



advanced FLOW engineering™
 P.O. Box 1719
 Corona, CA 92878
 Support: 951-493-7100
 aFepower.com

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

Kit Part Number:
46-20032

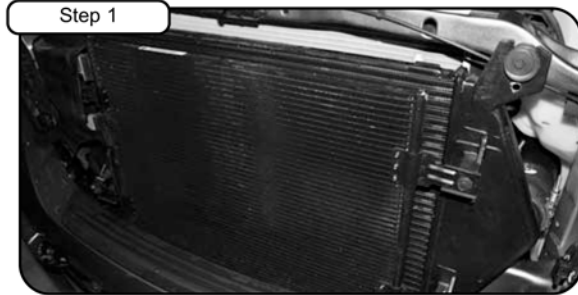
Make:
Dodge

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"

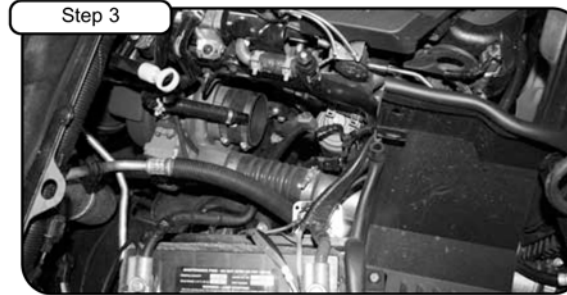
Complete Kit w/ Parts
 P/N: 46-20032



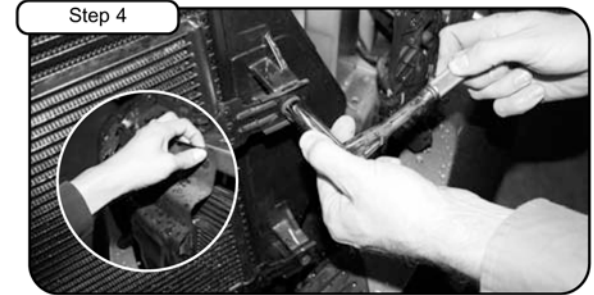
Step 1
 Stock Intercooler.



Step 2
 Disconnect battery before install. Remove stock air box or intake system from vehicle for easier installation.



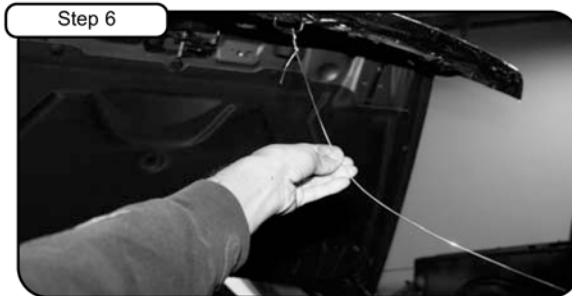
Step 3
 Loosen clamp on intercooler inlet tube using 7/16" deep socket. Do not damage the coupler hose that attaches to the turbo, as it will be re-used.



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.



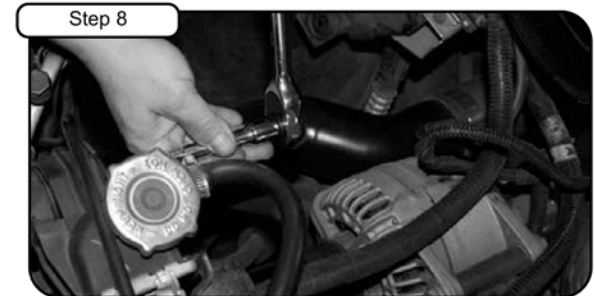
Step 5
 Rotate the A/C condensor up and out away from vehicle. Take care to prevent damage to A/C lines.



Step 6
 With A/C condensor turned 90 degrees, secure to the vehicles lifted hood using steel wire.



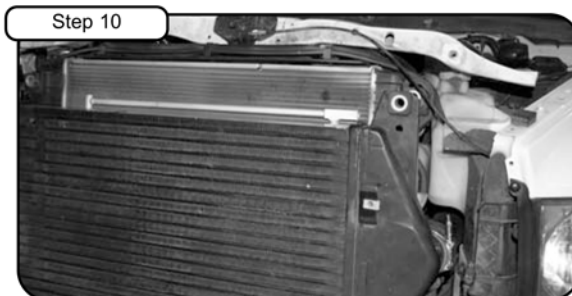
Step 7
 With 10mm socket or wrench remove the 2 top intercooler attachment bolts connected to upper radiator support.



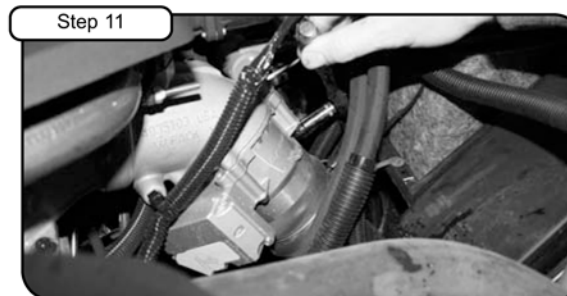
Step 8
 With 10mm socket and extension loosen the two bolts holding in radiator on back of upper radiator support.



