



BD BOOST SCOOP INTAKE KIT
2007-2008 Ford Powerstroke 6.4L

P/N# 1041080

PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLATION

BD Engine Brake Inc.
 Plant Address: 33541 MacLure Rd, Abbotsford, BC, Canada V2S 7W2
 U.S. Shipping Address: 88-446 Harrison St, Sumas, WA 98295 U.S. Mailing Address: P.O. Box 231, Sumas, WA 98295
 Phone: 604-853-6096 | Fax: 604-853-8749 | Internet: www.bd-power.com

KIT CONTENTS:

Please check to make sure that you have all the parts listed in this kit **before** you start the disassembly of your truck.

Ford Boost Scoop Intake Kit				
1401080CF	1401081	1401082D		7023
				
<i>Inlet</i>	<i>Boot</i>	<i>Tube</i>		<i>Filter</i>
Qty: 1	Qty: 1	Qty: 1		Qty: 1
1401083	1401086	1401085	2805	
				
<i>Clamp</i>	<i>Support Bracket</i>	<i>Locking Clip</i>	<i>Filter Cleaning Kit</i>	
Qty: 2	Qty: 1	Qty: 5	Qty: 1	
1100110	1100111	1100112	1401087	1401088
				
<i>1/4" Bolt</i>	<i>1/4" Flat Washer</i>	<i>1/4" Lock Washer</i>	<i>#7 Drill Bit</i>	<i>1/4" x 20 Tap</i>
Qty: 2	Qty: 2	Qty: 2	Qty: 1	Qty: 1

UPGRADE OPTIONS

Description

BD 6.4 High Flow Intercooler
 BD High Flow Exhaust
 BD Ultra X Tuner

Part

1042710
 Call for Part Number
 1054871

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Installation

Disconnect the negative terminals on both of the vehicle's batteries, and then disconnect the positive terminals.

Before starting the installation, you will need to remove the passenger's side front wheel. Be sure the vehicle is secure when lifted.

1. Open the hood, and locate the passenger's side battery. Remove the battery from the vehicle. Be careful not to short the wires out.



2. Locate the stock air box on the passenger side of the vehicle.
3. Disconnect the MAF electrical plug and the filter minder plug.



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4. Loosen the gear clamp securing the air box to the turbo inlet tube.

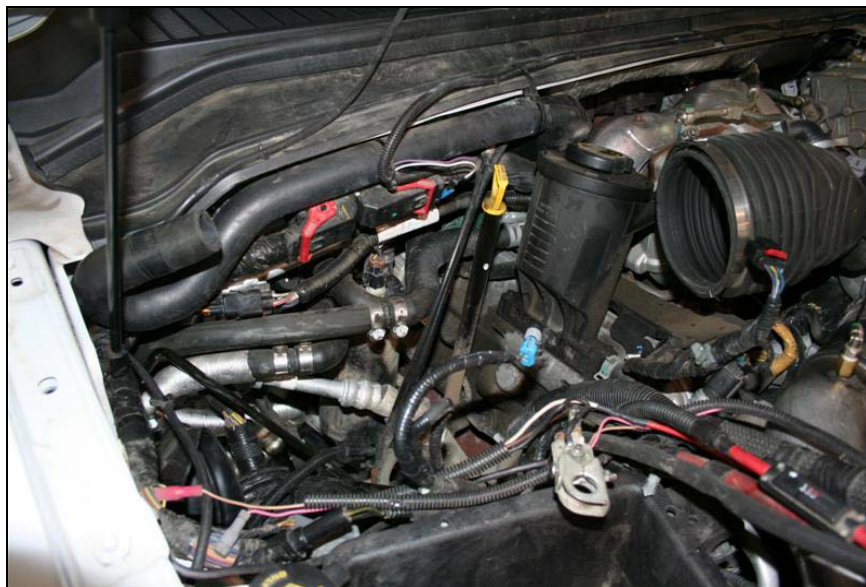


5. Remove the airbox lid, as well as the secondary warm air inlet from the lid.

Remove the factory paper filter.



6. Remove the airbox from the vehicle.



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- 7. With the vehicle secure and the passenger's side wheel removed, you can now remove the wheel well liner.



