

## **6.7L Dodge Cummins Intake Horn Instruction Manual**

<b>P/N# 1041560</b>	2007.5-2009 6.7L Intake Horn
<b>P/N# 1041561</b>	2010-2012 6.7L Intake Horn
<b>P/N# 1041566</b>	2013-2016 6.7L Intake Horn

**PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLATION**

**UNLESS AN EO# IS LISTED, THIS PRODUCT IS LEGAL IN CALIFORNIA FOR  
RACING VEHICLES ONLY, WHICH MAY NEVER BE USED UPON A HIGHWAY.**

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](http://www.bd-power.com)

# K I T C O N T E N T S :

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

## **1041560 - Kit Contents**

1401560	1401565P	68024672AB	1401561		
					
<i>6.7L Intake Horn</i>	<i>6.7L Pipe</i>	<i>Gasket</i>	<i>Bracket</i>		
<b>Qty: 1</b>	<b>Qty: 1</b>	<b>Qty: 1</b>	<b>Qty: 1</b>		
1401562	1405211	1405212	1405213		
					
<i>Boot 3.5"-4"</i>	<i>3-3.38 Clamps</i>	<i>3.56-3.91 Clamps</i>	<i>3.89-4.24 Clamps</i>		
<b>Qty: 1</b>	<b>Qty: 1</b>	<b>Qty: 3</b>	<b>Qty: 1</b>	<b>Qty: 1</b>	
1401557	1200208	1302020	1401584	1900015	1401563
					
<i>-10 ORB Plug</i>	<i>1/8" NPT Plug</i>	<i>Thread Lock</i>	<i>M22 Intake Heater Plug</i>	<i>Bolt Flange M8-1.25 x 30mm</i>	<i>Boot 3.5"</i>
<b>Qty: 1</b>	<b>Qty: 2</b>	<b>Qty: 1</b>	<b>Qty: 1</b>	<b>Qty: 1</b>	<b>Qty: 1</b>

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## 1041561 - Kit Contents

1401560	1401564P	68024672AB	1401561		
					
<i>6.7L Intake Horn</i>	<i>6.7L Pipe</i>	<i>Gasket</i>	<i>Bracket</i>		
<b>Qty: 1</b>	<b>Qty: 1</b>	<b>Qty: 1</b>	<b>Qty: 1</b>		
1401562	1405211	1405212	1405213		
					
<i>Boot 3.5"-4"</i>	<i>3-3.38 Clamps</i>	<i>3.56-3.91 Clamps</i>	<i>3.89-4.24 Clamps</i>		
<b>Qty: 1</b>	<b>Qty: 1</b>	<b>Qty: 3</b>	<b>Qty: 1</b>	<b>Qty: 1</b>	
1401557	1200208	1302020	1900015	1401584	1401563
					
<i>-10 ORB Plug</i>	<i>1/8" NPT Plug</i>	<i>Thread Lock</i>	<i>Bolt Flange M8-1.25 x 30mm</i>	<i>M22 Intake Heater Plug</i>	<i>Boot 3.5"</i>
<b>Qty: 1</b>	<b>Qty: 2</b>	<b>Qty: 1</b>	<b>Qty: 1</b>	<b>Qty: 1</b>	<b>Qty: 1</b>

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**1041566 - Kit Contents**

1401560	1401583P	68024672AB	1401561		
					
<i>6.7L Intake Horn</i>	<i>13-16 Intake pipe</i>	<i>Gasket</i>	<i>Bracket</i>		
<b>Qty: 1</b>	<b>Qty: 1</b>	<b>Qty: 1</b>	<b>Qty: 1</b>		
1401562	1405211	1405212	1405213	1407030	
					
<i>Boot 3.5"-4"</i>	<i>3-3.38 Clamp</i>	<i>3.56-3.91 Clamp</i>	<i>3.89-4.24 Clamp</i>	<i>3.28-3.63 Clamp</i>	
<b>Qty: 1</b>	<b>Qty: 1</b>	<b>Qty: 1</b>	<b>Qty: 1</b>	<b>Qty: 1</b>	
1401557	1200208	1302020	1900015	1401584	1406107
					
