

INSTALLATION INSTRUCTIONS



46-10061 Ford Trucks 99.5-03 V8-7.3L (td)

Read these instructions carefully before proceeding to install system. Verify the components below with the actual contents. Insure you have the tools and expertise required to install this system.

If you have any questions, contact aFe at (951)493-7100 and ask for the "tech support".



Required Tools:

3/16" allen wrench
7/16" deep socket wrench
8mm socket
10mm socket or wrench
9/16" socket
5/16" nut driver
13mm wrench
Adjustable wrench
ratchet & extension
flat blade screwdriver
philips screwdriver
pliers
teflon pipe sealant tape

NOTE:

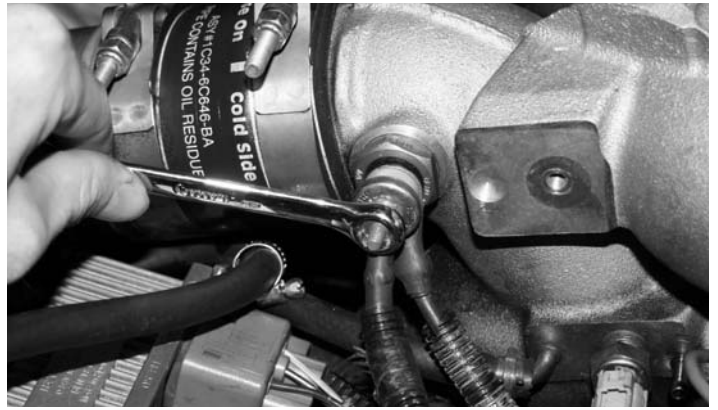
- Failure to follow installation instructions and not using the provided hardware may damage the system.
- Retain your stock intake manifold in the event you wish to return vehicle to stock status.
- Go to www.afepower.com for more product information.

PARTS LIST:

Description	Qty	Part #
A Turbo Outlet Manifold	1	05-60030
B Intake Manifold	1	05-60031
C Bracket	1	05-60032
D Hex Socket Plug, 1/8" NPT	6	03-50029
E Hex Head Cap Screw	2	03-50212
F Hex Flange Head Screw	1	03-50182
G Brass Hose Nipple	1	03-50191
H 90° Brass Hose Nipple	1	03-50213



1- View of stock turbo outlet/ intake manifold. Disconnect the negative (-) battery terminals before installation.



5- Using a 10mm wrench, remove the heating element wires.



2- Remove the boost control module using a 8mm wrench or socket.



6- With an adjustable wrench, remove the heating element.



3- Disconnect the rubber boot/ hose.



7- Once removed, put the heating element to the side for later install.



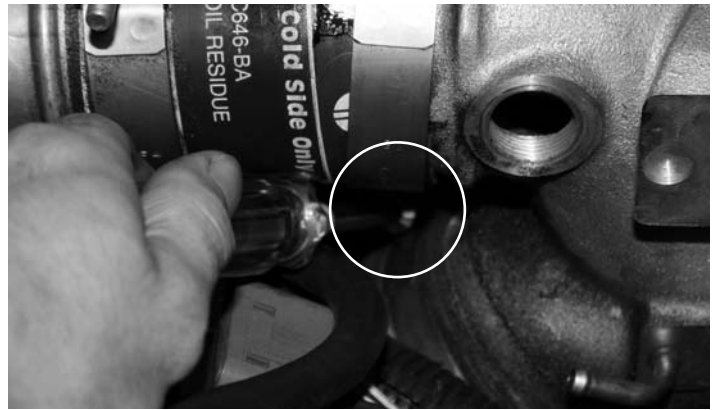
4- Disconnect the temp sensor.



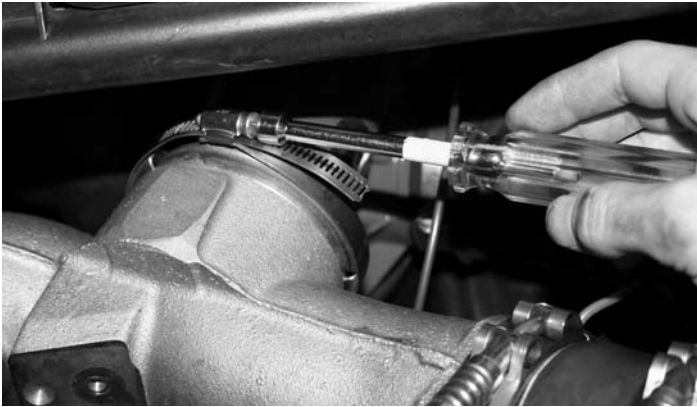
8- Remove the temp sensor from the lower manifold using a 13mm wrench and put aside for later install.



