

banks

Owner's Manual with Installation Instructions

Banks Ram-Air® Intake System

2012 Jeep 3.6L

THIS MANUAL IS FOR USE WITH KIT 41837

Gale Banks Engineering
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Product Information & Sales: (888) 635-4565

bankspower.com

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General Installation Practices

Dear Customer,

If you have any questions concerning the installation of your Banks Ram-Air System, please call our Technical Service Hotline at (888) 839-2700 between 7:00 am and 5:00 pm (PT). If you have any questions relating to shipping or billing, please contact our Customer Service Department at (888) 839-5600.

Thank you.

1. For ease of installation of your Banks Ram-air intake system, familiarize yourself with the procedure by reading the entire manual before starting work.
2. The exploded view of the Ram-Air assembly (pages 4-5) provides only general guidance. Refer to each step and section diagram in this manual for proper instruction.
3. Throughout this manual, the left side of the vehicle refers to the driver's side, and the right-side to the passenger's side.
4. Disconnect the ground cable from the battery before beginning work. If there are two batteries, disconnect both.
5. Route and tie wires and hoses a minimum of 6 inches away from exhaust heat, moving parts and sharp edges. Clearance of 8 inches or more is recommended where possible.
6. During installation, keep the work area clean. If foreign debris is transferred to any Banks system component, clean it thoroughly before installing.

7. When raising the vehicle, support it on properly weight-rated safety stands, ramps or a commercial hoist. Follow the manufacturer's safety precautions. Take care to balance the vehicle to prevent it from slipping or falling. When using ramps, be sure the front wheels are centered squarely on the topsides; put the transmission in park; set the parking brake; and place blocks behind the rear wheels.

CAUTION! Do not use floor jacks to support the vehicle while working under it. Do not raise the vehicle onto concrete blocks, masonry or any other item not intended specifically for this use.

Notification

The Banks Ram-Air Filter comes pre-oiled and no oiling is necessary for initial installation. Service the filter as specified in the Filter Maintenance Section of this manual.

Tools Required:

- 10mm socket wrench
- Standard head screwdriver
- Standard pliers
- 5/16 in nut driver
- 5/64 in allen wrench
- Clean shop towels or rags

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Products available from Banks Power for the 2012 Jeep 3.6L



Banks Monster® Exhaust System (P/N 51342, 51343)

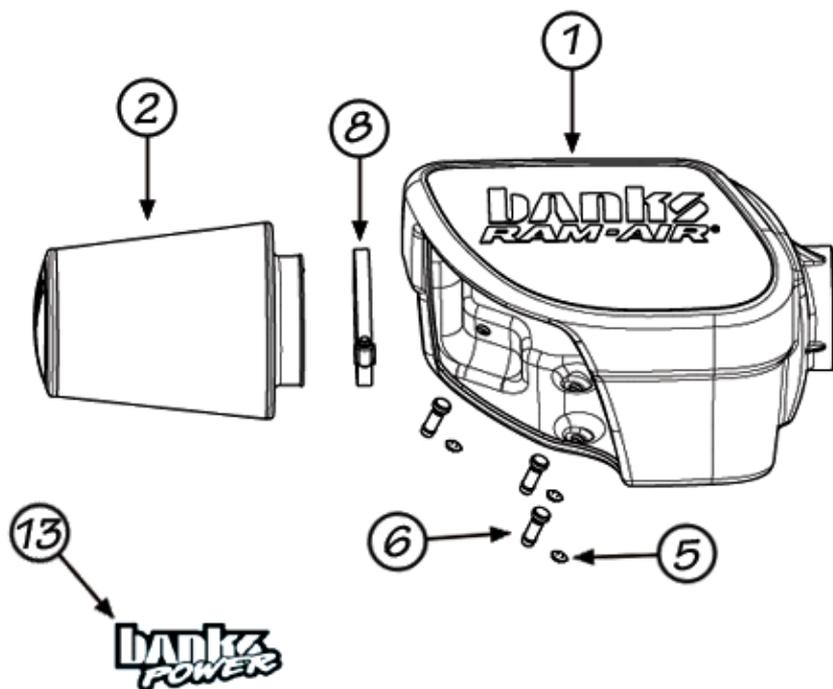
-Increases exhaust flow, cuts backpressure, lowers exhaust gas temperatures (EGTs) and increases power.

