



# BladeRunner® Intercooler Installation Instructions: 2007.5-2009 Dodge Ram Cummins L6-6.7L (td)

**Kit Part Number:**  
46-20032

**Make:**  
Dodge

Model:	Year:	Engine:
Ram 2500	'07.5-'09	L6-6.7L(td)
Ram 3500	'07.5-'09	L6-6.7L(td)
Ram 4500	'08-'09	L6-6.7L(td)
Ram 5500	'08-'09	L6-6.7L(td)

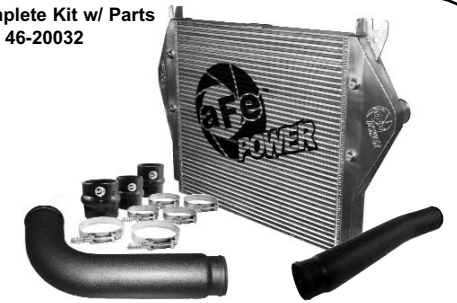
**Tools Required:**

7/16" deep socket  
10mm socket or wrench  
13mm socket or wrench  
Torque wrench  
Ratchet w/ extension  
Steel wire

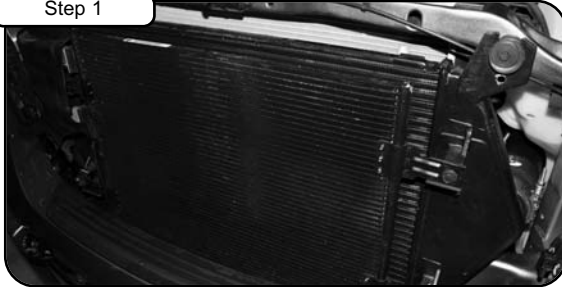
**49-20032 Parts list**

1 Intercooler  
1 Tube, 3-1/2" outlet  
1 Tube, 3" inlet  
1 Coupler, hump 3-1/2"  
2 Couplers, hump 3"  
2 Clamps, spring loaded T-bolt, 3-1/2"  
4 Clamps, spring loaded T-bolt, 3"

**Complete Kit w/ Parts**  
P/N: 46-20032



Step 1



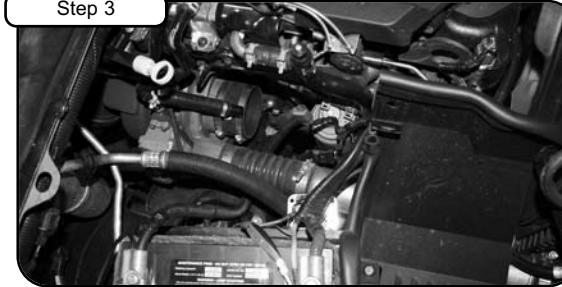
**Stock Intercooler.**

Step 2



Disconnect battery before install. Remove stock air box or intake system from vehicle for easier installation.

Step 3



Loosen clamp on intercooler inlet tube using 7/16" deep socket. Do not damage the coupler hose that attaches to the turbo, as it will be re-used.

Step 4



Remove plastic A/C line protector on passenger side. With 13mm socket or wrench loosen the 4 bolts holding in A/C condensor.

Step 5



Rotate the A/C condensor up and out away from vehicle. Take care to prevent damage to A/C lines.

Step 6



With A/C condensor turned 90 degrees, secure to the vehicles lifted hood using steel wire.

Step 7



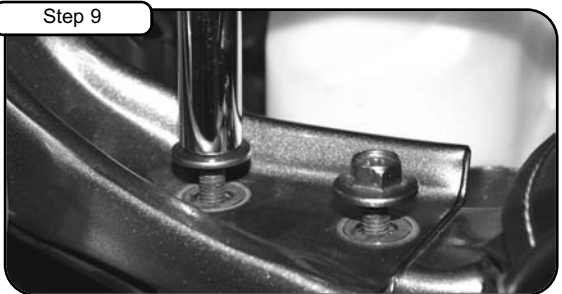
With 10mm socket or wrench remove the 2 top intercooler attachment bolts connected to upper radiator support.

Step 8



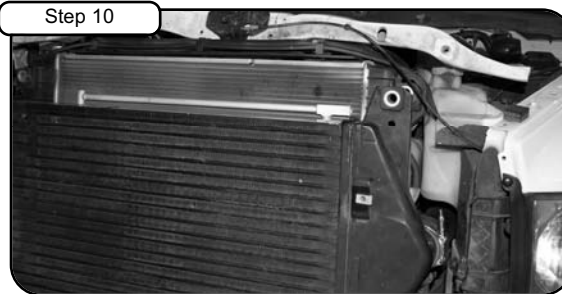
With 10mm socket and extension loosen the two bolts holding in radiator on back of upper radiator support.

