissions equipment are the sole responsibility of the end user.
- Due to its high performance nature, this product may void vehicle manufacturer's warranty.
- GDP Tuning, LLC. is not responsible for misuse of its products. By installing this product, you release GDP Tuning, LLC. of any and all liability associated with its use.
- Depending on where you live, restrictions may apply. Check all applicable laws before installing or using!
- The purchaser and end user releases, indemnifies, discharges and holds harmless GDP Tuning, LLC. from any and all claims, damages, causes of action, injuries, or expenses resulting from or relating to the use or installation of this product that is in violation of the terms and conditions on this page, the product disclaimer, and/or the product installation instructions. GDP Tuning, LLC. will not be liable for any direct, indirect, consequential, exemplary, punitive, statutory, or incidental damages or fines caused by the use or installation of this product.

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## Caution

Never work on a hot vehicle. Serious injury in the form of burns can result if the vehicle has been in use. Allow vehicle to cool prior to installation. Always wear eye protection when working on or under any vehicle.

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GDP220007



## Step 1

Disconnect Battery.



## Step 2

Drain coolant.



## Step 3

Remove clips for plastic wire way, located above the turbo. Fold to windshield of truck and retain with plastic zip tie.



## Step 4

: Remove upper fan shroud by prying away from radiator through slots. (Note: The plastic can be very brittle.)



## Step 5

Loosen hose clamps and remove intake tube. Then unscrew bolts and remove turbo inlet tube and PCV Valve.



## Step 6

Unbolt alternator and disconnect wires. Tilt alternator towards front of vehicle. (Note: it is not necessary to loosen belt tensioner.)



## Step 7

Remove Turbo- Remove: • Intercooler pipe • Oil feed line from oil cooler to turbo (3 bolts) • VGT actuator harness plug • Up-pipe v band clamp • Turbo v-band clamp (downpipe) • Turbo mounting bolts (3 Bolts), See Step 9 for turbo mounting bolt locations.

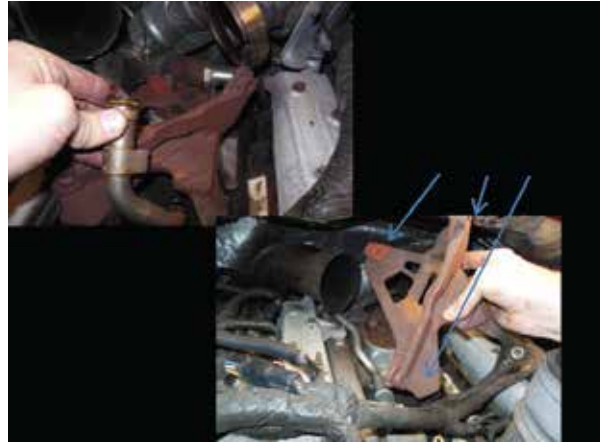


## Step 8

Once these parts are removed the turbo will rotate toward the passenger side of the truck and out of the pedestal.

## Step 9

Remove the oil drain tube from the High Pressure Oil Pump Housing, then remove the turbo mounting pedestal (4 Bolts).



## Step 10

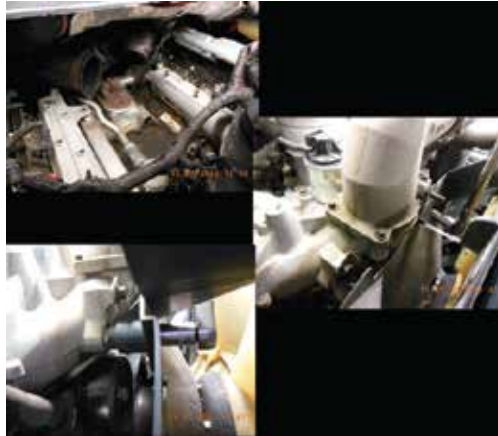
Remove EGR cooler v-band clamp from up-pipe.





## Step 11

Loosen the intake manifold bolts on the driver's side. Completely remove the intake manifold bolts from the passenger side and note their location using a piece of cardboard. Remove the two bolts that go through the inner fan stator to the intake manifold (located under the shroud).

