



advanced FLOW engineering BladeRunner – Cold Side Charge Pipe Kit Instruction Manual P/N: 46-20689-B

 Make: Ford
 Model: F-250
 Year: 2023-2024
 Engine: V8-6.7L (td)

 Make: Ford
 Model: F-350
 Year: 2023-2024
 Engine: V8-6.7L (td)





- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- For technical support please call 951-493-7185.
- Ensure you have all necessary tools before proceeding.
- Do not attempt to work on your vehicle when the engine is hot.
- Retain factory parts for future use.

Label	Qty.	UoM	Description	Part Number
Α	1	Ea.	Tube, Cold Side: 46-20689	05-61338B
В	1	Ea.	Coupling, Silicone Rdr: (3"x2.63") x 1.30"L 90 Deg	05-60803
С	1	Ea.	Coupling, Silicone Hump: 3.50"ID x 4"L	05-60025
D	1	Ea.	O-Ring, 80m ID x 5mm W	05-61136
Е	1	Ea.	Clamp, Spring Loaded T-Bolt: (3" - 3.25") (ss)	05-60435
F	1	Ea.	Clamp, Spring Loaded T-Bolt: (3.25" - 3.50") (ss)	03-50530
G	2	Ea.	Clamp, Spring Loaded T-Bolt: (3.75" - 4") (ss)	05-60024
Н	1	Ea.	Adaptor: 05-60596	05-60605
J	1	Ea.	Bracket, P/S Reservoir Relocation: 46-20149	05-60621
K	1	Ea.	Screw, Btn Hd Socket: M6x1x10	03-50113
М	1	Ea.	Washer, Flat: M6	03-50070
N	1	Ea.	Plug, Hex Hd Socket: 1/8" NPT (Zn Plt)	03-50029

Installation will require the following tools:

7mm, 10mm, 11mm sockets, 4mm allen, 3/16" allen, extensions, ratchet, flat screwdriver, pick, teflon tape, grease.

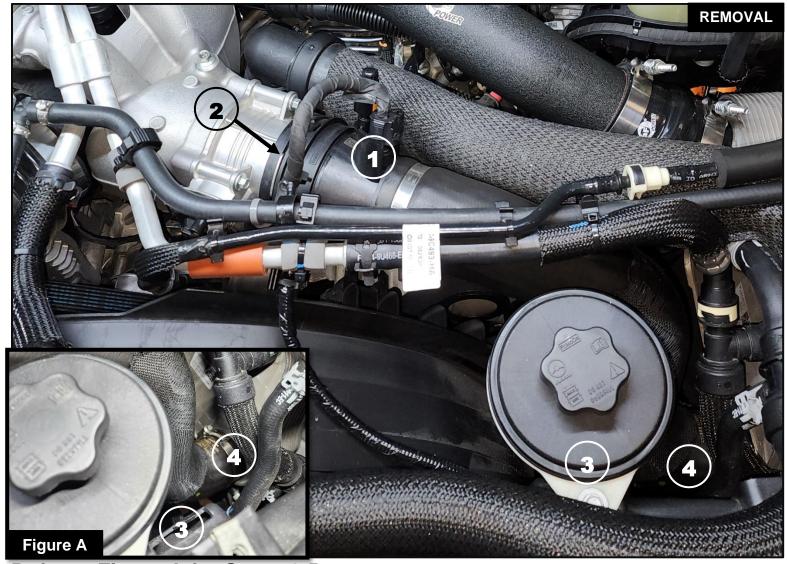
Warranty Information available at https://afepower.com/contact#warranty

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.