<i>-10 ORB Plug</i>	<i>1/8" NPT Plug</i>	<i>Thread Lock</i>	<i>Bolt Flange M8-1.25 x 30mm</i>	<i>M22 Intake Heater Plug</i>	<i>2.75-3" Boot 45deg</i>
<b>Qty: 1</b>	<b>Qty: 2</b>	<b>Qty: 1</b>	<b>Qty: 1</b>	<b>Qty: 1</b>	<b>Qty: 1</b>

**Options**

<u>Description</u>	<u>Part #</u>
6.7L Performance Intake Plate	1041562
6.7L Intake horn heater kit	1041563

**Tools Required**

- 8mm, 10mm Deep Socket
- 7/16", 1/2", 1" Deep Socket
- Ratchet with Extensions
- 9/16" , 1" Wrench
- 17mm, 19mm Wrench
- 3/32" Allen key
- Blade Screwdriver
- Side Cutters
- Razor Knife
- Masking Tape & Pen

***Before you install this Kit you must install:***

- A tuner with an EGR Delete Function.
- 6.7L Exhaust Gas Blocker Kit.

**Removal**

**VEHICLE SHOULD BE SAFELY SECURED BEFORE INSTALLATION.**

1. Remove the oil dipstick then remove the four bolts that secure the plastic cover to the engine. (8mm)

NOTE: Only required if the Exhaust blocker cover brackets were used.



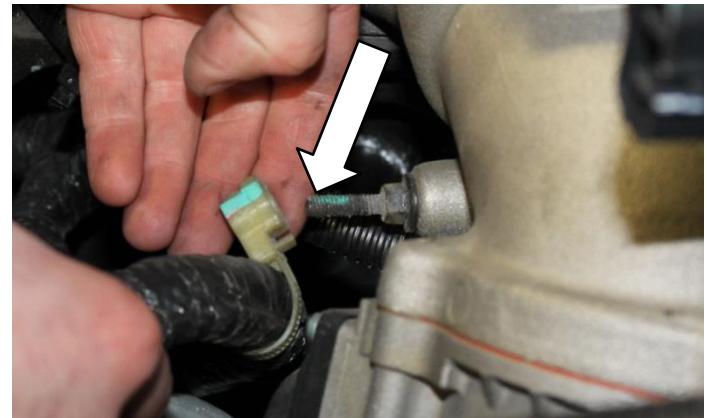
2. Remove the bolt holding the dipstick to the intake horn. (10mm socket)



3. Loosen clamp between the rubber boot and the intake horn. Use a blade screwdriver to gently break the seal. (11mm)

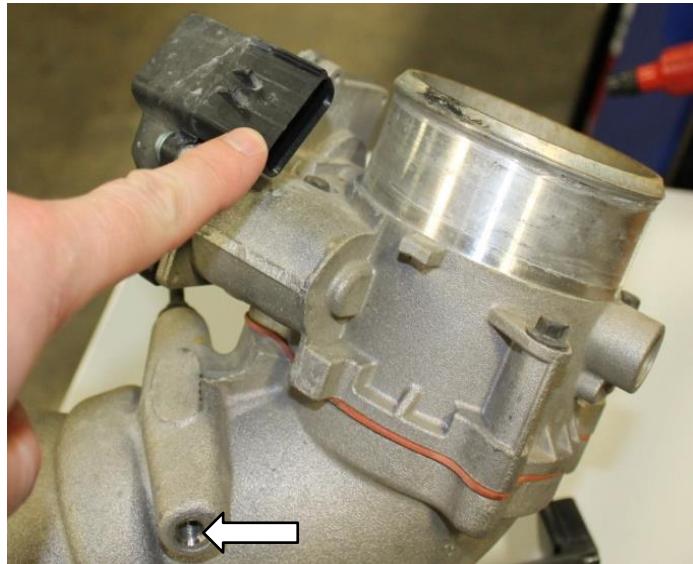


4. Pull off the harness clip from the intake horn.



**NOTE:** Early models (2007.5-2009) will need to disconnect the exhaust temperature sensor at the rear of the intake horn.

5. Disconnect the MAP sensor along with the bracket securing the wiring harness to the horn.
6. Also disconnect the 10mm bolt that holds the injector harness to the intake horn.
7. Remove the 6 (10mm bolts) that secure the horn to the engine.



*Photo shown on bench for clarity.*

8. If you have this rubber isolator on your fuel line it will need to be removed in order to fit the BD 6.7L intake horn. Clean the surface of the grid heater.

