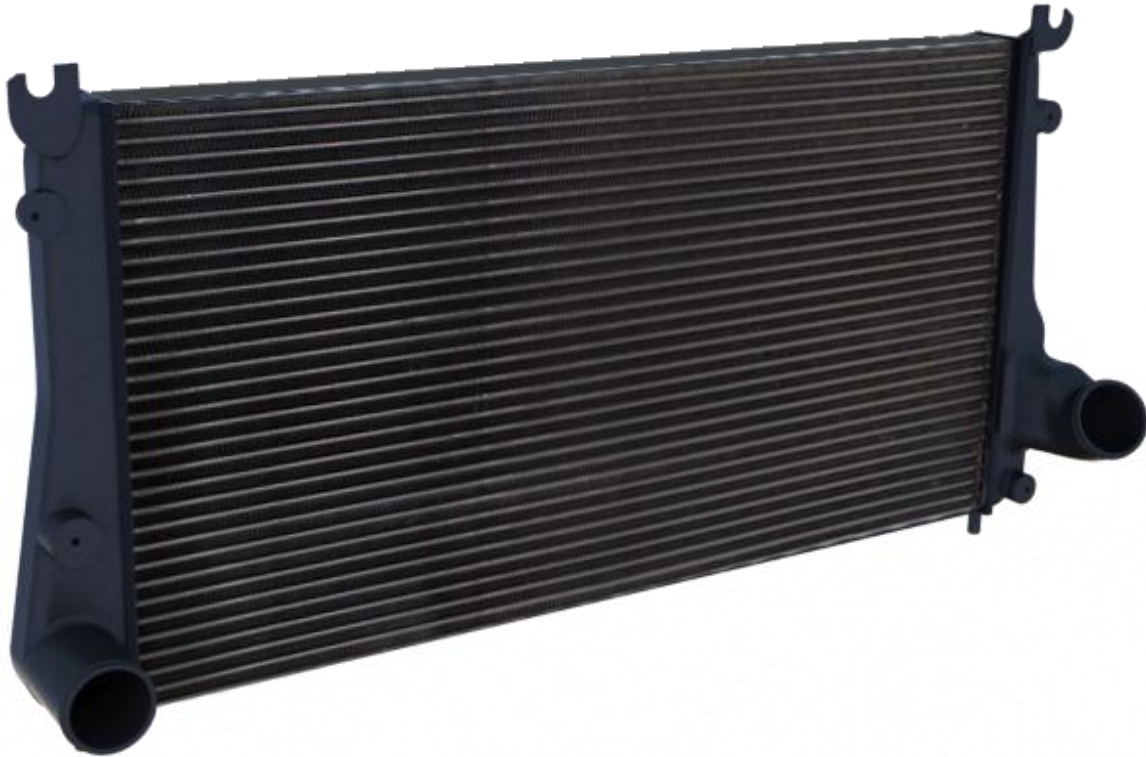
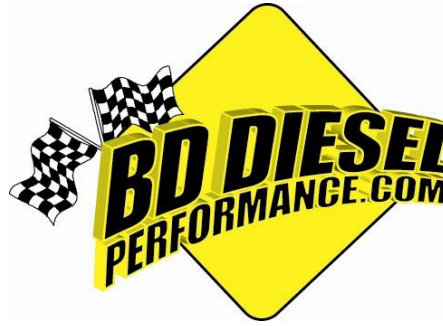




GMC/CHEVY LBZ/LMM DURAMAX (06-10)

COOL-IT INTERCOOLER

Installation Instructions

P/N# 1042610

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

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.

1402610	1402616	1402615	1402617
			
<i>Intercooler</i>	<i>Silicone Hose LBZ/LMM</i>	<i>Adapter 6.6 LBZ</i>	<i>Oring</i>
Qty: 1	Qty: 1	Qty: 1	Qty: 1

1405216	1407030	1100035	1402609
			
<i>4.5" Clamp</i>	<i>350 Clamp</i>	<i>Bolt M8x35mm</i>	<i>M8 Washer</i>
Qty: 1	Qty: 1	Qty: 4	Qty: 4

Tools Required

- Sockets 8,10,11,13mm
- Pick Tool
- Pry Bar
- T25 Torx
- Clip Removal Tool
- Brake Clean

Options

Description

Part

Super Max Turbo Kit 2006 LBZ

1046215

Exhaust Manifold 2001-2010

1041460

Variable Vane Exhaust Brake 2007.5-2010

2001030

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

Removal

Record radio presets, block wheels and disconnect the negative terminals of both batteries.

