



INSTALLATION INSTRUCTIONS

MAKE: Ford
MODEL: F-150
YEAR: 2011-2012
ENGINE: V6-3.5L (tt)

Turbocharger
46-60322



EMISSIONS DISCLAIMER

This product is not currently CARB exempt and is not available for purchase in California or for use on any vehicle registered with the California Department of Motor Vehicles.

Item	Description	Part Number	Quantity
1	Turbocharger, Ford F-150 11-12 3.5L, Rt	05-61373	1
2	Turbocharger, Ford F-150 11-12 3.5L, Lt	05-61374	1

aFe POWER recommends professional installation on this product. Thoroughly inspect the aFe POWER exhaust system to make sure there is no damage from shipping (if damage is noted, immediately contact aFe POWER customer service). Allow time for your vehicle to cool down prior to installation. When working on your vehicle proceed with caution. Wear protective safety equipment; eye goggles and gloves to ensure a safe installation.



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1. **(Read instructions prior to installation.)**
2. Disconnect the negative battery cable and secure it away from the post.
3. Raise the front end safely and secure it on heavy-duty jack stands.
4. both front wheels and pull out the plastic inner fender splash liners to fully expose the side of the engine block.
5. Locate the red drain petcock on the bottom passenger side of the radiator. Attach a hose and drain the engine coolant into a clean catch pan.
6. Spray penetrating oil onto the exhaust manifold studs, turbo mounting bolts, and downpipe nuts.
7. Loosen the hose clamps and remove the air inlet tubes running from the airbox to both turbo inlets.
8. Loosen and back away the hot-side intercooler piping connected to the turbo compressor outlets.
9. From beneath the truck, remove the two 15mm nuts holding the exhaust downpipe to each turbocharger's exhaust housing. Separate the downpipes from the turbo studs (you do not need to pull the downpipe completely out of the truck).
Note: The passenger side requires moving the starter to clear the oil drain lines.
10. Unbolt the transmission cooler line bracket (10mm) and remove the two 13mm starter mounting bolts. Slide the starter back out of the way without disconnecting its electrical wires.
11. Use a small pick tool to pull back the retaining clips on the Jiffytite quick-connect lines. Carefully pull the hard coolant lines out of the turbo housing.
12. Use a T45 Torx bit to unbolt the oil supply line at the top of the turbo.
13. Unbolt the oil drain manifold located beneath the turbo housing.
14. Support the weight of the turbocharger. Remove the three main mounting bolts securing the turbo assembly to the exhaust manifold.
15. Wiggle the turbo assembly free from the alignment studs and maneuver it out through the open wheel well.
16. Scrape off any carbon build-up or old gasket material from the exhaust manifold mating surfaces and the exhaust downpipe flanges.
17. Pre-lube the oil inlet with the supplied oil. Spin the compressor wheel several times to coat the bearing with oil.
18. Install turbo outlet adaptor plates, with supplied gaskets.
19. Guide the new turbocharger into position over the exhaust manifold alignment pins. Hand-thread the mounting bolts, then torque them down to 30 lb-ft.
20. Click the hard coolant lines into the Jiffytite block and turbo fittings until the metal retaining wire snaps locked.
21. Reinstall the lower oil drain tube manifold using the supplied gasket.
22. Secure the top oil feed line using your T45 Torx tool.
23. Bolt the exhaust downpipes back onto the turbo outlet studs and torque the nuts securely. Reposition and bolt down the passenger-side starter. Reconnect all intercooler couplers and air intake pipes.
24. Close the radiator petcock and fill the cooling system.
25. Connect the battery. To prevent dry-starting and destroying the new turbo bearings, pull the fuel pump fuse or hold the gas pedal completely down to the floor while turning the ignition key for 10 seconds. This cranks the engine to build oil pressure through the new turbos without starting the truck.
26. Replace the fuel fuse/release the pedal and start the vehicle. Let it idle up to operating temperature. Inspect the wheel wells with a flashlight to verify there are no coolant, oil or exhaust leaks.
27. Reinstall the plastic inner fender liners and mount the front wheels. Lower the vehicle and test drive.
28. Your installation is complete.
29. It is recommended to check for leaks or loose hardware after 50-100 miles.