**\*\*IMPORTANT\*\***

Careful not to get any debris into the intake manifold.



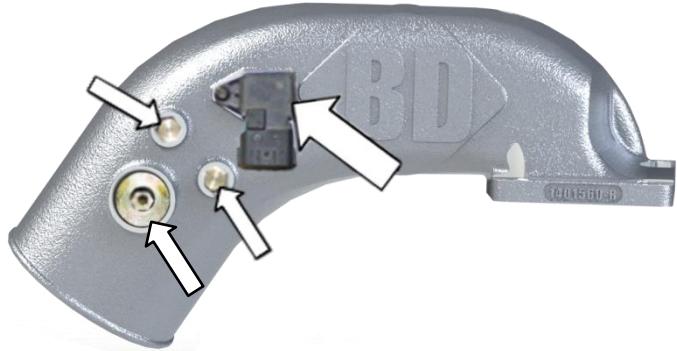
9. Disconnect the outlet Boot from the CAC (Drivers side) and pull out the pipe with boot and OEM clamp. (11mm)



Driver's side CAC Boot

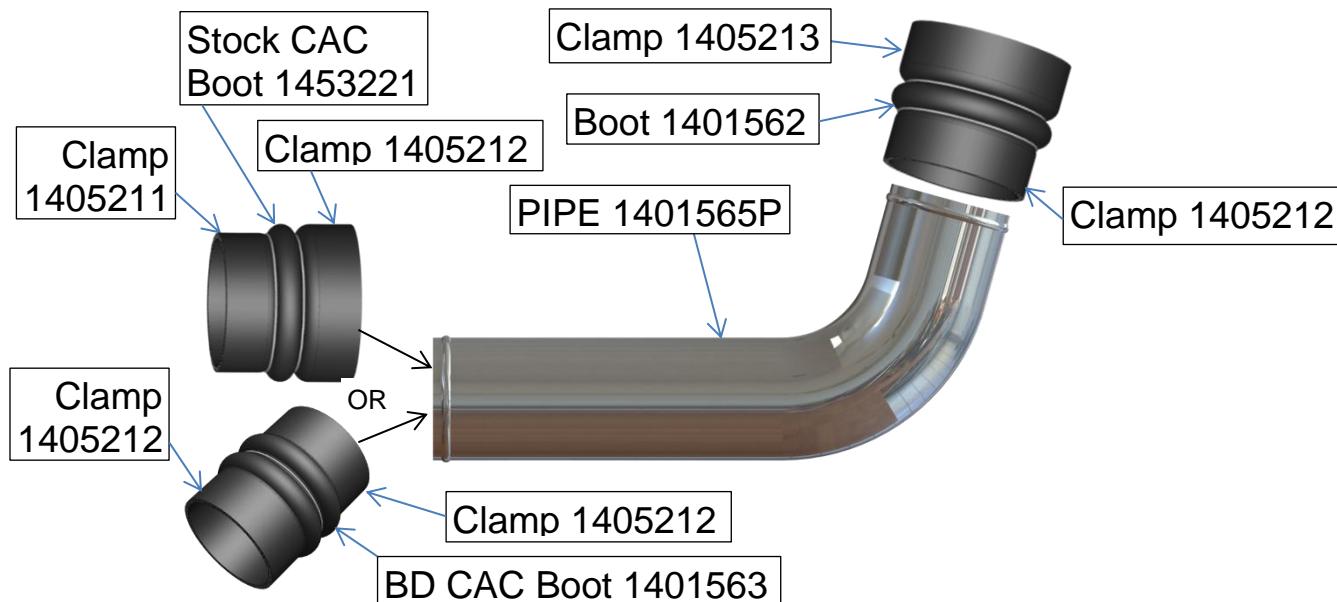
## Installation

10. Remove the MAP sensor from the OEM horn (3/32" Allen wrench). Then apply some pipe dope to the supplied 1/8" NPT plugs and insert into the ports on the BD intake horn. Then lubricate the o-ring on the MAP sensor and reinstall the MAP sensor into the BD horn. If not using an intake heater lube the o-ring on the M22 plug with a touch of oil then insert into the large port in the intake horn until the o-ring is deformed.