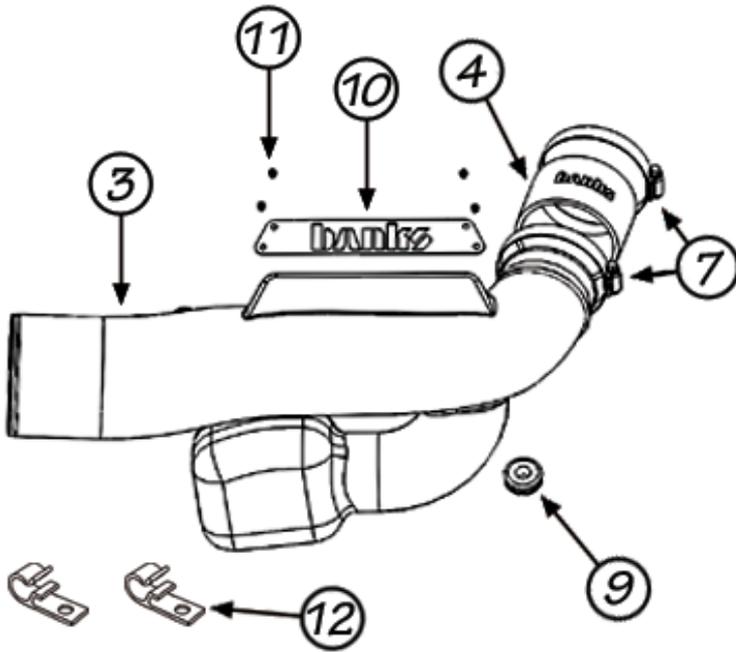
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Section 1

GENERAL ASSEMBLY

Figure 1





Bill of Materials

P/N	Item	Description	QTY
41833	1	Housing, Ram-Air Filter	1
41835	2	Air Filter Element, Ram-Air System	1
41838	3	Intake Tube, Ram-Air	1
94308	4	Hose, Throttle Body	1
91701	5	E-Clip, 3/8"	3
92152	6	Mounting Peg, A/F Housing	3
92857	7	Hose Clamp, #56 W/Liner	2
92872	8	Hose Clamp, #72 W/Liner	1
93652	9	Grommet, Temp Sensor	1
96112	10	Logo Plate	1
91715	11	#6-32 Button Head Screws	4
62073	12	Loop Clamp	2
96009	13	Banks Urocals	2

Section 2

RAM-AIR INSTALLATION

Use the Bill of Materials Chart and the General Assembly Drawing to reference component nomenclature and location. Use caution when working in the engine compartment. Make sure the engine has been OFF for several hours and cool.

You are about to install the Banks Ram-Air Intake System. Read and follow all steps before working on the vehicle. Some components from the stock air intake system will remain in service. Take caution when removing stock air intake components from damaging them.

1. Remove the Engine Cover from the vehicle and set aside. The cover is held in place by rubber grommets.
2. Un-clip the coolant over flow hose from the two holding clips in front of the vehicle. Loosen the bolts and remove the clips and bolts from the vehicle. See **Figure 2**. Retain the bolts for re-use.

3. Loosen the band clamps at the intake housing and throttle valve. Carefully lift the intake tube loose and disconnect the Air Intake Temperature (AIT) sensor connector located on the lower part of the intake tube close to the throttle body, by moving the red tab back and pulling on the connector. Remove the intake tube from the vehicle.

4. Remove the Air Intake Temperature (AIT) Sensor located on the intake tube by twisting the Sensor half turn and pull out. Set connector aside and retain sensor for re-use.

NOTE: Take caution when handling the sensor.

5. Disconnect the CCV hose from the air intake housing. See **Figure 3**.

6. Un-clip the four tabs holding the air filter housing cover. Remove the cover and the air filter from the engine compartment and set aside.

