

INSTALLATION GUIDE



Intake Elbows

1999.5–2003 Ford 7.3L Powerstroke





DISCLAIMER

1) By installing this product onto your vehicle, you assume all risk and liability associated with its use.

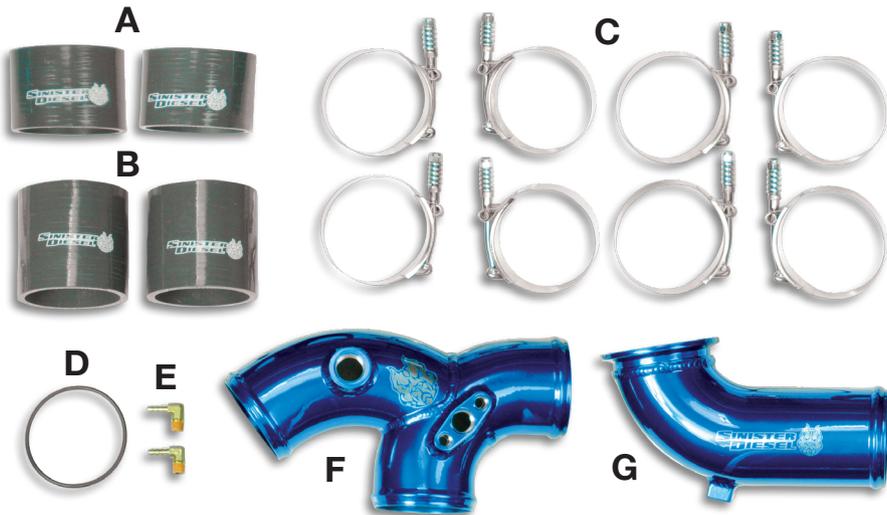
2) It is your responsibility to make sure your vehicle complies with all federal, state, and local emissions laws. Federal and many state and local laws prohibit the removal, modification or rendering inoperative of any part of the design affecting emissions or safety on motor vehicles used on a public street or highway. Violation may result in a fine of up to \$32,500 per vehicle (or possibly higher depending on changes in the law). All civil penalties and fines for removing your vehicle's emissions equipment are the sole responsibility of the end user.

3) Due to its high performance nature, this product may void vehicle manufacturer's warranty.

4) Sinister Mfg Company, Inc. is not responsible for misuse of its products. By installing this product, you release Sinister Mfg Company, Inc. of any and all liability associated with its use.

5) Depending on where you live, restrictions may apply. Check all applicable laws before installing or using!

6) The purchaser and end user releases, indemnifies, discharges and holds harmless Sinister Mfg Company, Inc. from any and all claims, damages, causes of action, injuries, or expenses resulting from or relating to the use or installation of this product that is in violation of the terms and conditions on this page, the product disclaimer, and/or the product installation instructions. Sinister Mfg Company, Inc. will not be liable for any direct, indirect, consequential, punitive, statutory, or incidental damages or fines caused by the use or installation of this product.



PART:	DESCRIPTION:	QTY:
A	Boots (Intake manifold - lower)	2
B	Boots (Intercooler - upper)	2
C	Boot Clamps	8
D	O-Ring	1
E	NPT fittings	2
F	Cold-Side Y-Elbow	1
G	Hot-Side Elbow	1

IMPORTANT: READ ALL INSTRUCTIONS PRIOR TO INSTALL. Prior to installation, please compare the parts that you have received with the bill of materials provided on this page to assure that you have all the parts necessary for the installation.



CAUTION !!! Never work on a hot vehicle. Serious injury in the form of burns can result if the vehicle has been in use. Allow vehicle to cool prior to installation. Always wear eye protection when working on or under any vehicle.

IMPORTANT: With a used vehicle we suggest using a penetrating spray lubricant to be applied liberally to all fasteners. When doing so allow a significant amount of time for the chemical to lubricate the threads before attempting to disassemble. Also, be very cautious with the intake system open. Make sure to keep clear from any tools or debris.

1 Disconnect both negative terminals from batteries. **DO NOT WORK ON A HOT ENGINE.**



IMAGE 1

2 Remove engine cover. (Design may vary depending on year) (Image 1)

3 Using an 11mm deep sockets, remove the hot side intercooler clamps and boot. (Image 2)

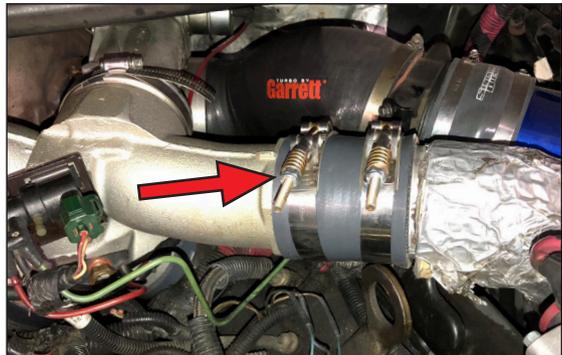


IMAGE 2

4 Using an 11mm deep socket, remove the cold side intercooler clamps and boot. (Image 4 & 5)



IMAGE 3

5 Using a 10mm socket, remove the boost/vacuum bulkhead from the factory intake plenum. It is recommended to disconnect the plastic lines from the rubber connectors, be careful, these are extremely brittle. (Image 6)