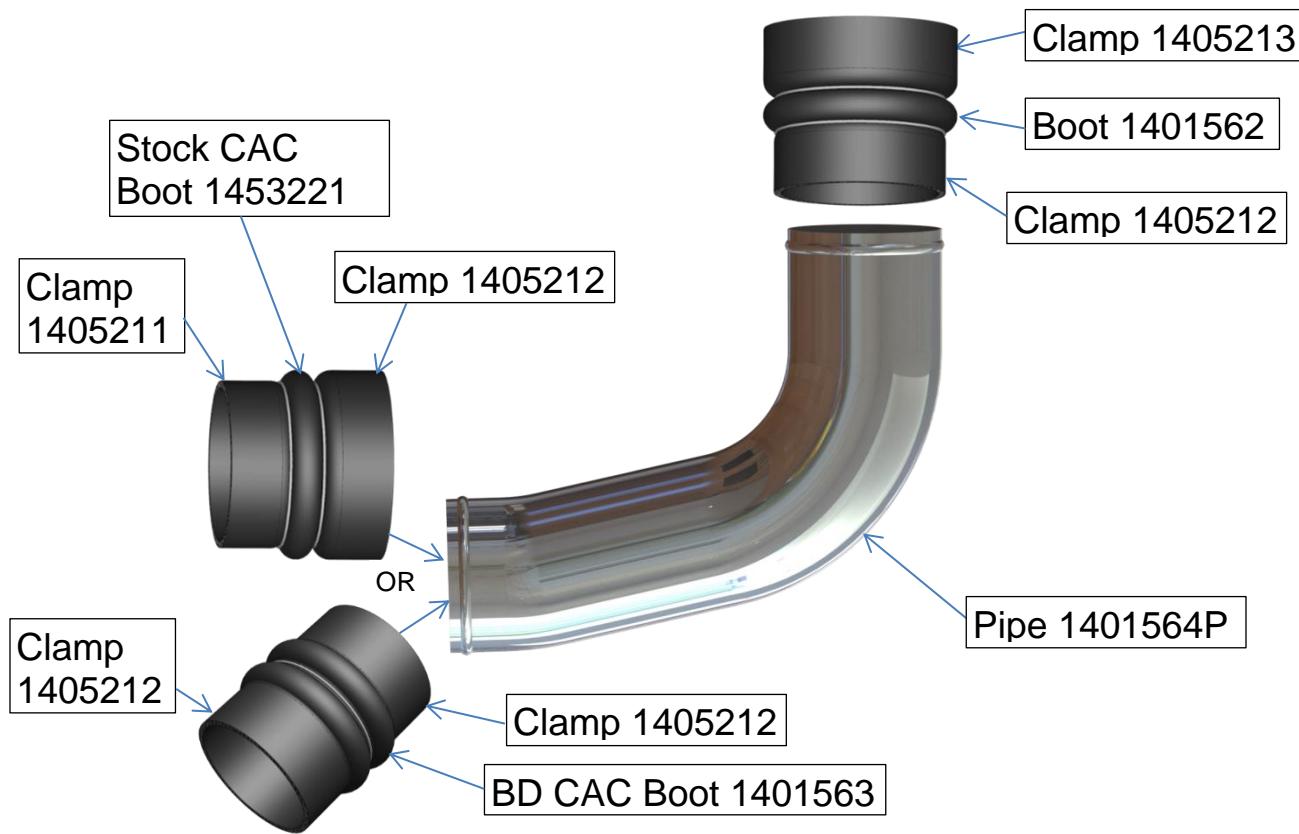


11. Preassemble the supplied boots to the included pipe. Note if you have a BD CAC you will need to use a different boot than if you have a stock CAC. See chart on the next page for more information. Only tighten the clamps on the pipe at this time. Tighten clamps until spring is bound.

