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# INSTALL INSTRUCTIONS FOR 83-1000

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## BEFORE YOU START

**VEHICLE FITMENT:** 2011-2016 6.7L Powerstroke, Ford, F250/F350/F450

**DEVICE NAME:** INTERCOOLER PIPE

This Charge Air Cooler Pipe Kit may not fit with the following aftermarket parts installed:

- Aftermarket Intercooler
- Aftermarket Radiator and/or Coolant Hoses
- Aftermarket Fan or Fan Shroud
- Aftermarket Power Steering Fluid Reservoir
- Aftermarket Hood

When removing any turbocharger air intake system components, make sure to cover any open ports to prevent any debris from entering the system. All components need to be inspected and cleaned (if necessary) prior to assembly and installation.

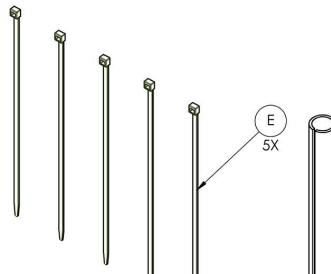
- Charge air cooler T-Bolt Hose Clamps making sure they are tight and secure.
- All electrical connections and wire harnesses moved during the installation of the charge air cooler pipe/hose and making sure they are secure and away from any hot or moving components.
- Check for any signs of abrasion or wear and tear on the charge air cooler hose, coolant hoses, power steering reservoir, power steering hoses, and electrical harnesses near the charge air cooler pipe/hose and repair/replace as necessary.

## REQUIRED TOOLS

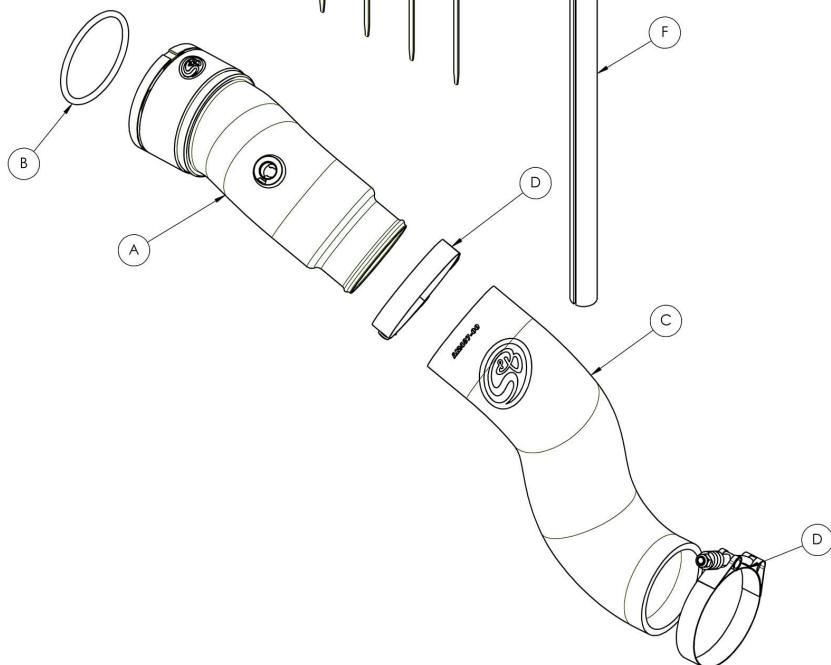
- 8mm Socket and Wrench
- 11mm Deep Socket
- 10" Socket Extension or 4" + 6" Socket Extensions
- Panel Popper
- Pick
- Small Flat Blade Screwdriver
- Wire Cutters
- Pliers
- Torque Wrench, 75 in-lb setting

**Note:** Approximate Install Time: 1 Hr 00 Mins for Kit Installation.

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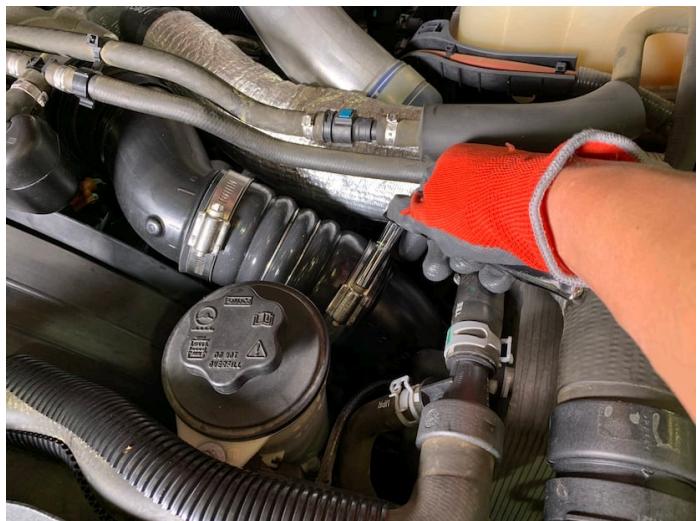