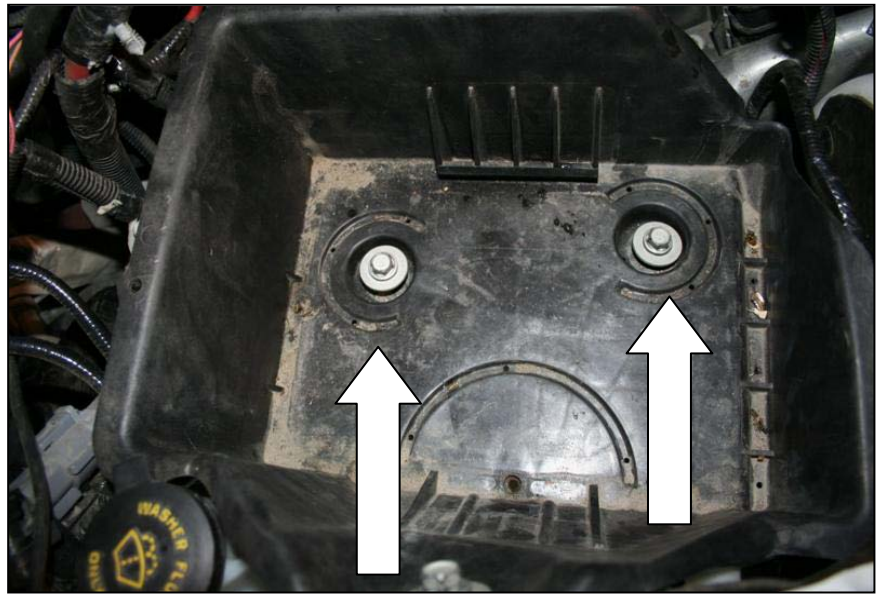
- 8. Remove the locking clips that secure the liner to the wheel well.



You will need to access the factory airbox inlet ducting.



9. Remove the two bolts securing the battery box down.

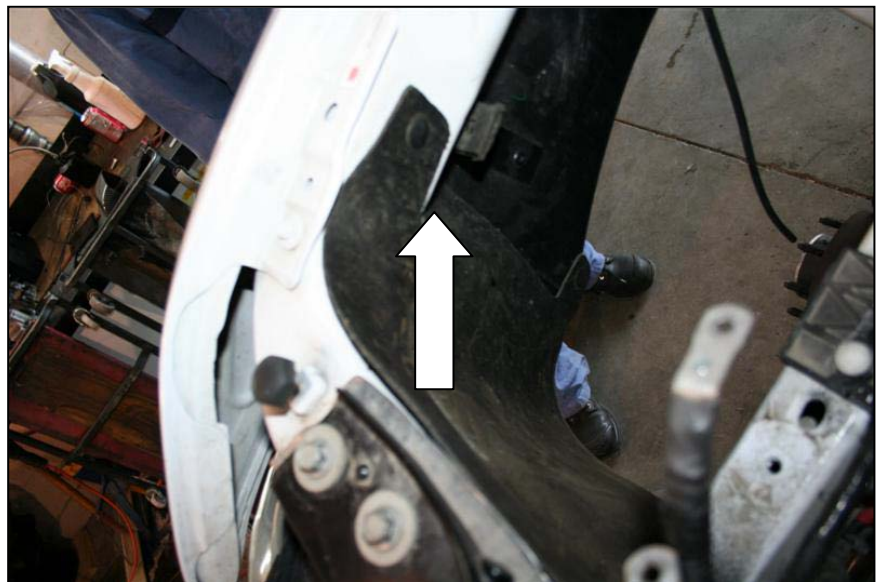


10. Remove the windshield washer fluid reservoir/battery box. There will be an electrical connector and fluid line at the bottom of the tank that will need to be disconnected.

Washer fluid will leak out once this has been disconnected.