6 Using a 10mm socket disconnect the intake air heater wiring. (Image 6)

7 There are two more boost lines and an IAT sensor that needs to be disconnected from the plenum. (Image 7)

8 Using an 8mm socket remove the worm clamp that connects the plenum to the turbo outlet. (Image 8)

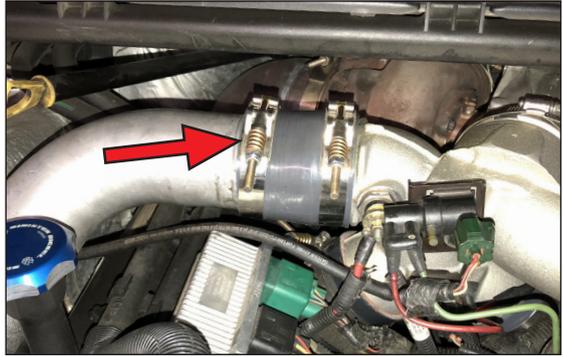


IMAGE 4



IMAGE 5

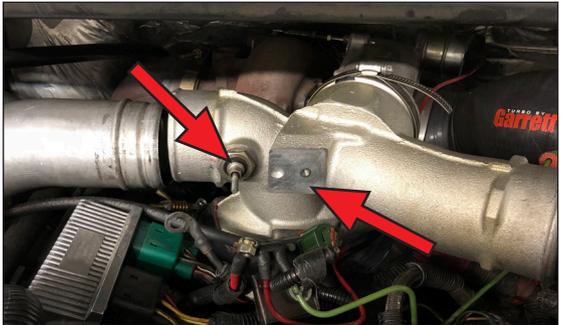


IMAGE 6

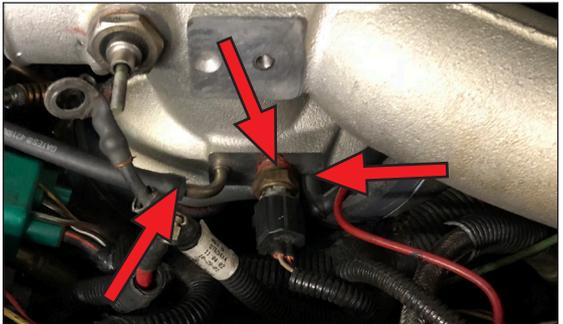


IMAGE 7

9 Using an 11mm deep socket with extension, loosen the two hose clamps that were securing the plenum to the two lower boots. (Boots shown with plenum removed) (Image 9)



IMAGE 8

10 If purchased kit with boots, remove the two boots and clamps going to the intake runners and discard. (Image 10)



IMAGE 9

11 Install brass 90's and orientate them as shown. (Image 11)

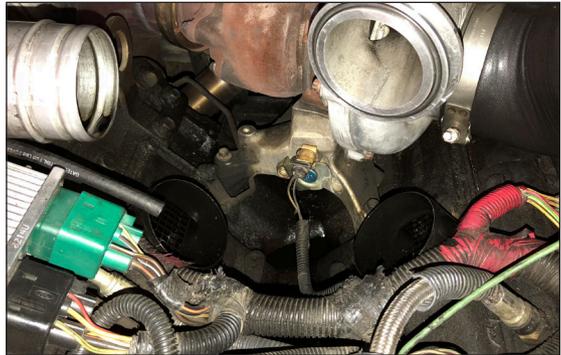


IMAGE 10

12 Install IAT Sensor as shown. (Image 12)

13 Install Intake heater as shown. (Image 13)



IMAGE 11

- 14** If you purchased kit with boots, install new boots onto intake runners with clamps. (Image 14)



IMAGE 12

- 15** Loosly install new "Y-Bridge" with new clamps (If applicable.) Once aligned, tighten all four clamps holding intake bridge in place. (Image 15)



IMAGE 13

- 16** Reinstall boost lines and IAT sensor plug. (Image 16)



IMAGE 14



IMAGE 15

17 Reinstall Intake grid heater wiring. (Image 17)



IMAGE 16

18 Install cold side intercooler boot and clamps. (Use new parts if purchased kit with boots and clamps) (Image 18)



IMAGE 17

19 Install new intake hot side elbow, using new o-ring. Make sure to properly align to intercooler pipe. (Image 19)



IMAGE 18

20 Install hot side intercooler boot and clamps. Use new parts if purchased with boots and clamps. (Image 20)



IMAGE 19

21 Reinstall boost line distribution block. (Image 21)

22 Verify all boots and clamps are tight, double check all wiring and boost lines.

Reconnect batteries.

Install is complete.



IMAGE 20



IMAGE 21





SD-INTEL-7.3
SD-INTEL-7.3-BK

2018



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