



advanced FLOW engineering

Instruction Manual P/N: 46-20318-B

Make: **Ford** Model: **F-250/F-350 Super Duty** Year: **2017-2022** Engine: **V8-6.7L (td) Power Stroke**



- 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 951-493-7185.
- 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
A	1	Tube, Hot Side	05-60804B
B	1	Coupling, Silicone Hump	05-60620
C	1	O-Ring	05-60615
D	2	Clamp, Spring Loaded T-Bolt: 3.25"	03-50530
E	1	Plug, Hex Hd Socket: 1/8" NPT	03-50029

Tools Needed: {x2} Long screwdrivers, extension, ratchet, 7mm socket, 11mm socket 3/16" allen wrench, grease and thread sealant.

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

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.





Refer to Figure A for Steps 1-3

Step 1: Park vehicle on level ground and engage the parking brake.

Step 2: Open the hood and disconnect the negative battery cable from both batteries.

Step 3: Locate the hot side charge pipe, it will be the metal pipe on the driver side.



Figure B

Refer to Figure B for Steps 4-7

Step 4: Loosen the clamp securing the coupling onto the intercooler using a 7mm socket.

Step 5: Disconnect the coupling from the intercooler.

Step 6: Lift both sides of the retaining clip that secures the charge pipe to the turbo using two flat head screwdrivers.

Step 7: Remove the charge pipe from the vehicle.



Refer to Figure C for Steps 8-10

Step 8: Stand the factory charge pipe up on the end with the metal adapter.

Step 9: The plastic clip will need to be removed from the charge pipe by tapping it downwards with a screw driver on each side.

Step 10: Once the plastic clip is removed you can now remove the metal retaining clip for reuse with the aFe charge pipe.



Figure D

Refer to Figure D for Steps 11-15

Step 11: Now you can start the assembly of the aFe charge pipe.

Step 12: If you are not using any aftermarket sensors, install the 1/8" plug into the aFe charge pipe using a 3/16" Allen wrench.

NOTE: Be sure to use thread sealant on the plug to prevent any leaking.

Step 13: Install the supplied O-ring into the groove on the inside of the adapter on the aFe charge pipe.

NOTE: Be sure to lubricate the O-ring with grease to prevent it from tearing during install.

Step 14: Install the factory retaining clip into the slotted adapter on the aFe charge pipe with the opening facing downwards.

Step 15: Install one of the clamps and the hump coupling onto the charge pipe then slide the coupling back to the bend.



Refer to Figure E for Steps 16-19

Step 16: Install the remaining clamp onto the intercooler inlet.

Step 17: Install the hot side pipe into the vehicle, first connect the aFe charge pipe to the turbo and make sure the retaining clip snaps into place.

Step 18: Now you can slide the coupling onto the intercooler and make sure the bead on the inside of the coupling sits into the groove on the charge pipe.

Step 19: Rotate the clamps into place and tighten them using a 11mm socket. Install is now complete!

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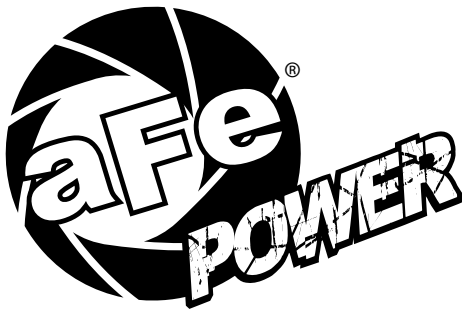
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- Disconnect the negative battery terminal before proceeding.
- Retain factory parts for future use.

Label	Qty.	Description	Part Number
A	1	Tube, Cold Side	05-60805B
B	1	Coupling, Silicone Reducer	05-60803
C	1	Coupling, Silicone Hump	05-60025
D	1	O-Ring, 82mm	05-60614
E	2	Clamp, Spring Loaded T-Bolt: 3.75"	05-600247
F	1	Screw, Btn Hd Scket: M6	03-50113
G	1	Washer, Flat: M6	03-50070
H	1	Bracket	05-60621
I	1	Adaptor	05-60605
J	1	Clamp, Spring Loaded T-Bolt: 3.25"	03-50530
K	1	Clamp, Spring Loaded T-Bolt : 2.85"	05-60039
L	1	Plug, Hex Hd Socket: 1/8" NPT	03-50029

Tools Needed: Screwdriver, long extension, ratchet, 7mm socket, 10mm socket, 11mm socket, 3/16" allen wrench, 4mm allen wrench, grease and thread sealant.