11. You will need to displace or move the rubber sealing material to access the inlet duct.



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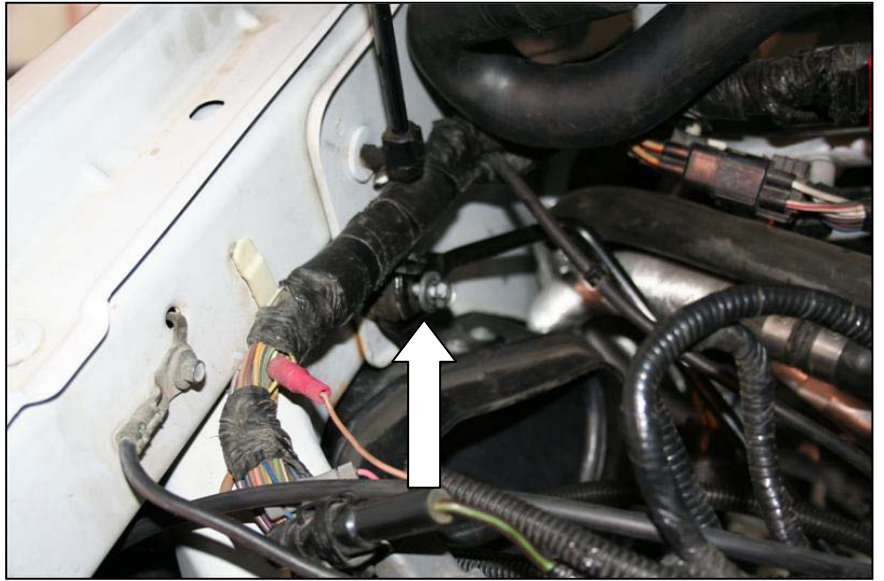
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12. Remove the bolt securing the factory inlet duct to the inside of the engine compartment.

Keep this bolt as once the inlet duct is removed, you will need to re-install it.



13. Inside the passenger's side wheel well you will need to release the locking clip to release the inlet duct.

You should now be able to remove the inlet ducting.



14. With the factory air inlet out, you can now re-install the battery box / windshield washer fluid reservoir.

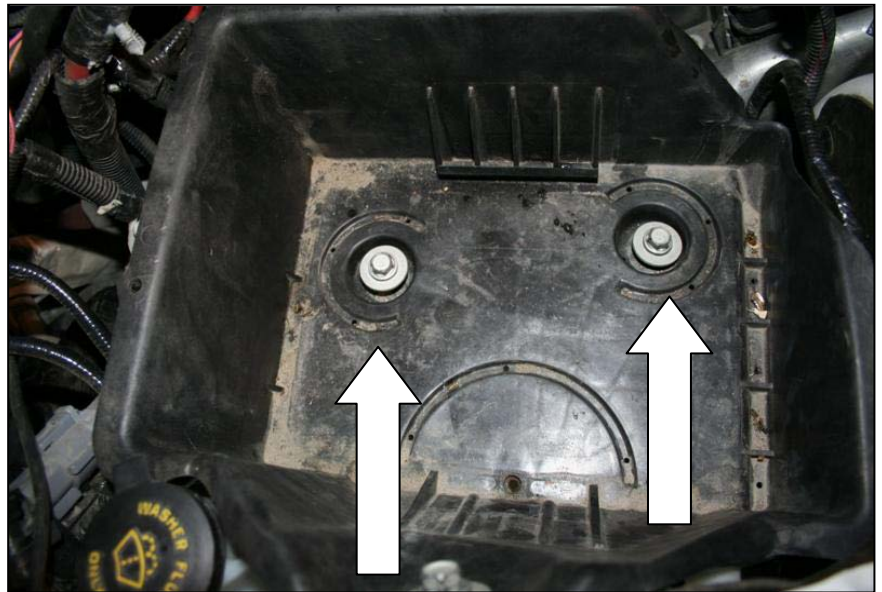


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15. Remove the side grill/vent from the passenger's side quarter panel.

To do this, access the rear of the locking clips from the inside of the fender well. You can compress the clips with pliers and push them out. This should release the outer grill. Note that there are two pieces.

Although new clips have been provided, you can re-use the factory Ford clips as they are of higher quality.



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16. You can now add the bottom section of the airbox back into the vehicle. Do not attach the hose clamps yet as you will need some flexibility.



view from wheel well

17. Insert the two gear clamps (1401083) on the rubber boot (1401082) and slide the rubber boot onto the inlet of the factory airbox. Make sure that the boot is aligned and fully seated on the airbox inlet.