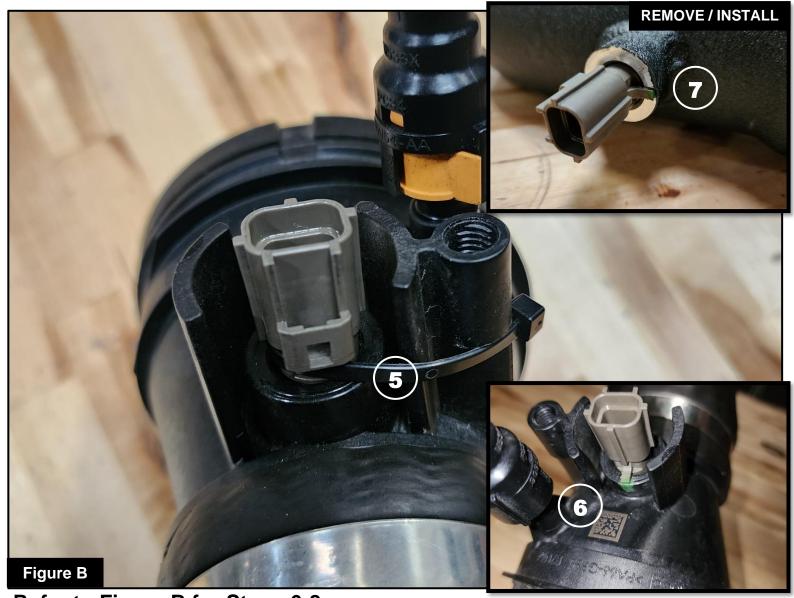




Refer to Figure A for Steps 1-5

- Step 1: Disconnect the negative battery cables.
- Step 2: Disconnect the temperature sensor connector from the sensor on the factory cold side charge pipe (1)
- Step 3: Remove the retaining clip securing the cold side charge pipe onto the engine inlet 2) set aside for use later.
- Step 4: Remove the screw securing the power steering reservoir to the fan shroud, then lift the reservoir out of its slot and set it to the side 3.
- Step 5: Loosen the clamp securing the cold side charge pipe to the intercooler, then remove the cold side charge pipe from the vehicle (4.)





Refer to Figure B for Steps 6-8

Step 6: Remove the zip tie from the factory cold side charge pipe temperature sensor 5. Do this by just sliding it up and working it around the ledges.

Step 7: Remove the factory temperature sensor from the cold side charge pipe 6. Do this by gently lifting the tab and twisting the sensor counterclockwise and pulling it out.

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

Step 8: Install the temperature sensor from the factory cold side charge pipe into the aFe POWER cold side charge pipe 7 twist it to lock it into place on the tab.