NOTE: LMM models will require the front bumper to be removed before the headlights can be removed.

1. Remove cover at top of grill by removing push clips.

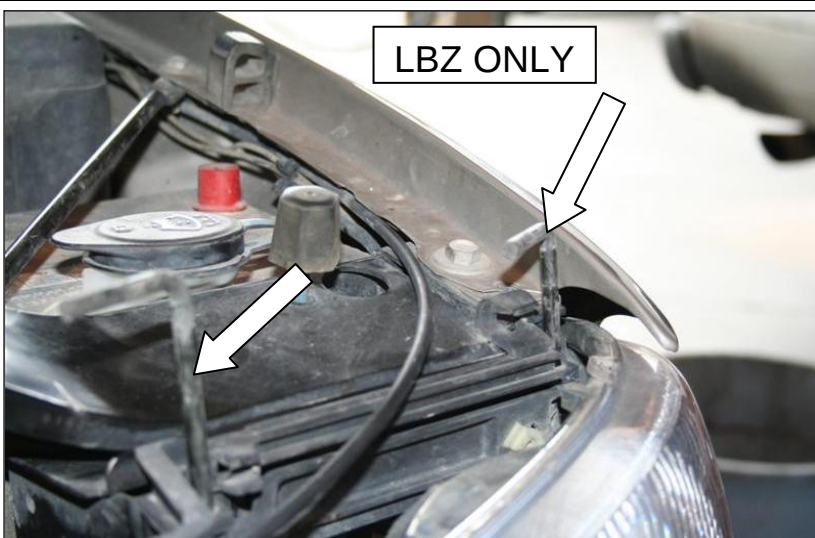


- 2.

LBZ Models

Remove headlights by removing 2 pins on each light then remove marker lights.

Remove the two headlight mounting panels. There are 6 - 10mm and 2 - T25 Torx. Note position of the Torx as they need to go back in the same place for headlight clearance.



LMM Models

Remove headlights by removing 3 (10mm) bolts on each headlight then remove marker lights.



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

3. Remove the 1 bolt holding the grill to the Rad Support/Tie Bar Assembly with a 10mm socket. Use a clip removal or similar tool to release these clips shown here, and the far outer clips can be removed by pulling them out by hand.

Mark position of hood latch with paint pen and remove 3 bolts (10mm)



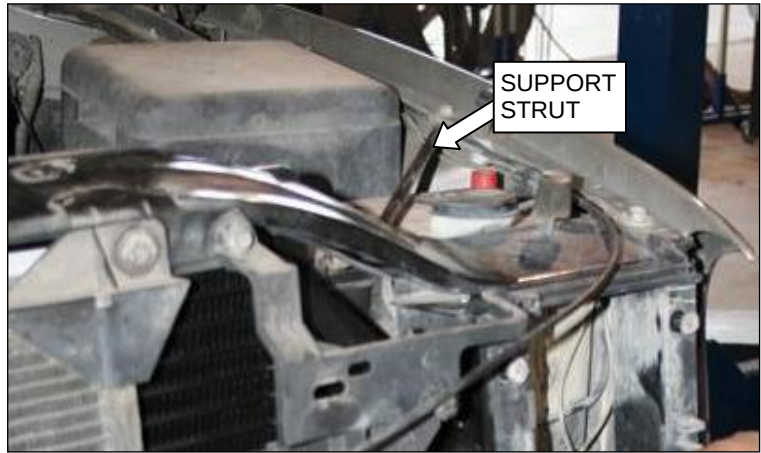
BD Engine Brake Inc.