Keep everything loose as the placement may need to be adjusted.



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18. Attach the support bracket (1401086) using the supplied 1/4" bolts (1100110), flat washer (1100111) and lock washer (1100112) to the plastic intake tube (1401082D).

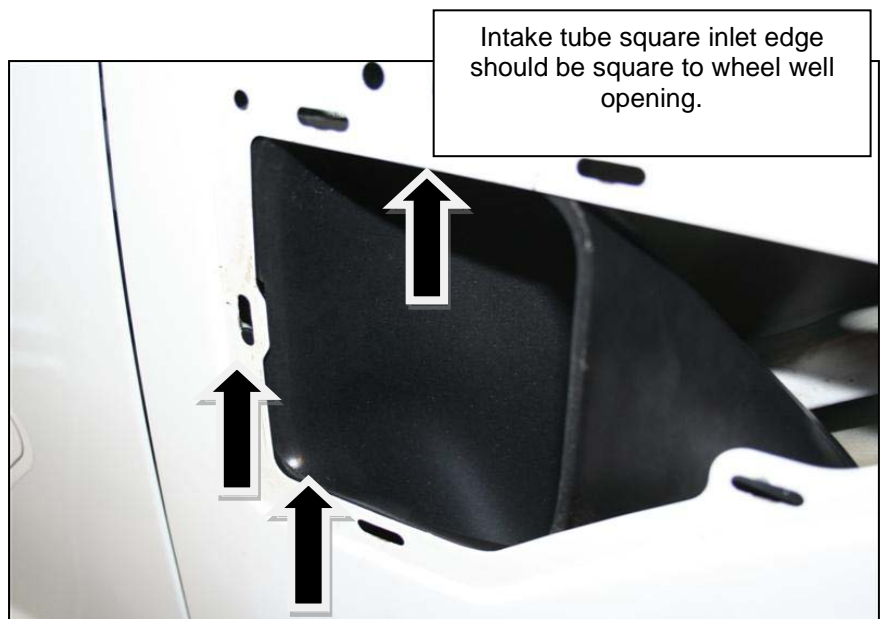
Tighten them finger-tight.



19. Place the intake tube assembly up inside the wheel well. Slide the oval end into the rubber boot that is connected to the factory airbox. Sometimes it helps if someone helps you hold the airbox down in place.



Once the oval end has been inserted into the boot, push the rear of the intake tube up towards the fender opening. Square up the inlet to the fender opening to expose the complete inlet.



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20. With the inlet tube square to the fender opening, tighten the 2 gear clamps securing the location of the inlet tube.



21. With the intake tube still square to the fender opening, you will need to locate the mounting bracket.

To do this, have someone hold the intake tube in place, orientating the “L” bracket onto the intake tube until it is in position (fully flush against the square tube body support).

Using a sharpie, you can mark the drill location, or, you can drill the hole while the bracket is in place.



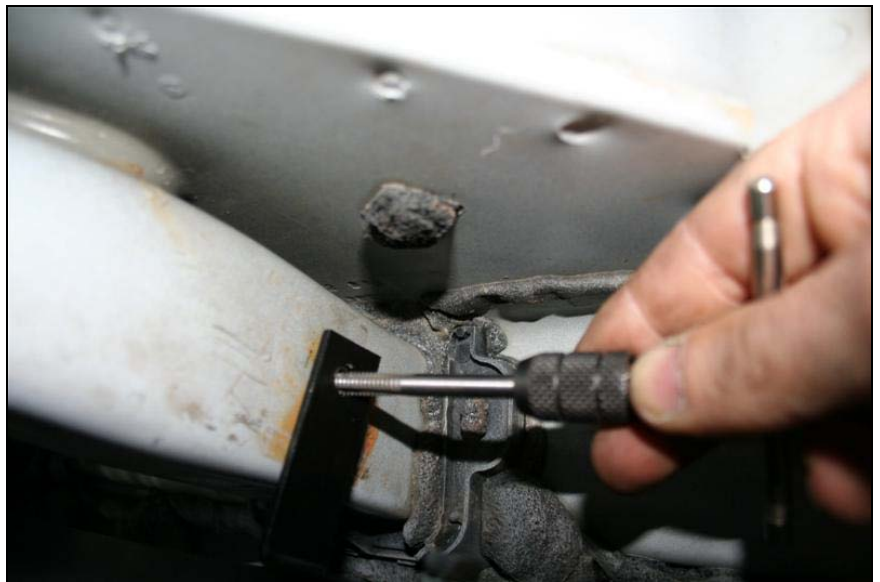
Note that there is some adjustability as the one hole on the “L” bracket is oblong.