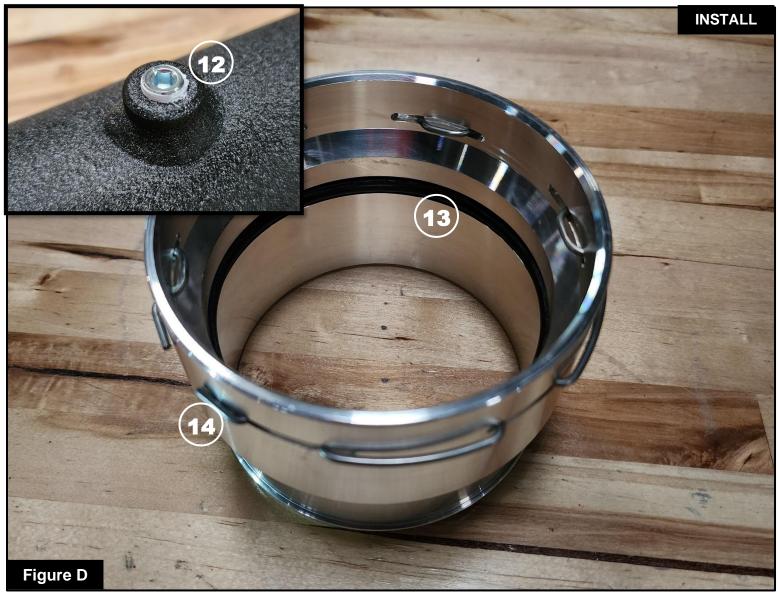




Refer to Figure C for Steps 9-12

- Step 9: Install the supplied aFe POWER silicone elbow reducer coupling, 3" x 2.63" x 90Deg and the 3.25" spring loaded T-Bolt clamp onto the cold side charge pipe (8) do not tighten the clamp yet.
- Step 10: Place the supplied 3.00" spring loaded T-Bolt clamp onto the end of the coupling from the previous step (9).
- Step 11: Install the supplied aFe POWER silicone hump coupling, 3.50"ID x 4"L and one 3.75" spring loaded T-Bolt clamp onto the cold side charge pipe (10) do not tighten the clamp yet.
- Step 12: Place the supplied 3.75" spring loaded T-Bolt clamp onto the end of the coupling from the previous step 11





Refer to Figure D for Steps 13-15

Note: Be sure to use thread sealant on the plug or sensor to prevent any leaking

Step 13: If you are not using any aftermarket sensors, install the supplied 1/8" NPT plug into the threaded fitting on the aFe POWER cold side charge pipe (12)

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

Step 14: Install one 80mm ID x 5mm W O-ring into the groove on the inside of the supplied aFe POWER engine inlet adaptor 13

Step 15: Install the factory engine inlet retaining clip from Step 3 onto the aFe POWER engine inlet adaptor





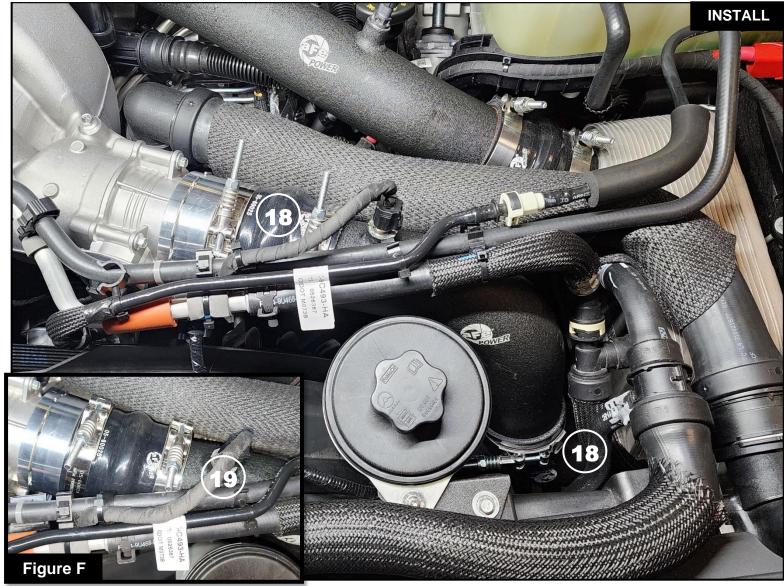
Refer to Figure E for Steps 16-18

Step 16: Install the aFe POWER engine inlet adaptor onto the engine 15 ensure the retaining clip snaps into place all the way around.

Step 17: Install the supplied aFe POWER P/S reservoir bracket into the factory location for the power steering reservoir and secure it with the factory screw (16)

Step 18: Install the power steering reservoir onto the aFe POWER P/S bracket and secure with the supplied M6x1x10 screw and M6 washer (17)





Refer to Figure F for Steps 19-23

- Step 19: Install the aFe POWER cold side charge pipe into the vehicle by first connecting to the intercooler and then to the engine inlet adaptor (18) do not tighten the clamps yet.
- Step 20: Ensure the aFe POWER cold side charge pipe is not touching anything, then tighten all of the clamps.
- Step 21: Unclip the plastic clips securing the temperature sensor harness to the coolant hose. Reroute the harness so that it reaches the aFe POWER charge pipe and connect it to the sensor (19)
- Step 22: Reconnect the negative battery cables.
- Step 23: Install is now complete.



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