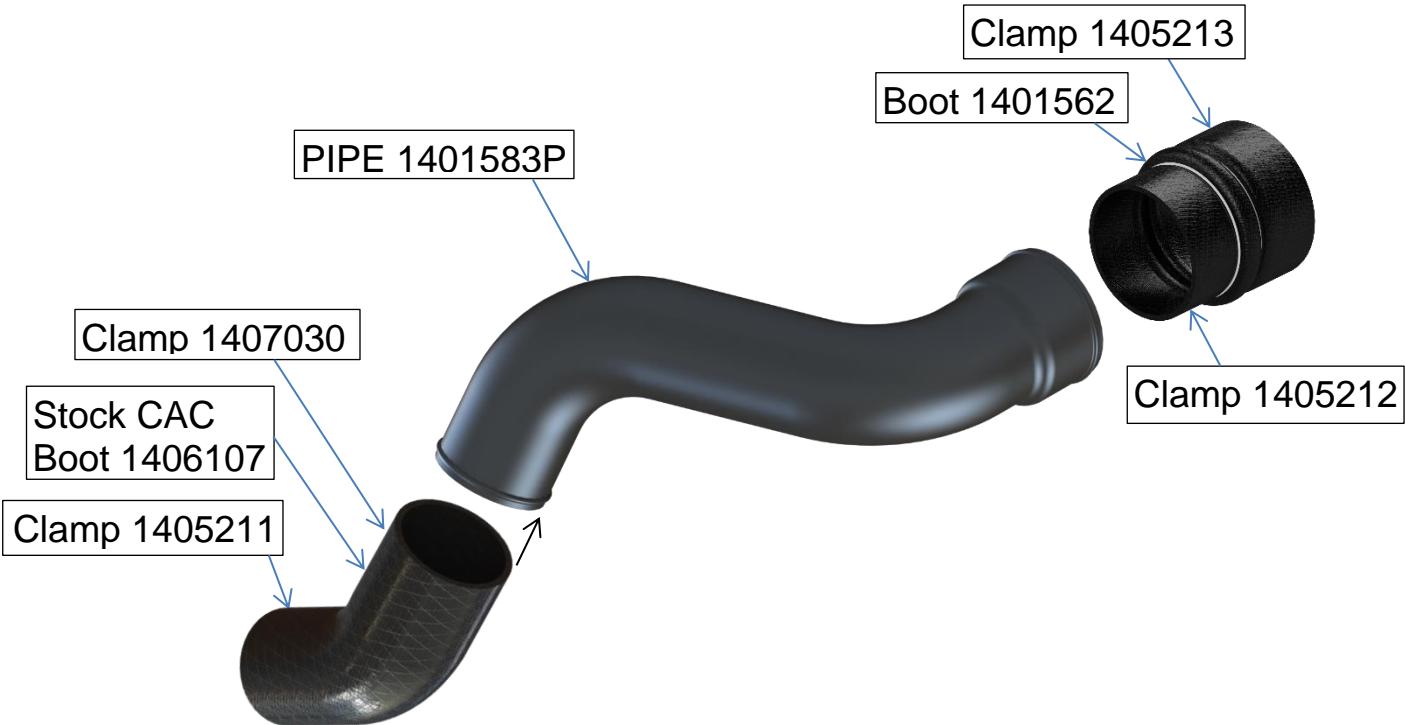
### 2007.5-2009 Models



## 2010-2012 Models



## 2013-2016 Models

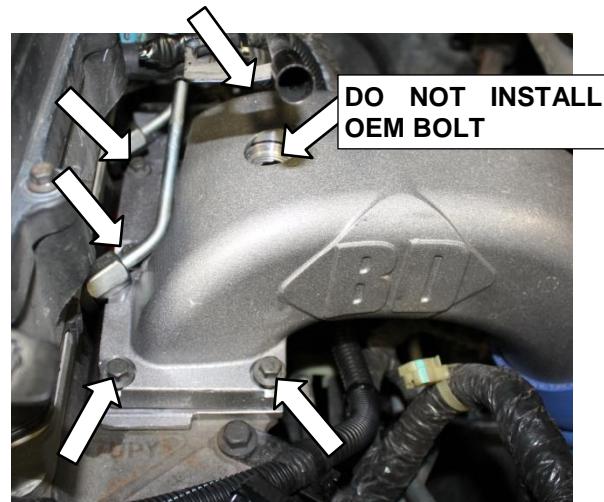


12. Install the pipe assembly with the supplied clamp to the driver's side CAC. Tighten this connection after step 16 until spring is bound.