22. Use the provided #7 drill bit (1401087) to drill through the first layer of the square support tubing. You may need a right angled drill to get into the tight corner.



23. Tap the newly created hole with the provided 1/4" x 20 Tap (1401088). Be sure to use cutting lubrication. If you do not have cutting fluid available, use WD40.

If you do not have a tap holder, a small crescent wrench will do but it will be more difficult to use.



24. Once the hole is tapped, you can insert the 1/4" bolt, flat washer and lock washer provided to secure the "L" bracket.

Tighten both 1/4" bolts (inlet tube / frame support) with a wrench.

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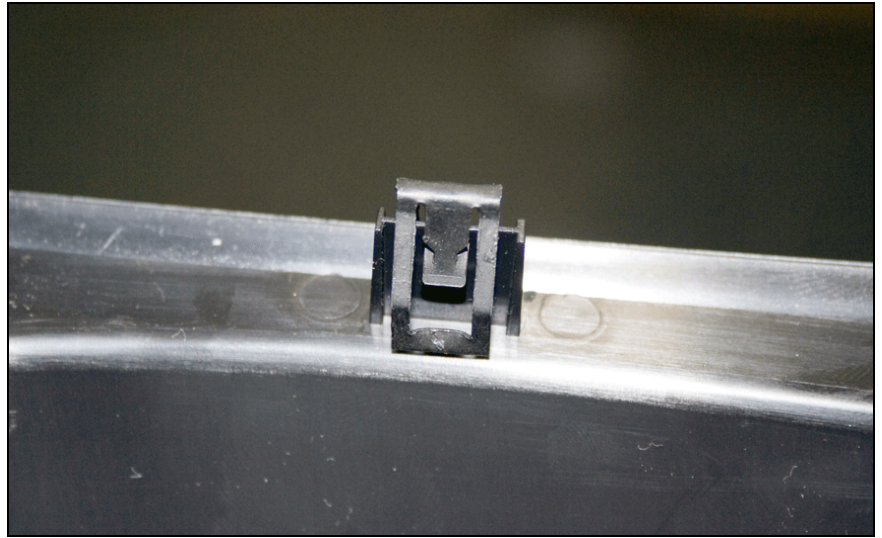
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25. Remove the locking clips off of the Ford fender grill and transfer them to the Boost Scoop (1401080CF). Do not pull the clips off of the F350 name plate as this will be installed over top of the scoop.

Be careful pulling the clips off as they may be damaged. A side-to-side motion works the best. Try to re-use the factory Ford clips. If you damage them, we have provided 5 extra locking clips.



26. With the locking clips installed, press the boost scoop into the fender opening. The clips should secure the boost scoop. You can then press the F350 name plate on afterwards. The locking clips should secure the name plate.



27. Now that all the tubing is installed, you can fully install the airbox and insert the provided high flow filter (7023). Remember to re-connect and re-tighten the two hose clamps, and reconnect the MAF sensor and Filter Minder electrical connections.



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28. Re-install the filter cover and passenger side battery. You can now re-connect all the battery connections.



The boost scoop is made from a high strength plastic with high impact strength. To seal the carbon fiber look are 3 layers of UV resistant clear coat. Under everyday driving and normal wear and tear, this unit should last as long as the truck.

If you drive the truck in adverse weather conditions (i.e. hurricanes, through rivers, mud bogs, snow banks, dust storm.....) you may ingest foreign debris into the system. Although there is a drain in the bottom of the inlet scoop be sure to check the system regularly.

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