9- Using pliers to squeeze the clamp tabs, remove the rubber hose from the lower intake manifold fitting.



13- Loosen both upper clamps on the Y-inlets of the stock intake manifold as seen in this photo and also in step 14.



10- Using a flat head screw driver or 5/16" nut driver, remove the turbo manifold V-band clamp.



14- If needed, replace the couplings with Ford part number F81Z 6C640- FA available from your local dealer.



11- Loosen the clamp holding the manifold to the intercooler tube return side using a 7/16" deep socket.



15- Pull the manifold out of the vehicle and be careful not to let anything fall into the plenum openings.



12- Loosen the clamp holding the turbo outlet coupling to the intercooler tube using a 7/16" deep socket.



16- Locate the bracket mounting holes that are located directly under these two intake couplings. The holes are on the top of the motor as shown in Step 17.



17- Use 3/8 - 16 tapped holes on the motor for the mounting support bracket.



21- Install the heating element and temp sensor into the manifold and, last install the brass hose nipple. Torque all items to 16 Ft. Lbs.



18- Install the manifold support bracket onto the top of the motor with 3/8 - 16 hex head cap screws supplied. Torque screws to 18 Ft. Lbs.



22- Connect the temp sensor before setting the manifold into the couplings.



19- Using teflon pipe sealant tape, wrap a thin layer around the threads of each component.



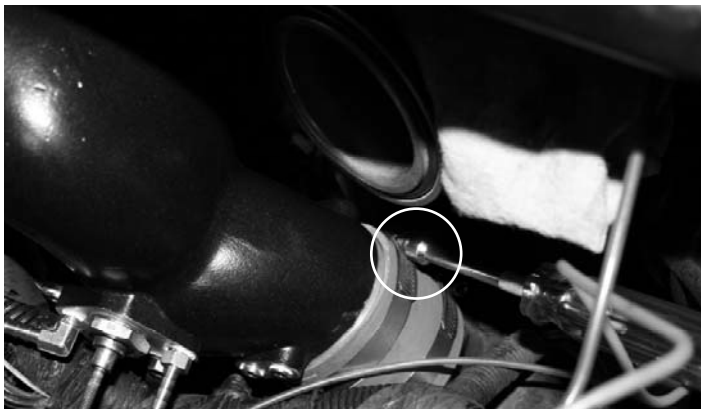
23- Once the manifold is in position, adjust the clamps to the desired location that makes them easiest to access.



20- Install all 6 plugs and the 90 degree fitting elbow into the manifolds, then install the band clamp from the stock Y-inlet manifold.



24- Line up the lower manifold with the support bracket and install the hex flange head screw supplied.



25- Now that you have the manifold in its desired location, tighten both sides of the lower manifold coupling clamps.



29- Once the manifold is in its desired position, firmly tighten down the turbo V-band clamp.



26- Slide the intercooler tube coupling onto the manifold, then tighten clamp. Torque to 9 Ft. Lbs.



30- Install the hot side intercooler tube coupling onto the turbo manifold. Torque clamp to 9 Ft. Lbs.



27- Now reinstall the lower manifold wires and hoses that you disconnected in steps #3, #5, and #9.



31- Now reinstall the boost control module. Reconnect battery.



28- Position the turbo outlet manifold onto the turbo evenly and secure with the V-band clamp.



32- Your installation is now complete. Please check all components and retighten if necessary. Thank you for choosing aFe Power!

PERFORMANCE DATA

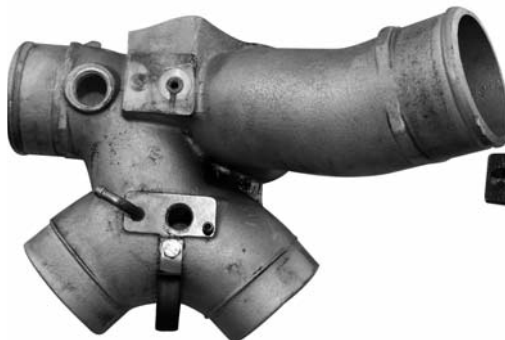


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Intake Manifold



Stock Manifold



Turbo Outlet Manifold



+18.3% flow gain

+14.8% flow gain