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
A	AL3000-00	CAC Outlet Hard Pipe	1
B	AI2492-00	O-Ring, FKM	1
C	AI2487-00	CAC Outlet Tube	1
D	AG1042-00	T-Bolt Hose Clamp, Spring Loaded, 85.7-93.7mm	2
E	AI1750-00	Cable Tie, 9" Long	5
F	AI2633-01	Corrugated Split Loom Abrasion Resistant Sleeve	1



## STEP 1

Loosen the upper hose clamp of the Charge Air Cooler (CAC) outlet hose. Loosen the second one closest to the Intercooler.



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## STEP 2

Using a Pick, locate the split in the Spring Clip and carefully remove the Spring Clip from the upper plastic CAC pipe.



## STEP 3

Working your way around, place the Spring Clip over the plastic and on to the throttle assembly for now.

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## STEP 4

Slide the upper plastic CAC pipe off the throttle assembly and remove it from the vehicle.

## STEP 4 (IMAGE 2)

## STEP 5

Remove the Spring Clip from the throttle assembly and save it for use in Step 13.

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## STEP 6

Remove the electrical connector from the Air Temperature Sensor located on the lower plastic CAC pipe. Depress the clip and pull it off.

## STEP 7

Remove the Temp Sensor harness retainer from the lower plastic CAC pipe.

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## STEP 8

Loosen the lower hose clamp of the CAC outlet hose.

## STEP 9

Slide the hose off the intercooler outlet and remove the lower plastic CAC pipe from the vehicle.

## STEP 10

Remove the Temp Sensor from the lower plastic CAC pipe. Use a Small Flat Blade Screwdriver to gently lift the Temp Sensor tab above the locking ramp, then twist (counter clockwise) and pull out the Temp Sensor.

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## STEP 10 (IMAGE 2)

## STEP 11

Insert the Temp Sensor into the CAC Hard Pipe (A) with the Temp Sensor tab resting on top of the boss and in front of the locking ramp as shown below.

## STEP 12

Twist the Temp Sensor clockwise until the tab goes

Cookie Preferences  is locked by the locking ramp.

## STEP 13

Install the Spring Clip from Step 5 into the clip groove on the CAC Hard Pipe (A).

## STEP 13 (IMAGE 2)

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## STEP 14

Stretch the O-Ring (B) by hand while adding a thin coat of clean diesel engine oil to the O-Ring. Work your way around the entire O-Ring, gently stretching it as you go. After stretching, verify that the outside diameter of the O-Ring touches all around the inside of the o-ring groove of the CAC Hard Pipe (A) as shown below. If the O-Ring feels loose in the o-ring groove, gently stretch the O-Ring by hand once more.

## STEP 14 (IMAGE 2)

## STEP 15

Cookie Preferences  coat of clean diesel engine oil around the outside diameter of the throttle assembly.

## STEP 16

Install the CAC Hard Pipe (A) onto the throttle assembly until the Spring Clip snaps into place on the throttle assembly. Rotate the CAC Outlet Hard Pipe so that the hose end is pointed upwards as shown.

## STEP 17

Remove the screw holding the power steering reservoir and set the screw aside.

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## STEP 18

Lift the power steering reservoir from the support slot and carefully leave it off to the side while keeping it upright. This will give you more room when you install the CAC Silicone Hose (C).

## STEP 19

Pull and remove the stock split loom sleeve from the larger diameter power steering reservoir hose.

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## STEP 20

Install the Split Loom Sleeve (F) over the large diameter power steering reservoir hose as shown.

