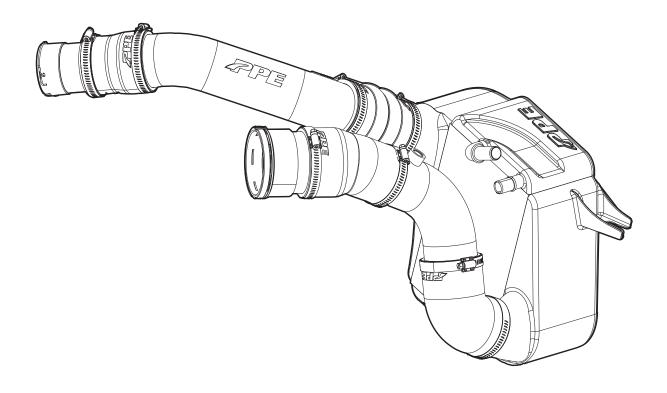


PPEpower.com



Intercooler Kit - Water to Air

2011-2023 Ford Super Duty 6.7L Power Stroke

(315045100), (315045112), (315045120), (315045122)

Installation Guide



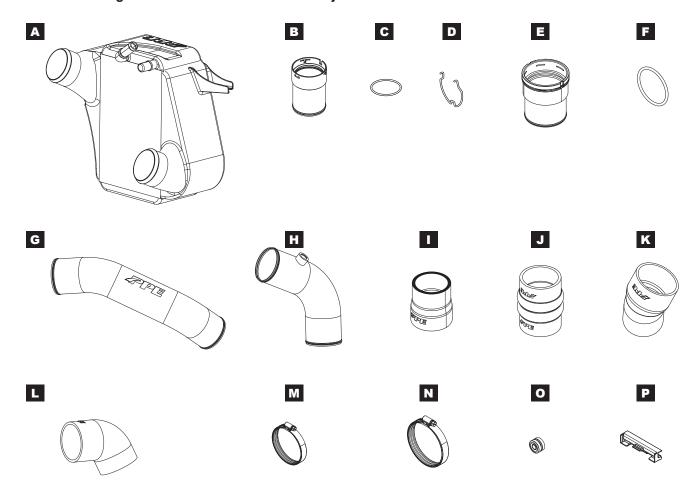
NOTE:

It is not legal in California to install the product on vehicles with the following Test Groups or Engine Families: BFMXH06.7A24, CFMXH06.7A24, DFMXH06.7A24, FFMXH06.7A24, GFMXH06.7A24, GFMXH06.7P4B, HFMXH06.7P4B, JFMXH06.7P4B, KFMXH06.7P4B, LFMXH06.7P4B, MFMXH06.7P4B, NFMXH06.7P4B, PFMXH06.7P4B.

The product is only legal in California to be installed on vehicles with 8,501 to 14,000 pounds gross vehicle weight rating (GVWR).

The Test Group or Engine Family can be found on the Vehicle Emission Control Information label located under the hood.

The GVWR rating can be found on the driver door jamb.



CONTENTS:

- A (1) Intercooler
- B (1) Aluminum Turbo Adapter
- C (1) O-Ring for Turbo Adapter
- D (1) Clip for Turbo Adapter
- E (1) Aluminum Throttle Body Adapter
- F (1) Big O-Ring for Throttle Body Adapter
- G (1) Hot Side Pipe
- H (1) Cold Side Pipe

- I (1) Turbo Coupler
- J (1) Inlet Coupler
- K (1) Throttle Body Coupler
- L (1) Outlet-Coupler
- M (7) Constant Tension W-Clamp 65-89
- N (1) Constant Tension W-Clamp 78-102
- O (1) Rubber Grommet with Aluminum Insert
- P (1) Rubber Bushing-Rear Intercooler



INSTALLATION:

Step 1: Vehicle off and cool. Disconnect both batteries if equipped.

Step 2: On the driver side, remove the battery by disconnecting the terminals and hold down bracket. **(Fig.1)**

Step 3: Drain the coolant by removing the cap from the reservoir and locating the drain petcock on the lower driver side of the radiator. **(Fig.2)**

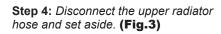




Fig.1



Fig.2



Fig.3



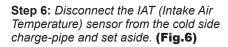
Step 5: Remove the hot charge pipe by disconnecting the retaining clip at the turbo, and the clamp from the factory intercooler. **(Fig.4, 5)**