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.

California vehicle code sections 27156 and 38391 prohibit the advertising, offering for sale, or installation of any device, which modifies a vehicle's emission control system unless exempted. Unless otherwise noted, aFePower have not received an exemption from these code sections and are not legal for sale or use in California on vehicles originally equipped with pollution-control devices. It is illegal, except for racing vehicles, which may never be driven upon a highway, to remove or otherwise render inoperative any emission control device on regulated motor vehicles. Check the aFe website to ensure proper application.

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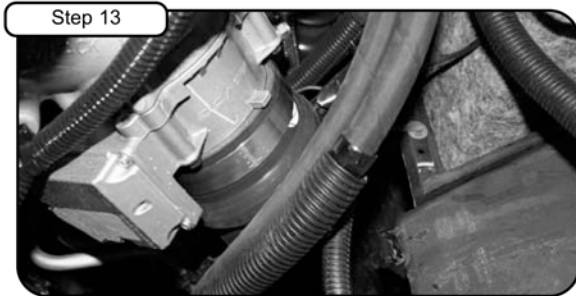
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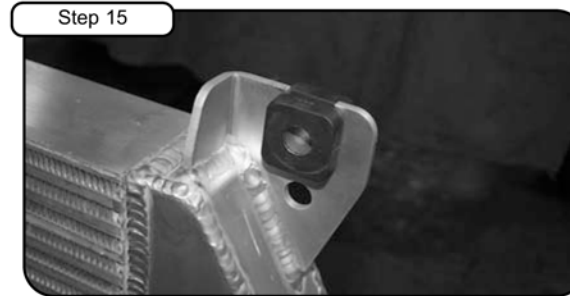
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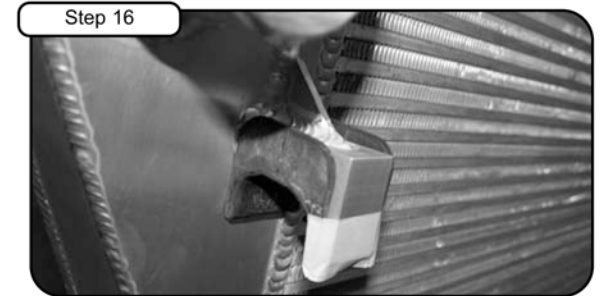
Install 3-1/2" hump coupler to manifold with clamps provided.



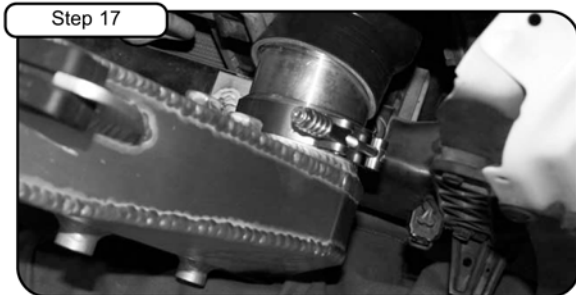
Loosely install new inlet tube to turbo coupler hose. Loosely install new outlet tube to manifold coupler hose.



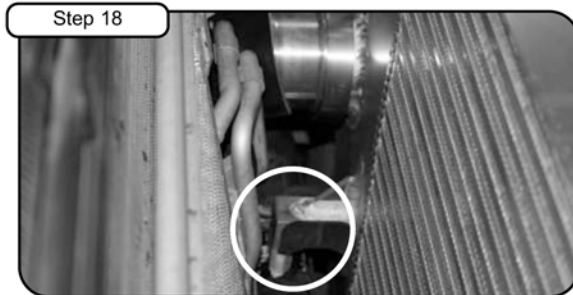
Remove the two upper-rubber isolators with spacers from stock intercooler and install to new BladeRunner® intercooler.



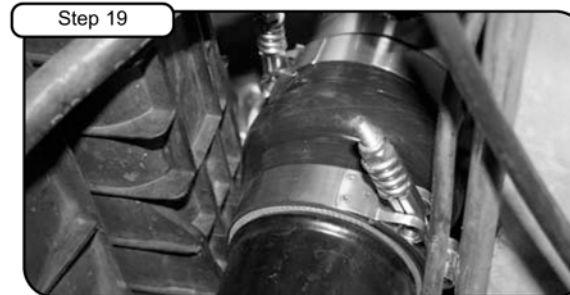
Remove the 2 U-shaped rubber isolators from stock intercooler and install to new BladeRunner® intercooler.
NOTE: Tape isolators in place for easier installation.



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.



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



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.



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!



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