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## STEP 21

Make sure the Split Loom Sleeve (F) is up against the hose clamp of the power steering reservoir hose and that the slit is facing the fan shroud as shown. Also rotate the reservoir hose clamp so that the prongs are also pointing towards the fan shroud. To reposition the reservoir hose clamp, simply squeeze the prongs with pliers to loosen, rotate the clamp to position, and then release the clamp prongs.

## STEP 22

Move the Temp Sensor electrical harness away from the intercooler and temporarily drape it across the top of the power steering reservoir.

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## STEP 23

Install the T-Bolt Hose Clamp (D) onto both ends of the CAC Silicone Hose (C). On the end without the logo, have the spring and nut pointed up towards you as shown below. On the end with the logo, install the T-bolt Hose Clamp (D) with the spring and nut underneath and pointed towards you as shown below. Leave both T-Bolt Hose Clamps loose for now.

## STEP 24

Install the CAC Silicone Hose (C) with the T-Bolt Hose Clamps into the vehicle with the logo end on top and the other end attaching to the Intercooler outlet. Leave the T-Bolt Hose Clamps loose at this time.

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## STEP 25

The lower T-Bolt Hose Clamp (D) should be positioned so that the spring and nut are pointed towards you and accessible from above as shown below.

## STEP 26

The upper T-Bolt Hose Clamp (D), should be positioned so that the spring and nut are underneath and pointed towards the power steering reservoir as shown.

## STEP 27

Rotate the CAC Hard Pipe (A) and pull the CAC Silicone Hose (C) onto the end of the Hard Pipe. As you continue to rotate the Hard Pipe, the

Cookie Preferences ose will slip over  
the Hard Pipe into position as  
shown.

## **STEP 27 (IMAGE 2)**

## **STEP 27 (IMAGE 3)**

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## STEP 27 (IMAGE 4)

## STEP 27 (IMAGE 5)

## STEP 28

Put the power steering reservoir back in the support slot and check for clearances all around the CAC Hard Pipe (A) and CAC Silicone Hose (C). Rotate the CAC Hard Pipe to adjust the clearances making sure the CAC Hard Pipe and Silicone Hose are far enough away from the power steering reservoir and other

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ng lines, hoses, and  
clamps.

## STEP 29

Once you have everything positioned properly, make sure the intercooler outlet is fully inserted into the CAC Silicone Hose (C) and then tighten and torque the T-Bolt Hose Clamp (D) to 75 in-lb.

## STEP 30

After tightening the lower T-Bolt Hose Clamp (D), verify that the CAC Silicone Hose (C) is up against the intercooler, with the intercooler outlet fully inserted, and the T-Bolt Hose

Cookie Preferences about 1/ 8" from the end of the Silicone Hose as shown below.

## STEP 31

Make sure the CAC Hard Pipe (A) is fully inserted into the CAC Silicone Hose (C), and that the T-Bolt Hose Clamp (D) is positioned so that the spring and nut are not close to touching anything. Tighten and torque the T-Bolt Hose Clamp to 75 in-lb.

## STEP 32

After tightening the upper T-Bolt Hose Clamp (D), verify that the CAC Hard Pipe (A) is fully inserted into CAC Silicone Hose (C) and the T-

Cookie Preferences   Clamp (D) about 1/  
8" from the end of the  
Silicone Hose as shown  
below.

## STEP 33

Replace the power steering  
reservoir support screw and  
tighten.

## STEP 34

Reconnect the Temp Sensor  
to the harness.

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## STEP 35

Secure the loose Temp Sensor harness with Cable Ties (E) to prevent the harness from rubbing during vehicle movement and vibration. Cut off the excess cable tie with a Wire Cutter.

## STEP 36

Inspect your installation, make sure the kit is properly positioned with clearances around all the parts to prevent wear or damage to any parts during vehicle operation, movement, and vibration. Verify both T-Bolt Hose Clamps are tight and secured. Keep all stock parts in case you would ever need to reinstall the stock intake assembly. Affix the ID label near the CAC Outlet Kit. If you are an installer, give the owner the QR code for the Installation Instructions so that he/she is aware of the Maintenance and Operation procedures given in the beginning of the Instructions.

[Cookie Preferences](#)  [Not visible surface](#)

under the hood and affix the enclosed CARB EO sticker for SMOG purposes. The installation is now complete.

## **CARB EO LABEL**

Please affix the included CARB-approved EO label in an area under the hood. We recommend placing it on the radiator shroud, or the underside of the vehicle's hood near the S&B product.

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