Fig.4



Fig.5



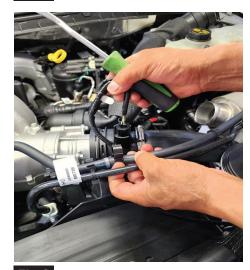


Fig.6

Step 7: Remove the cold charge pipe by disconnecting the retaining clip from the throttle body and the clamp from the factory intercooler. **(Fig.7,8)**



Fig.7



Fig.8



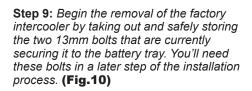
Step 8: Remove the coolant lines from the factory intercooler. **(Fig.9)**

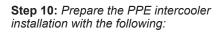


Fig.9



Fig.10





Install the supplied rubber grommet: (Fig.11)

Install the supplied rubber bushing: **P** (**Fig.12**)

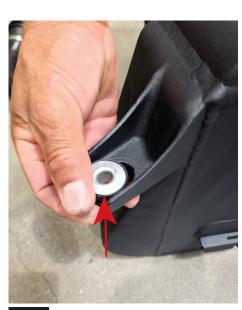


Fig.11



Fia.12



Step 10: Continued:

Transfer the U-nut: (Fig.13).

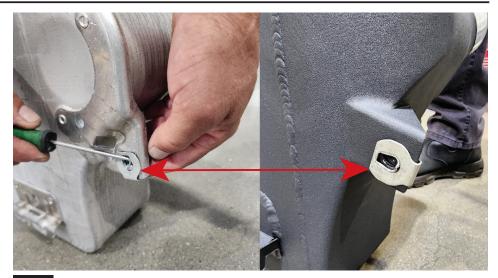


Fig.13







Fig.15



Fia.16

Step 11: Carefully position the PPE intercooler, making sure the rubber bushing is securely in place on the support bracket located behind the battery tray (Fig.14). Reattach and tighten the intercooler using the two factory 13mm bolts to the battery tray. (Fig.15, 16)



Step 12: Begin the hot charge pipe installation by ensuring that the clip **D** is securely attached to the turbo adapter **B** Apply a thin layer of silicone lubricant to the O-ring **C**, (**Fig.17**) and then gently slide the adapter onto the turbo (**Fig.18**).

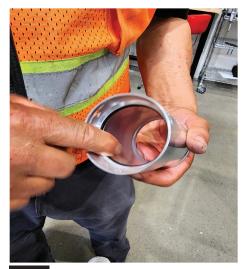


Fig.17



Fig.18

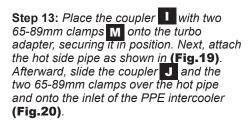




Fig.19



Fig.20

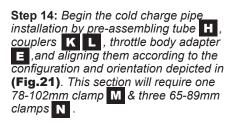




Fig.21



Step 15: Transfer the factory throttle body adapter clip over to the PPE adapter along with installing the supplied O-ring (Fig.22).then apply a thin layer of silicone lubricant to the O-ring.



Fig.22

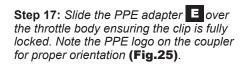
Step 16: Lower the cold side tube assembly until the coupler is fully seated on the PPE intercooler outlet **(Fig.23,24)**.

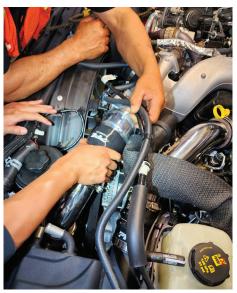


Fig.23



Fig.24





Fia.25



Step 18: Carefully adjust the positioning of couplers and charge pipes to achieve optimal fitment, ensuring there is no interference with surrounding components. Once aligned correctly, securely tighten all clamps.

Step 19: Install the IAT (Intake Air Temperature) sensor **(Fig.26)**.

Step 20: Reconnect the coolant lines to the PPE intercooler **(Fig.27)**.

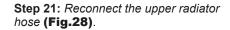




Fig.26



Fig.27



Fia.28



Step 22: Reinstall and connect the battery along with the hold down bracket.

Step 23: Fill the system with the manufacturer recommended coolant.

Step 24: Place the supplied CARB E.O. label on a clean, visible location under the hood



Fig.29

Installation Complete

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DISCLAIMER OF LIABILITY

Performance products can increase horsepower above and beyond factory specifications. Additional horsepower creates more stress on the drive-train components, which could result in drive-train failure

Note regarding emissions-related, non-E.O.-legal products: THESE PRODUCTS ARE LEGAL IN CALIFORNIA ONLY FOR RACING VEHICLES THAT MAY NEVER BE USED, OR REGISTERED OR LICENSED FOR HIGHWAY OR OFF-ROAD USE.

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