



advanced FLOW engineering

Instruction Manual P/N: 46-20079-B

BladeRunner – Charge Pipe Kit

Make: **Ford**

Model: **F250/350**

Year: **2008-2010**

Engine: **V8 – 6.4L(td)**



- 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 951-493-7100.
- 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.

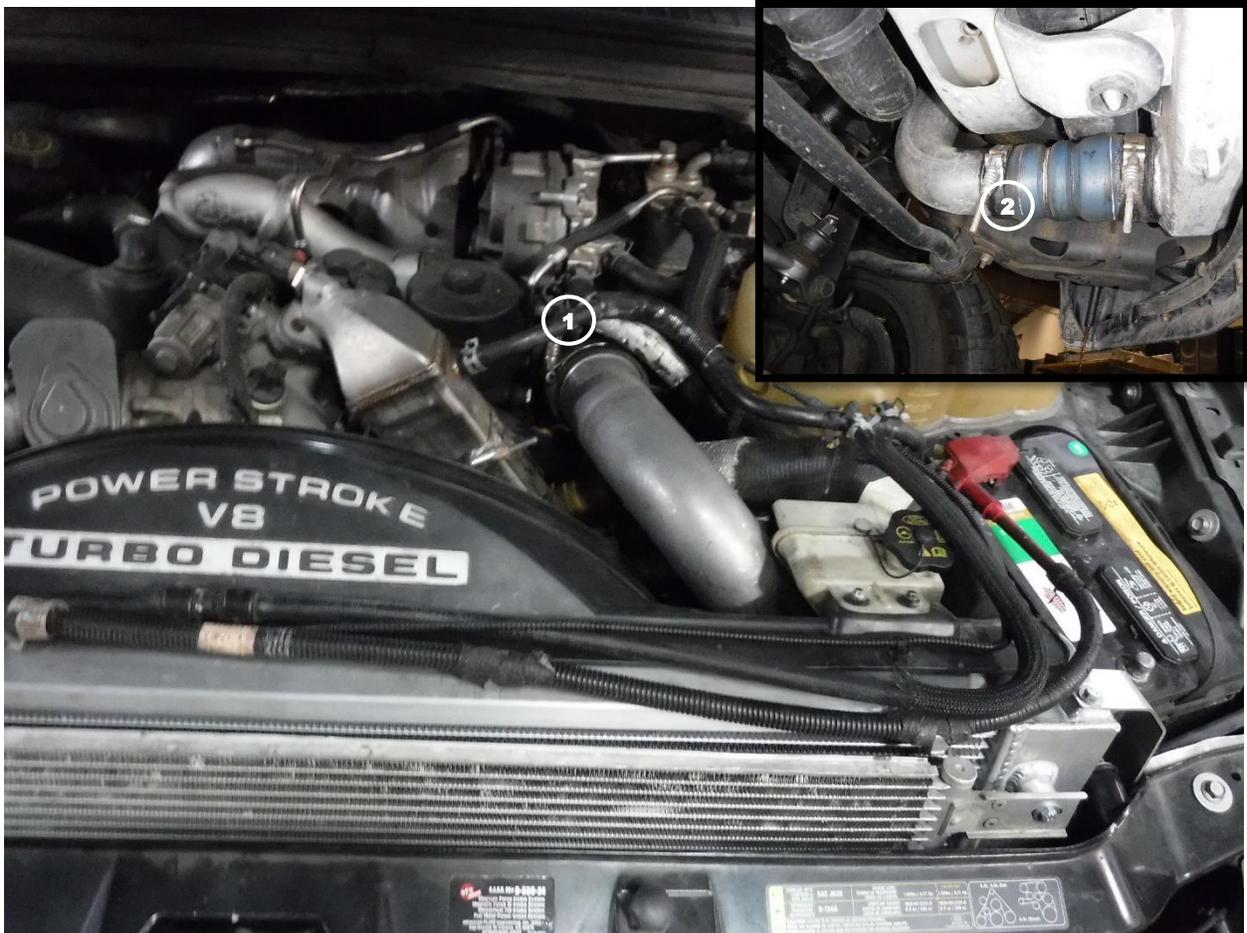
Label	Qty.	Description	Part Number
A	1	Tube, Hot Side: 46-20079-B	05-61119B
B	1	Coupling, Silicone Reducer (3-1/4" x 3") x 86Deg	05-61121
C	1	Coupling, Silicone Hump: 3"ID x 4-1/8"L w/ Int Bea	05-60229
D	3	Clamp, Spring Loaded T-Bolt: 3.25" Dia	03-50530
E	1	Clamp, Spring Loaded T-Bolt: 3.38"- 3.69" Dia	03-50376
F	1	Plug, Hex Hd Socket: 1/8" NPT (Zn Plt)	03-50029

Installation will require the following tools:

7mm socket 7/16" deep socket, 3/16" allen wrench, 6" extension, ratchet, pick, tube cutter, thread sealant, grease.

Note: Legal in California for use on race vehicles only. The use of this device on vehicles used on public streets or highways is strictly prohibited in California and others states that have adopted California emission regulations.