13. Slide the last clamp over the pipe assembly and insert the intake horn into the step boot. **DO NOT TIGHTEN CLAMP.**

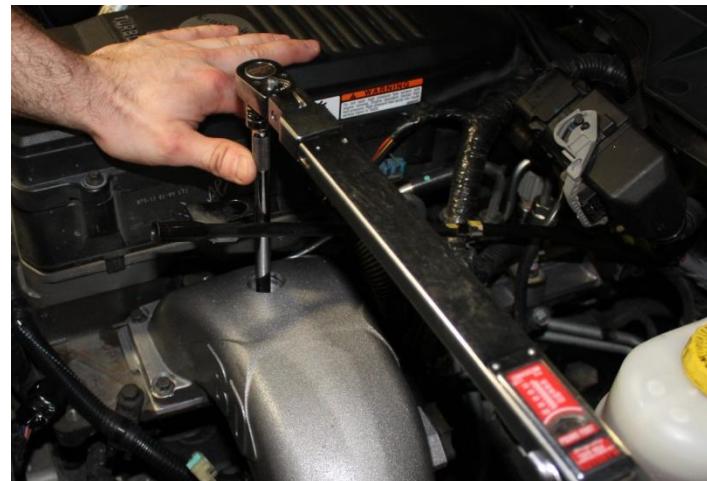
14. Fasten the intake horn into place with the five OEM bolts. Do not fully tighten as you may need some wiggle room for the last bolt.



15. Apply some supplied RED thread lock to the supplied flange bolt and carefully insert it through the horn using a magnet and tighten into the last bolt hole. Torque all bolts to 18 ft/lbs.

**\*\*IMPORTANT\*\***

***It is critical that the bolt does not fall into the intake of the motor.***



16. Once the final bolt is torqued, lube the o-ring and thread in the -10 ORB plug into the intake and tighten until the o-ring is deformed. (6mm) Allen wrench



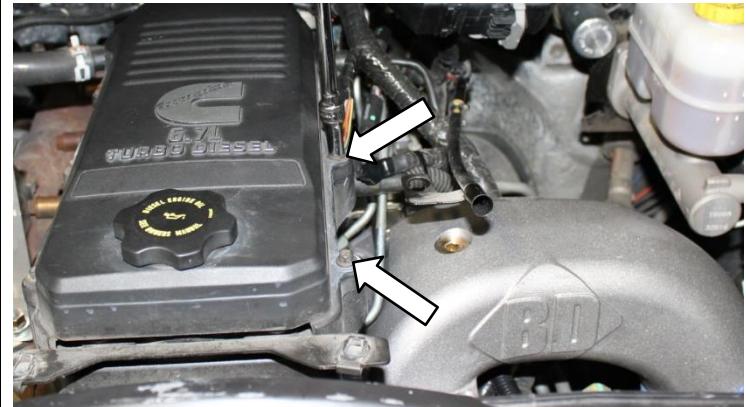
17. Apply some dielectric grease to the MAP sensor connector and reconnect the MAP sensor.



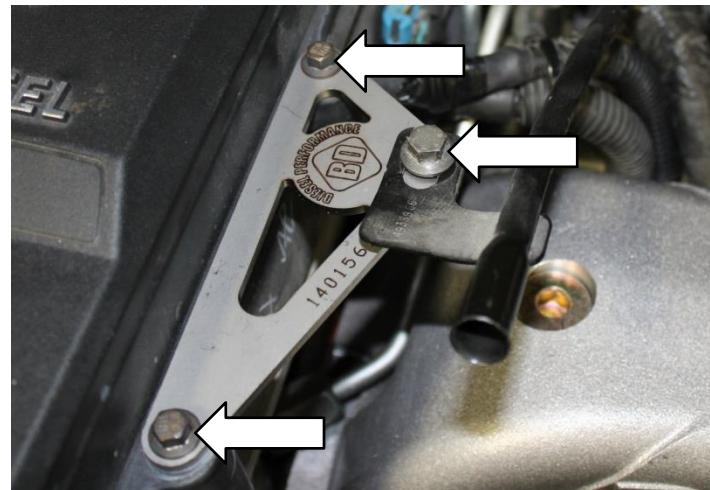
18. Tighten intake to boot connection with the supplied clamp. Tighten until spring is bound. (13mm)



19. Remove the two front bolts from the valve cover (DS) for the dipstick bracket. (8mm)



20. Using the OEM hardware install the dipstick bracket. (1401561)  
Torque the 8mm bolts to 89 in/lbs & 10mm to 18 ft/lbs.



21. Reinsert the oil dipstick and test drive vehicle and check for leaks.

**If you have any technical difficulties, concerns, comments, or complaints, please phone our Technical Support hotline at (800) 887-5030 between 8:30am-5:00pm PST (Pacific Standard Time) Monday to Friday.**