Step 9



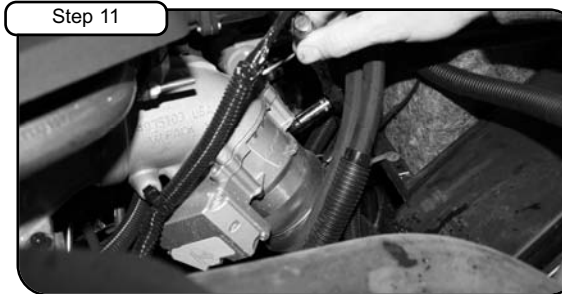
Loosen and remove the 4 bolts holding in upper radiator support using 13mm socket or wrench.

Step 10



Remove the upper radiator support and set aside on top of fan shroud. Loosen clamps on intercooler tubes using 7/16" deep socket. Now remove stock intercooler, inlet tube and factory couplers/clamps out of vehicle.

Step 11



With 7/16" deep socket, loosen clamp on manifold. Push down on intercooler tube and disconnect from manifold.

Step 12



Remove stock intercooler outlet tube from vehicle.



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13mm socket or wrench

Torque wrench

Ratchet w/ extension

Steel wire

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1 Tube, 3-1/2" outlet

1 Tube, 3" inlet

1 Coupler, hump 3-1/2"

2 Coupler, hump 3"

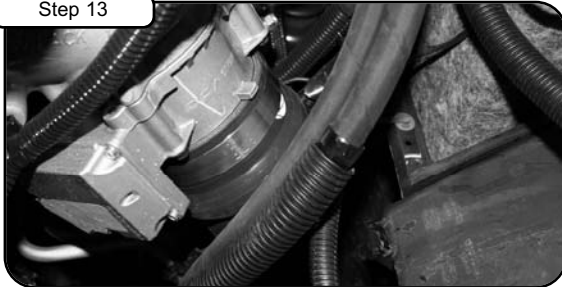
2 Clamps, spring loaded T-bolt, 3-1/2"

4 Clamps, spring loaded T-bolt, 3"

Complete Kit w/ Parts  
P/N: 46-20032



Step 13



Install 3-1/2" hump coupler to manifold with clamps provided.

Step 14



Loosely install new inlet tube to turbo coupler hose. Loosely install new outlet tube to manifold coupler hose.

Step 15



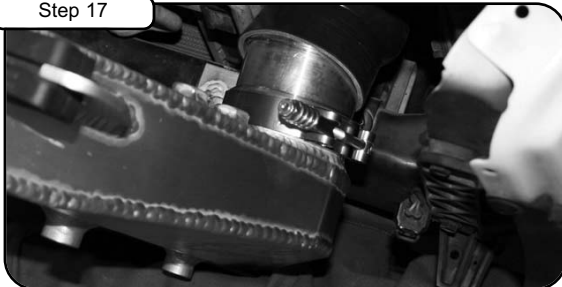
Remove the two upper-rubber isolators with spacers from stock intercooler and install to new BladeRunner® intercooler.

Step 16



Remove the 2 U-shaped rubber isolators from stock intercooler and install to new BladeRunner® intercooler.  
**NOTE:** Tape isolators in place for easier installation.

Step 17



Install new 3" silicone hump couplers and new clamps provided to intercooler tubes. Tighten and torque clamps on intercooler tubes to 75 in. lbs. With two people, install BladeRunner® intercooler into vehicle.

Step 18



Position and make sure intercooler rubber U-shaped isolators sit square on cross beam and have not folded during installation.

Step 19



**INTERCOOLER MAY NEED ALIGNMENT, TIGHTEN WHEN IN CORRECT POSITION & PROPER CLEARANCE.** Re-install Radiator support (See reverse steps 5 through 8). Tighten and torque all clamps to 75 in. lbs. Re-install A/C condenser to new intercooler using M8 screws and lock washers provided and tighten.

Step 20



Re-attach A/C line protector (Not shown for photo purposes). Re-install intake/stock air box & re-connect battery. Your installation is now complete. Please check all screws and clamps periodically. Re-tighten if necessary. Thank you for choosing aFePower!