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Figure A

Refer to Figure A for Steps 1-3

Step 1: Park vehicle on level ground and engage the parking brake.

Step 2: Open the hood and disconnect the negative battery cable from both batteries.

Step 3: Locate the cold side charge pipe, it will be the rubber hose on the driver side of the vehicle.



Figure B

Refer to Figure B for Steps 4-8

Step 4: Loosen the clamp securing the charge pipe onto the intercooler using a 7mm socket.

Step 5: Unclip the wire loom from the factory plastic charge pipe adapter using a panel popper.

Step 6: Disconnect the connector from the sensor in the factory plastic charge pipe adapter.

Step 7: Remove the retaining clip that secures the plastic charge pipe adapter to the engine inlet using a flat head screwdriver.

Step 8: Remove the charge pipe from the vehicle.



Figure C

Refer to Figure C for Steps 9-11

Step 9: Unbolt the power steering reservoir from the fan shroud using a 10mm socket, move the power steering reservoir out of the factory mounting location and place it to the side.

Step 10: Install the supplied bracket into the factory mounting location of the power steering reservoir using the factory hardware, then install the power steering reservoir onto the aFe bracket and bolt down using the supplied 6mm bolt and washer with a 4mm allen wrench.

NOTE: The factory clamp on the power steering hose may need to be rotated to clear the charge pipe.

Step 11: Remove the sensor from the factory plastic charge pipe adapter by lifting the tab gently with a screwdriver and twisting the sensor counter clock-wise 1/4 turn then pull sensor out of the adapter.



Figure D

Refer to Figure D for Steps 12-16

Step 12: Now we can begin the assembly of the aFe charge pipe.

Step 13: Install the factory retaining clip onto the aFe aluminum adapter.

Step 14: Install the supplied O-ring into the groove on the inside of the aFe adapter.

Step 15: Install the adapter onto the engine inlet, be sure the clip snaps into place.

NOTE: Be sure to lubricate the O-ring with grease to prevent it from tearing during install.

Step 16: Install one of the large clamps onto the aFe adapter.



Figure E

Refer to Figure E for Steps 17-19

Step 17: If you are not using any aftermarket sensors, install the 1/8" plug into the aFe intercooler tube using a 3/16" Allen wrench.

NOTE: Be sure to use thread sealant on the plug to prevent any leaking.

Step 18: Install the medium (3.25") clamp onto the charge pipe then, install the angled coupling onto the end of the tube.

Step 19: Install the sensor from step 11 into the aFe charge pipe, be sure to twist and lock it into place.

NOTE: Be sure to lubricate the O-ring with grease to prevent it from tearing during installation.



Figure F

Refer to Figure F for Steps 20-22

Step 20: Place the remaining large clamp and the large coupling onto the large end of the aFe charge pipe, do not tighten at this time.

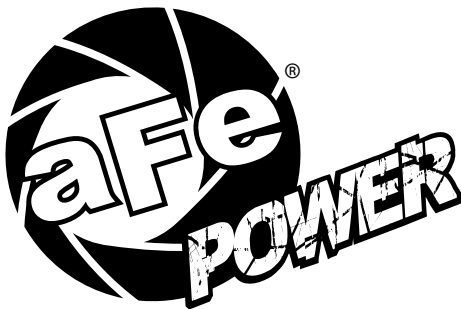
Step 21: Place the small clamp onto the intercooler outlet then install the charge pipe into the vehicle and slide the large coupling onto the adapter.

Step 22: Rotate the clamps into place, adjust couplings, and tighten all of the clamps using a 11mm socket. Install is now complete!



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