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

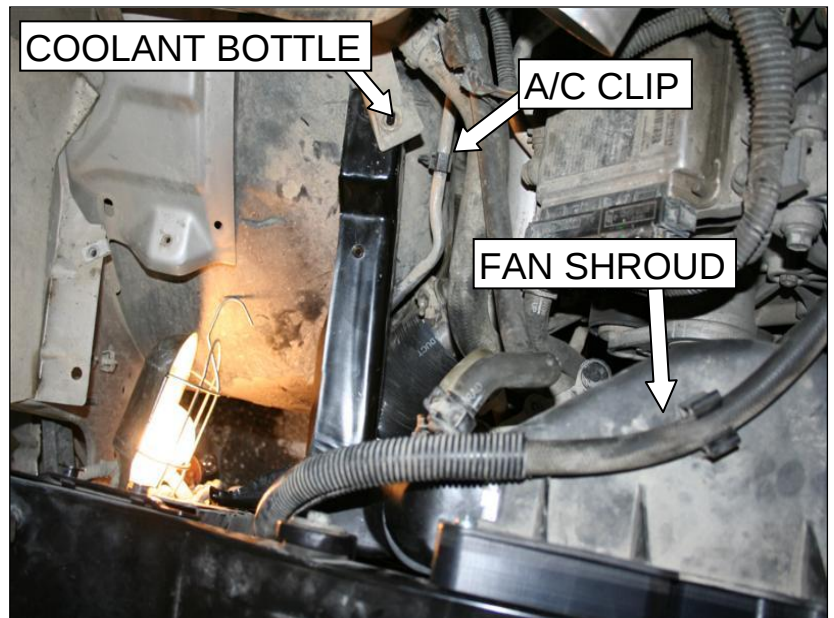
4. Remove support strut from driver's side top radiator support 2 bolts (10mm) to fender.



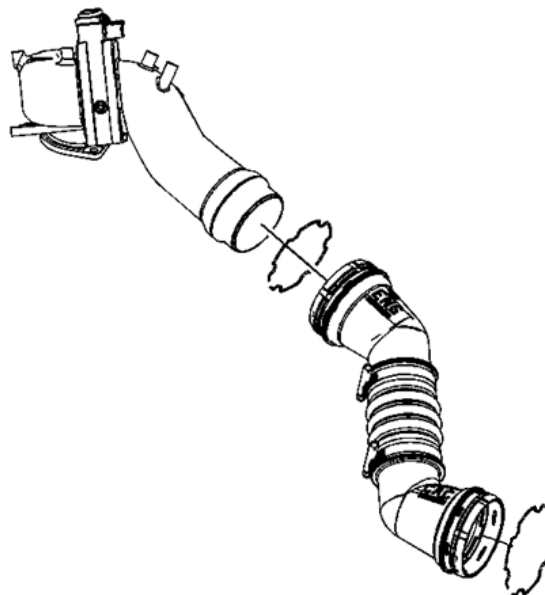
5. Remove air box and intake tube (8mm), then 4 bolts holding plate under air box and remove plate.(10mm)



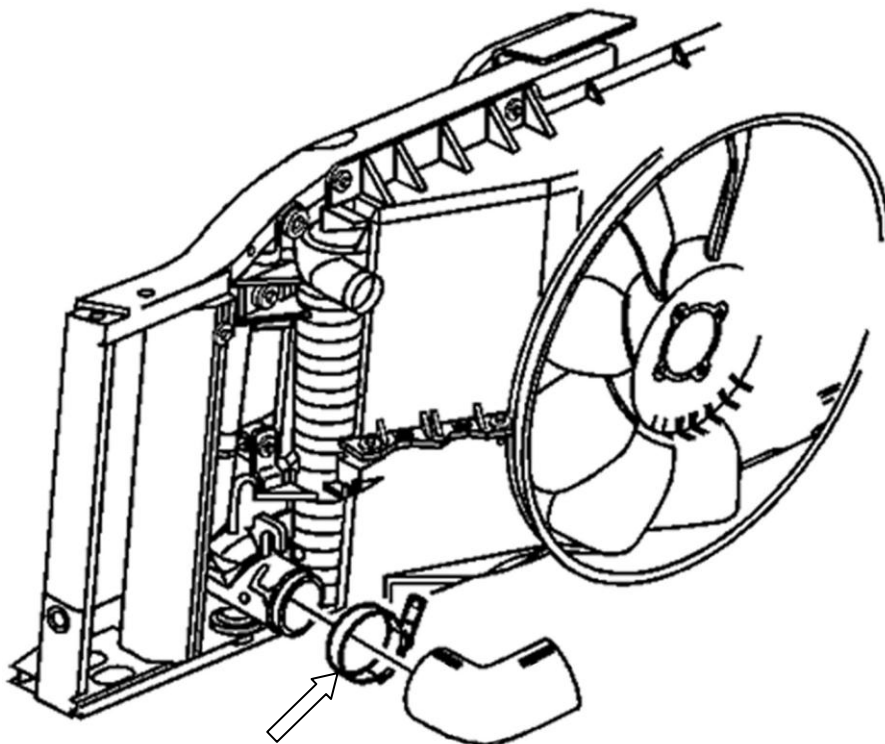
6. Remove bolt connecting coolant bottle to fender bracket (10mm), disconnect A/C line clip and then push pin from inner fender on wheel side. Loosen 2 (10mm) bolts holding bracket to rad support then lift bracket out of truck.