Figure 2- Factory Stock Intake

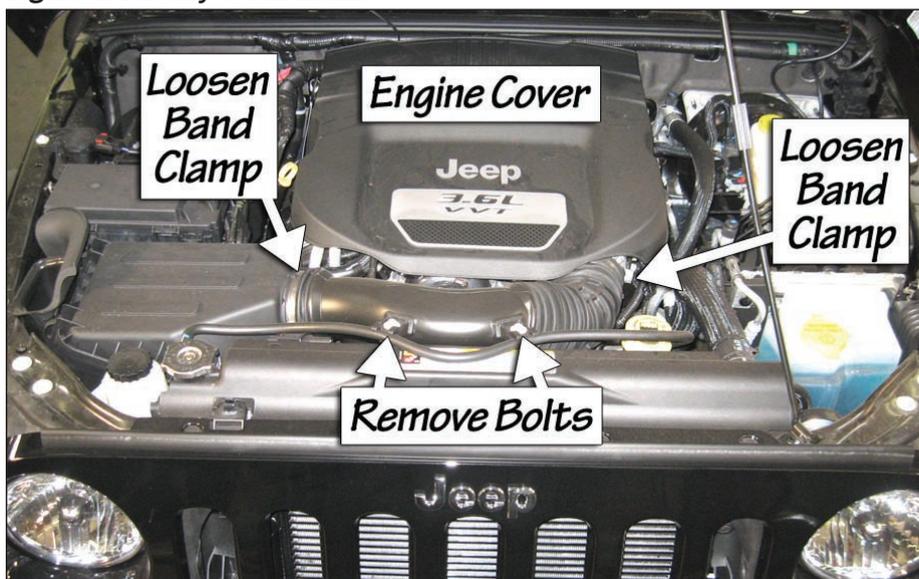


Figure 3- Disconnect CCV hose from intake housing



Figure 4- Removal of filter housing bottom

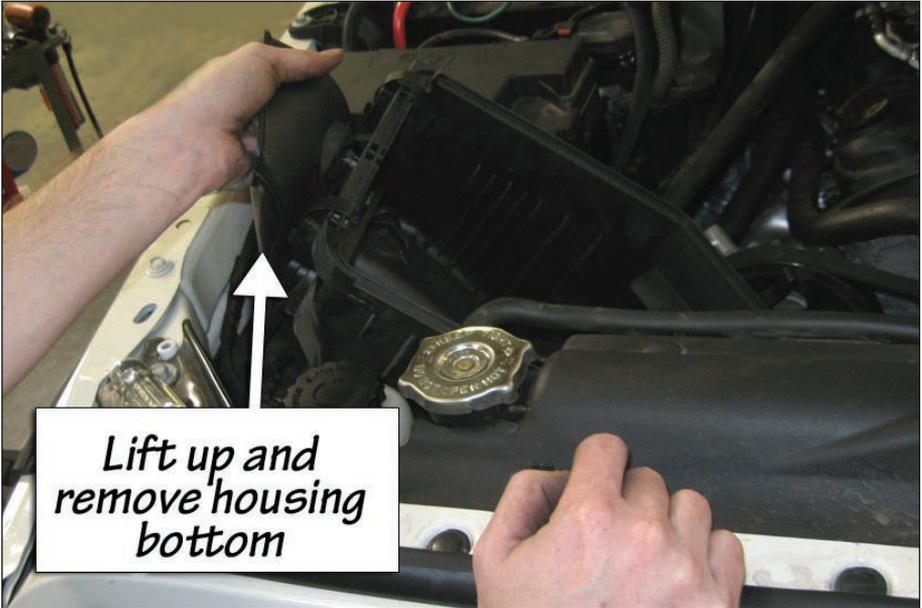
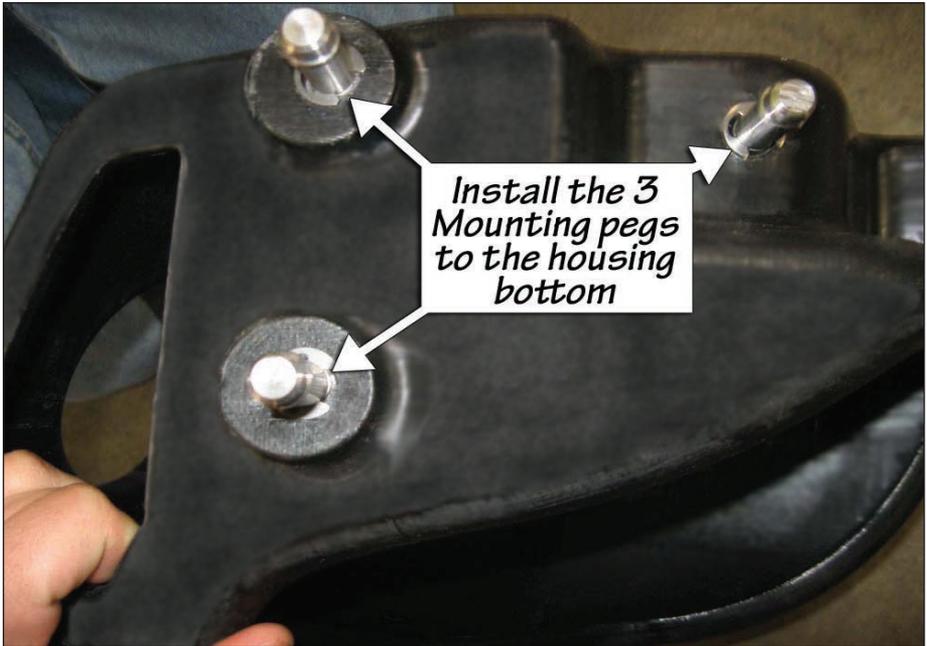


Figure 5- Attaching mounting pegs to the housing bottom



7. Remove the air filter housing (bottom) by lifting up from the passenger side of the engine compartment and set aside. See **Figure 4**.

8. Install the 3 three (supplied) Mounting Pegs onto the Banks air filter housing so that they extend out of the housing and then attach the E-Clips onto the three Mounting Pegs from the outside of the housing. See **Figure 5**.