Note: it is recommended to remove the radiator from the vehicle in order to remove the factory hot side charge pipe for reuse later. The factory charge pipe can also be cut in half and removed from the vehicle if there are no plans for reusing it in the future.

1. Park vehicle on level ground and engage the parking brake.
2. Disconnect the negative battery cables.
3. Loosen the clamp securing the hot side charge pipe to the turbo outlet coupling ①
4. Disconnect the hot side charge pipe from the turbo outlet coupling.
5. Place a rag inside of the hot side charge pipe.
6. Loosen the clamp securing the hot side charge pipe to the intercooler inlet coupling ②
7. Disconnect the hot side charge pipe from the intercooler inlet coupling.
8. Place a rag inside of the hot side charge pipe.



9. Unclip the power steering line from the power steering reservoir ③
10. Remove the two (2) screws securing the power steering reservoir to the vehicle ④ and place the reservoir to the side.
11. Mark the tube in the area shown above ⑤ to be cut for removal.
12. Ensure all wires, hoses, reservoirs, etc. are moved out of the way.
13. Cut the tube at location marked.
14. Remove the tube from the vehicle.



15. Loosen the clamp securing the turbo outlet coupling to the turbo ⑥ and remove the coupling and clamp from the vehicle.
16. Loosen the clamp securing the intercooler coupling to the intercooler and remove the coupling and clamp from the vehicle.



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

17. If you are not using any aftermarket sensors, install the supplied 1/8" NPT plug (7) into the threaded fitting on the aFe hot side charge pipe.

Note: Be sure to thoroughly clean all oil residue off of the connections before installing any of the aFe couplings onto the vehicle

18. Install the supplied aFe silicone hump coupling, 3"ID x 4-1/8"L, (8) and two (2) of the supplied 3.25" spring-loaded T-Bolt clamps onto the turbo outlet, do not tighten the clamps yet.
19. Install the aFe hot side charge pipe (9) into the vehicle and connect it to the coupling, from the previous step. Ensure the bead on the inside of the coupling locks into place on the charge pipe.
20. Install the power steering reservoir pack into place (10).
21. Clip the power steering line back onto the reservoir.



22. Install one (1) of the 3.25" spring-loaded T-Bolt clamps and the supplied 3.38" spring-loaded T-Bolt clamp onto the supplied aFe silicone reducing coupling, 3-1/4" x 3"ID 86 Deg, do not tighten the clamps yet.

Note: Be sure to thoroughly clean all oil residue off of the connections before installing any of the aFe couplings onto the vehicle

23. Install the aFe silicone reducer coupling, 3-1/4" x 3"ID 86 Deg with clamps onto the aFe hot side charge pipe from underneath the vehicle, then connect the coupling to the intercooler (11) do not tighten the clamps yet.



24. Ensure the aFe hot side charge pipe is not touching anything.
25. Tighten all of the clamps.
26. Reconnect the negative battery cable.
27. Install is now complete.

Note: Be sure to check all connections after 50-100 miles.

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Warranty

General Terms:

- aFe warrants their products to be free from manufacturer’s defects due to workmanship and material.
- This warranty applies only to the original purchaser of the product and is non-transferrable.
- Proof of purchase of the aFe product is required for all warranty claims.
- Warranty is valid provided aFe instructions for installation and/or cleaning were properly followed.
- Proper maintenance with regular inspections of product is required to insure warranty coverage.
- Damage due to improper installation, abuse, unauthorized repair or alteration is not warranted.
- Incidental or consequential damages or cost, including installation and removal of part, incurred due to failure of aFe product is not covered under this warranty.
- All warranty is limited to the repair and/or replacement of the aFe part. To request Return Goods Authorization (“RGA”), email RGA@afepower.com or call (951)493-7100. Upon receipt of the RGA, you must return the product to the address provided in the RGA, freight prepaid and accompanied with a dated proof of purchase and the RGA. Upon receipt of the defective product and upon verification of proof of purchase, aFe will either repair or replace the defective product within a reasonable time, not to exceed thirty days.

<u>Product Category</u>	<u>P/N Prefix</u>	<u>Warranty duration</u>
Direct OE Replacement Filters	10, 11, 30, 31, 71, 73	Life of the vehicle
Racing Filters	18	1 year
Universal	21, 24, 72	2 years
Air Intake Systems	50, 51, 54, 55, 75	2 years
Exhaust Systems	49	2 years
Intercoolers & Intercooler Tubes	46-2	2 years
Intake Manifolds	46-1	2 years
Differential Cover	46-7	Life of the vehicle
Transmission Pans / Oil Pans	46-7	Life of the vehicle
Turbochargers	46-6	2 years
Exhaust Manifolds	46	2 years
Throttle Body Spacers	46-3	2 years
Fluid Filters	44	90 days
Pre-Filters	28	2 years
Heavy Duty OE Replacement	70	2 years
PowerSports OE Replacement	81,87	2 years
PowerSports Intake Systems	85	2 years

No other warranty expressed or implied applies nor is any person or advanced FLOW engineering authorized to assume any other warranty. Some States do not allow the exclusion or limitation of incidental or consequential damages or do not allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.



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