7. Remove passenger side CAC tube by removing wire clips from couplings at either end of tube. Then slide ends off intake and CAC.



8. Loosen clamp on driver side CAC boot (11mm) and remove boot from CAC side.



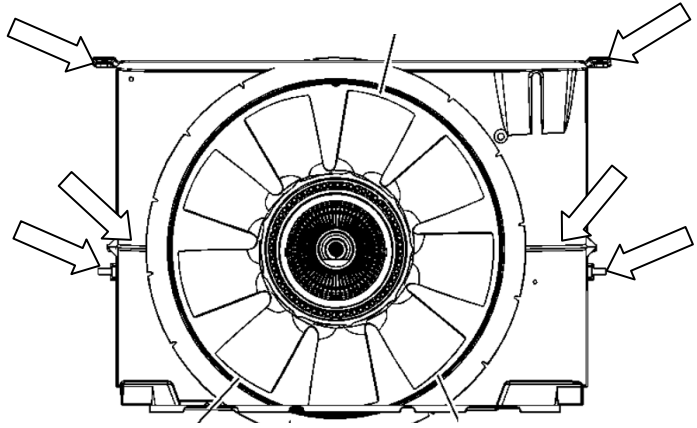
BD Engine Brake Inc.

Plant Address: 33541 MacLure Rd. Abbotsford, BC, Canada V2S 7W2

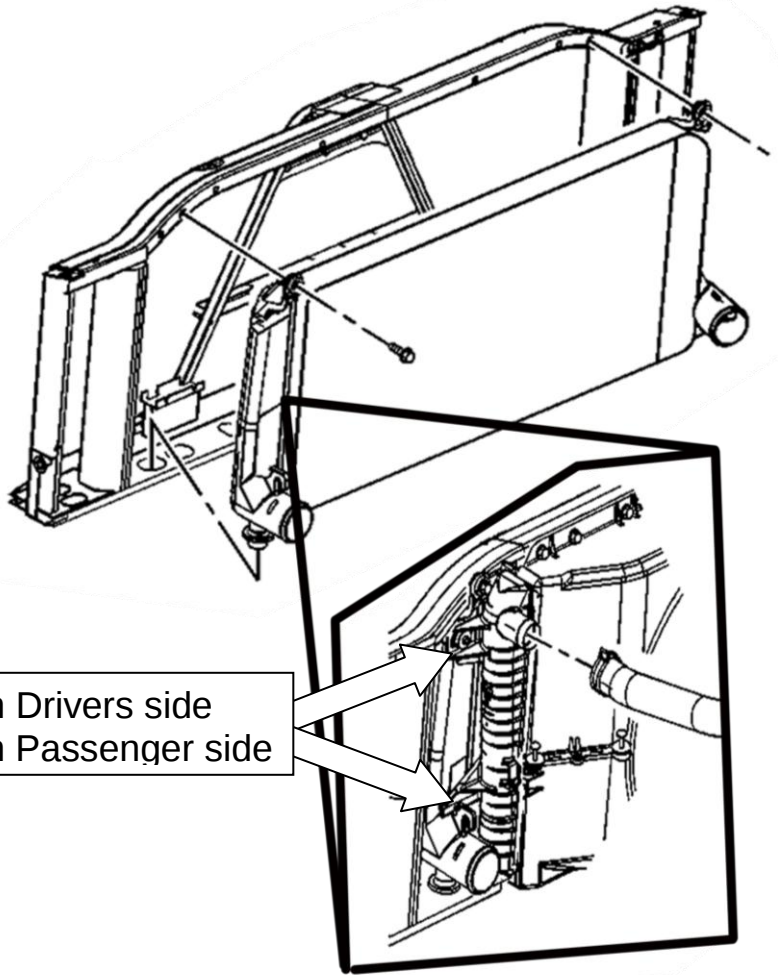
U.S. Shipping Address: 88-446 Harrison St, Sumas, WA 98295 U.S. Mailing Address: P.O. Box 231, Sumas, WA 98295