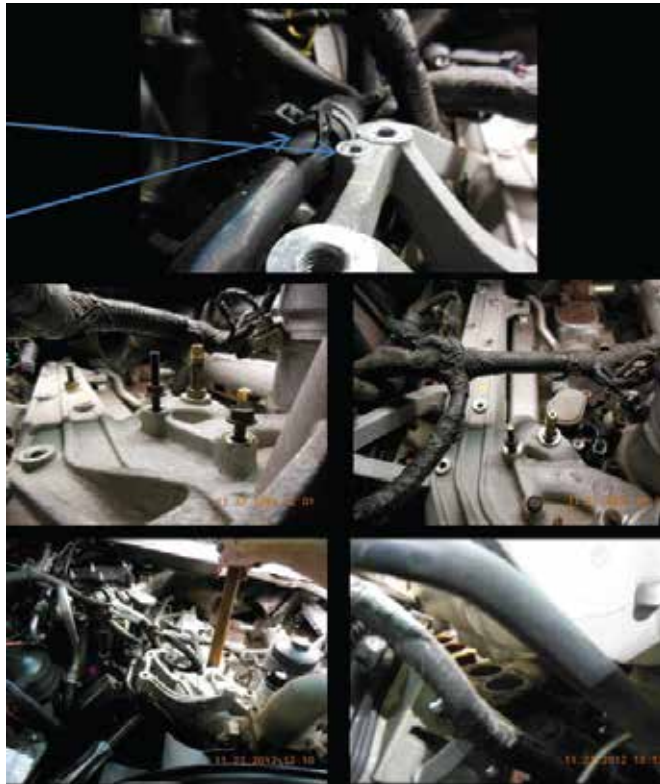


## Step 12

Remove the bolt that is used to stiffen the heater tube to the manifold (located below alternator). Bend this tab upward.

## Step 13

Remove EGR cooler's (3) mounting bolts.



## Step 14

Lightly push down on the EGR cooler while pulling up on the intake manifold to disengage from the manifold.

## Step 15

While holding the manifold up with a small pry bar, move the cooler toward the back of the engine. Continuing to hold the manifold up, lift and remove the cooler through the front of the engine. Be sure that all gaskets and O-rings are removed with the cooler.

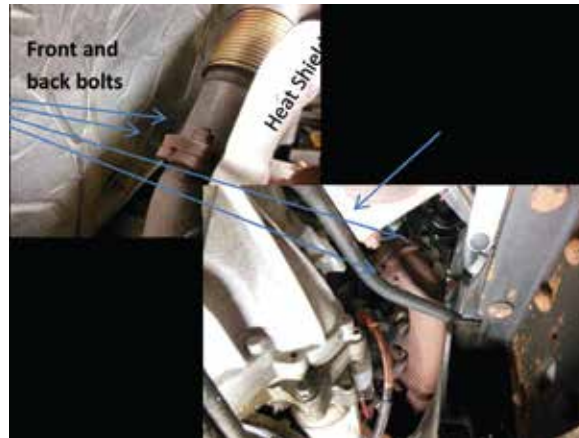


## Step 16

Replace intake manifold bolts and torque to 120 (in lbs.).

## Step 17

Remove factory up-pipe: From underneath the passenger side of the truck, remove the 2 bolts holding the up-pipe to the exhaust manifold. Once the bottom bolts have been removed, from the topside of the engine, loosen and remove bolts from factory up-pipe behind the heat shield.



## Step 18

Install Cooler Upgrade Up-pipe with new gasket provided, using the supplied hardware (gasket on top side).



## Step 19

Install the 3/4" silicone hose on the 2/4" 180 degree Stainless steel coolant tube provided. Loosely install hose clamps.



## Step 20

Grease the EGR Cooler adapter O-ring. Place into intake manifold. Finger tighten the two longer factory cooler mounting bolts. The third smaller bolt can be discarded.

## Step 21

Tighten billet adapter bolts to 120 (in lbs.), while tightening make sure the O-ring stays in place and alignment is correct. Be sure not to over torque the bolts. Slide hose over the oil cooler nipple and tighten both hose clamps snugly.

## Step 22

Remove factory EGR Valve from intake manifold and install the block-off plate, use existing bolts and torque to 120 (in lbs.).

## Step 23

Reinstall turbo, all intake and exhaust tubes including down pipe, alternator, shroud, wires, etc. in reverse order from steps 3 to 17.

## Step 24

Refill with new coolant, use manufacturer recommended and mix according to label.

## Step 25

You are now ready to test your EGR Upgrade Kit. Start engine and run till coolant circulates. Top off coolant system if needed. Make a close inspection for any coolant leaks or oil leaks.

Note: If vehicle throws a code or check engine light, consider leaving factory EGR valve in place (05 models only). Alternatively, on 05-07 model years aftermarket tuning can be used to avoid any trouble codes.