9. Locate the supplied filter hose clamp and install onto the Banks filter.

10. Locate the supplied rubber AIT grommet from your Banks kit and install onto the air intake tube. See **Figure 6**.

11. Install the AIT sensor flush into the grommet on the air intake tube.

12. Insert the Banks intake tube onto the Banks Ram-Air Housing; be sure to insert the end of the intake tube that has an arrow on it.

13. Insert the Banks air filter into the end of the Banks intake tube that is inside of the Banks Ram-Air Housing. For proper fit be sure that the arrows on the Banks air filter and intake tube line up. Tighten Banks filter hose clamp. See **Figure 7**.

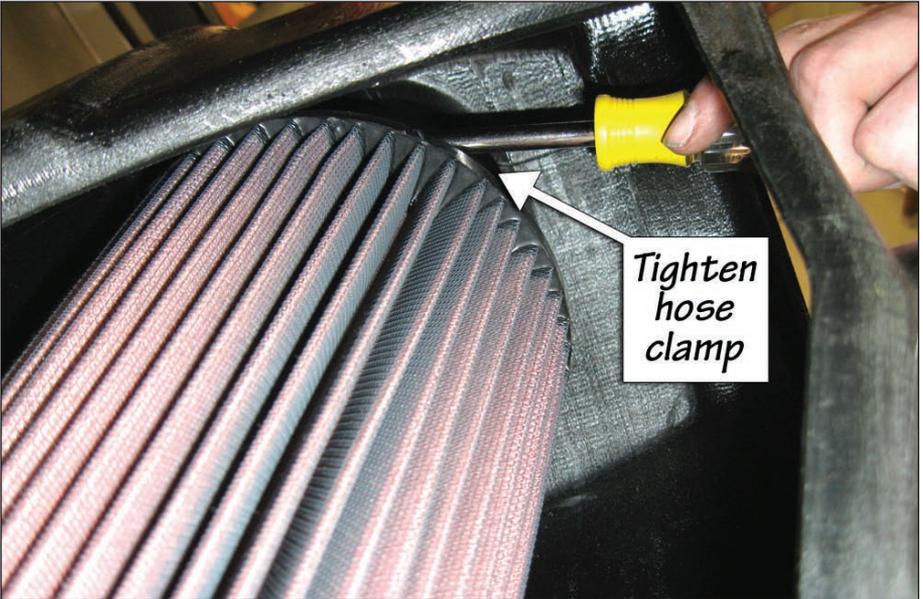
14. Install the hose and two hose clamps onto the intake tube where it will attach to the throttle body.

15. Lower Banks intake tube and housing into place and connect the AIT sensor connector to the sensor before install the intake tube.

Figure 6- Installation of AIT rubber grommet



Figure 7- Connecting air filter with intake tube



16. Insert Banks intake tube into the throttle body opening first. Then, insert the three Banks air filter housing mounting pegs onto the stock grommets.

NOTE: Be sure that the mounting pegs have been properly inserted onto the grommets.

17. Tighten the two hose clamps that connect the Banks Ram-Air intake tube to the throttle body.

18. Re-Install the CCV vent hose connection to the Banks Ram-Air intake tube.

19. Locate supplied hose clips and clip on the coolant over flow hose. Re-use the existing bolts and secure the hose clips to the radiator. See **Figure 8**.

20. Locate and unwrap Banks logo plate and install onto Banks intake tube using the supplied Button head screw. See **Figure 8**.

21. Re-install the engine cover. Make sure cover is installed correctly.

22. You have successfully completed the installation of the Banks Ram-Air Intake system. Make sure to go over all hose clamps for tightness and connectors for a sure fit. Make sure that the intake tube is not touching any engine components.

-END, SECTION 2-

Figure 8- Installed Banks Ram-Air Intake System



Section 3

FILTER MAINTENANCE

Notification

The Banks Ram-Air Filter comes pre-oiled and no oiling is necessary for initial installation. Service the filter as specified in steps 1-2.

1. Service Banks Ram Air Filter every 50-100,000 miles on street-driven applications. Service more often in off-road or heavy-dust conditions.

2. Use Banks Ram Air Filter cleaning system (part # 90094), available from Gale Banks Engineering to service the Air Filter. Follow the instructions included with the cleaning system to clean and re-oil your Banks Ram Air Filter. No gasoline cleaning, No steam cleaning, No caustic cleaning solutions, No strong detergents, No high pressure car wash, No parts cleaning solvents. Any of these No's can cause harm to the cotton filter media plus SHRINK and HARDEN the rubber end caps.

CAUTION! Extremely fine dust from agriculture or off-road use will pull the oil from the element. Frequent re-oiling of the element's clean side might be required. Completely service when practicable. For extra protection use an air-filter sealing grease on rubber ends of the element. Service only with Banks Ram-Air-filter cleaner and Banks Ram-Air-filter oil.

-END, SECTION 3-

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