Phone: 604-853-6096 | Fax: 604-853-8749 | Internet: www.bd-power.com

9. Remove 2 (13mm) upper fan shroud bolts and lower 4 push pins to remove fan shroud.

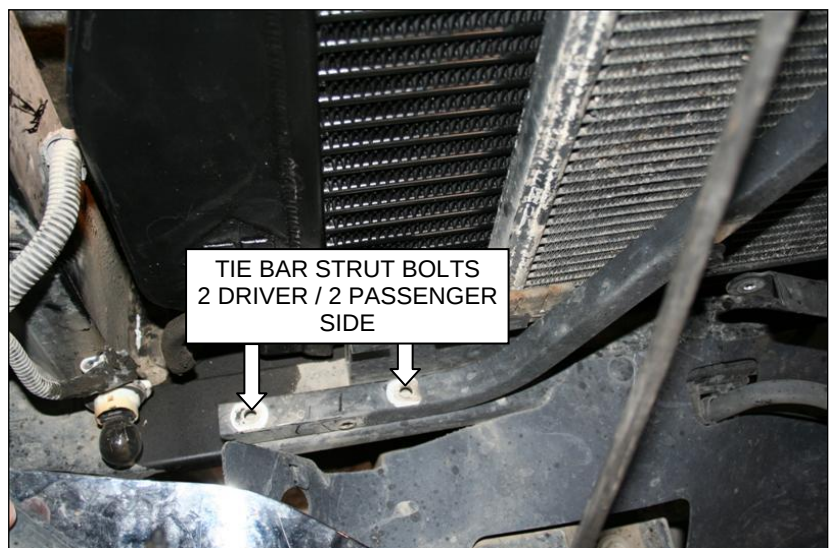


10. Remove 4 (13mm) bolts mounting radiator to CAC and then 2 (13mm) bolts mounting rad to rad support.



11. Disconnect air temp sensor and release harness clips. Remove 6 (10mm) bolts attaching top of tie bar assembly to rad support then remove 2 bolts at the top of the A/C Condenser and 4 (10mm) bolts at bottom of tie bar struts to remove tie bar assembly.

Move A/C condenser forward to make room for CAC removal.



12. Carefully lift rad and CAC upward then remove CAC.

BD Engine Brake Inc.

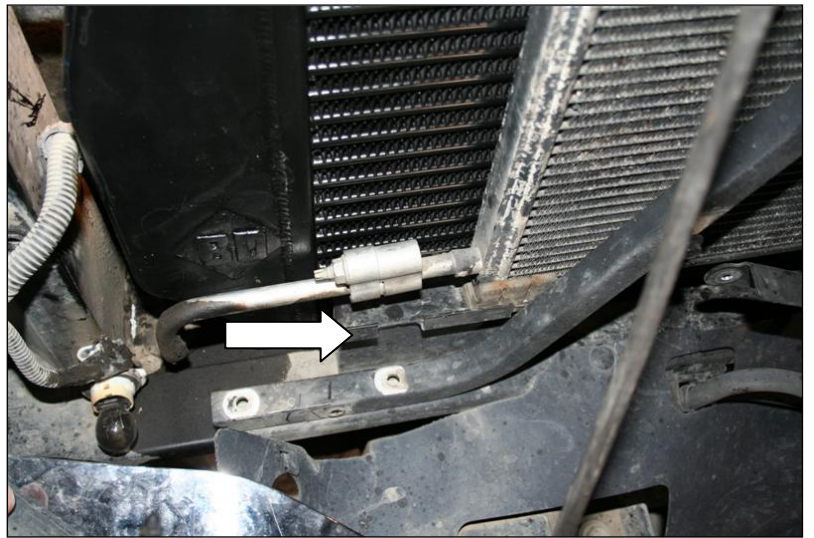
Plant Address: 33541 MacLure Rd. Abbotsford, BC, Canada V2S 7W2

U.S. Shipping Address: 88-446 Harrison St, Sumas, WA 98295 U.S. Mailing Address: P.O. Box 231, Sumas, WA 98295

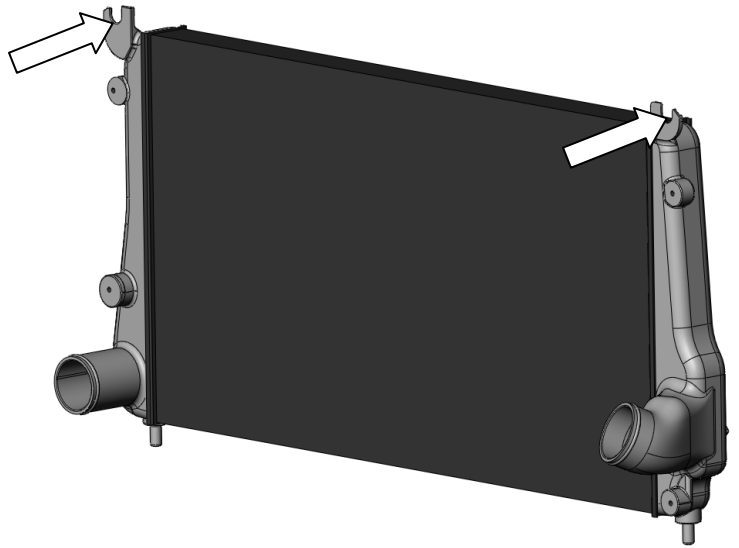
Phone: 604-853-6096 | Fax: 604-853-8749 | Internet: www.bd-power.com

Installation

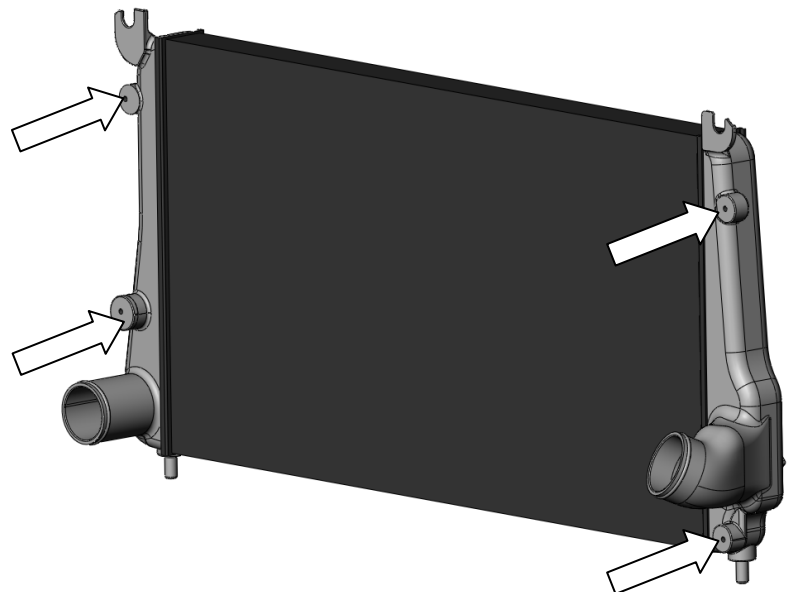
13. Using a pry bar carefully move A/C lower mount blocks forward about 1/8" for added clearance to BD CAC.
(1 driver side/1 passenger side)



14. Swap rubber mounts to BD CAC. Clean driver side CAC boot to remove oil residue. Remove lower mounting rubbers from stock CAC and place back into lower support.
15. Carefully install BD CAC lowering into position. Using 13 mm socket.



16. Mount radiator to the BD CAC using the supplied M8 x 35mm bolts (1100035) and M8 washers (1462609).



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

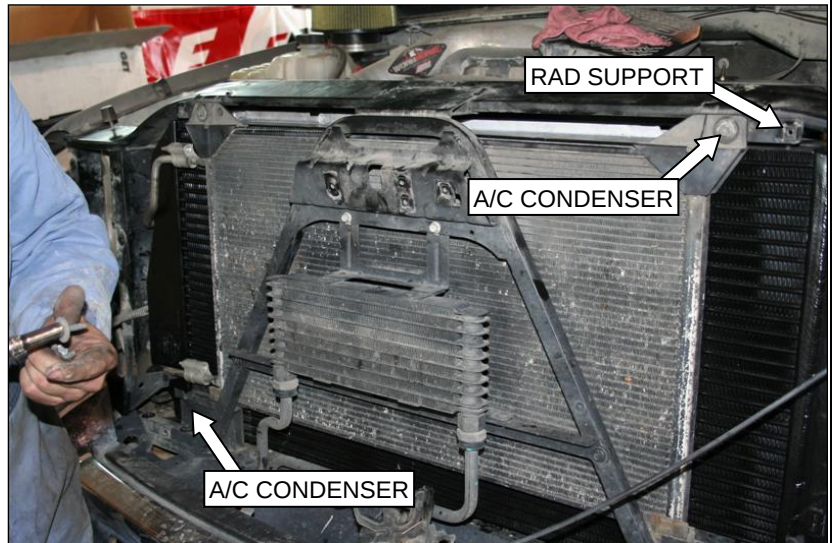
17. Position A/C condenser back onto lower mounts, then reinstall tie bar assembly (six bolts on top and four on the bottom).

18. Reinstall two upper CAC mounting bolts (13mm) to the rad support then the following:

- Two A/C condenser upper mount bolts (10mm).
- Two transmission cooler bolts (10mm).
- Hood latch (10mm).
- Reconnect air temp sensor and harness.

NOTE: (The hood latch position is critical, make sure it lines up to the tie bar paint pen marks).

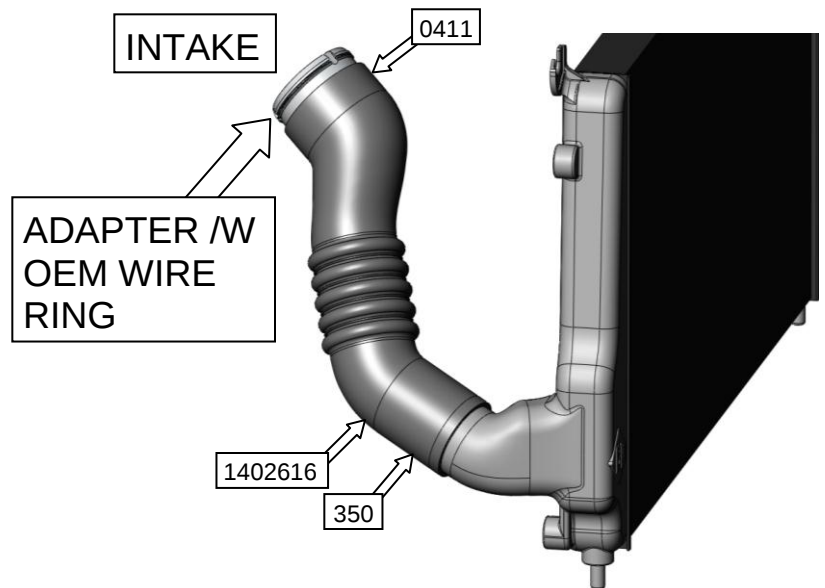
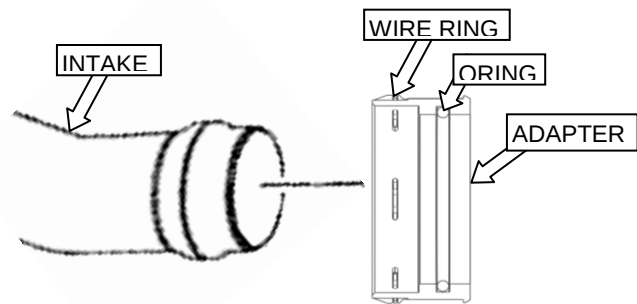
Install the upper fan shroud with two push fasteners per side and two upper mounting bolts (13mm), holding it to the radiator.



19. Reconnect driver side CAC boot to end tank and tighten clamp (11mm) until spring is bound.
20. Lubricate oring and insert into adapter provided (1402615) and install wire ring from OEM pipe.
21. NOTE: Wire ring needs to fully engage on intake. Use pick tool to assist if necessary.

Install adapter onto intake.

Install new CAC boot (1402616) onto adapter using the supplied clamp (0411) and to the CAC end tank with clamp (350). Position clamps so they do not rub anywhere and tighten clamps (13mm) until spring is bound.



22. Reinstall fender bracket. Tighten 2 (10mm) bolts and reinstall one push pin from inner fender. Once attached, remount coolant bottle (10mm) and A/C line.

23. Install airbox mounting plate with four bolts (10mm).

24. Reinstall air box and intake tube.(8mm)

25. Reinstall driver's side support strut (10mm).



26.

LBZ Models

Reinstall headlight brackets (not on LMM) with 6 (10mm) bolts and 2 (Torx T25) bolts then marker lights and heads with pins.

LMM Models

Reinstall headlights and marker lights. LMM uses three (10mm) bolts.

Reinstall grill and top cover with push pins.

NOTE: On LMM models the front bumper will need to be reattached after the reinstallation of the headlights.



27. Check over all hardware.



28. The installation is now complete and the vehicle is ready to be road tested.

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