Banks Ram-Air®
Intake System

1994-2002 Dodge 5.9L Cummins

NOTICE: This Banks Ram-Air Intake System is not compatible with the Banks Brake Exhaust Braking System. See page 2.

THIS MANUAL IS FOR USE WITH KIT 42225 & 42225-D

Gale Banks Engineering
546 Duggan Avenue • Azusa, CA 91702
(626) 969-9600 • Fax (626) 334-1743

Product Information & Sales: (888) 635-4565
Customer Support: (888) 839-5600
Installation Support: (888) 839-2700

bankspower.com

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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 4:00 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. This manual contains 12 pages of copy, illustrations and parts listing. If any pages are missing from this manual please call Gale Banks Engineering immediately for a replacement.

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.

**NOTICE:** This Banks Ram-Air Intake System is not compatible with the Banks Brake Exhaust Braking System.

If you purchased this product in error, please contact your place of purchase for a refund.
**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.

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

**Tools Required:**
- 10mm socket wrench
- Phillips head screwdriver
- 5/16 in nut driver
- Clean shop towels or rags

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Section 1
GENERAL ASSEMBLY

Figure 1
### Bill Of Materials

<table>
<thead>
<tr>
<th>P/N</th>
<th>Item</th>
<th>Description</th>
<th>QTY</th>
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<tr>
<td>42226</td>
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<td>Housing, Ram-Air Filter</td>
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<td>42188/42188-D</td>
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<td>Air Filter Element, Ram-Air System</td>
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<td>42228</td>
<td>3</td>
<td>Intake Tube, Ram-Air</td>
<td>1</td>
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<td>42227</td>
<td>4</td>
<td>Cover, Ram-Air Housing</td>
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<td>5</td>
<td>Hose, Compressor Inlet</td>
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<td>6</td>
<td>Edge-Grip Seal</td>
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<td>7</td>
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<td>Hose Clamp, #104</td>
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<td>9</td>
<td>Washer, 6mm</td>
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<td>91771</td>
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<td>Nut, Nylock 6mm</td>
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<td>91226</td>
<td>11</td>
<td>Screw, Phillips 3/4”</td>
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<tr>
<td>91241</td>
<td>12</td>
<td>Screw, Phillips 1.0”</td>
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**Section 2**

**RAM-AIR INSTALLATION**

*NOTICE*: The Banks Oiled 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.

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 care when removing stock air intake components to not damage them.

1. Loosen hose clamp on stock intake tube at turbo charger compressor connection. See **figure 2**

2. Unclamp stock airfilter lid and remove lid and tube from vehicle. See **figures 2,3**

3. Remove air filter.

4. Loosen the 3 plastic retaining nuts and remove stock airfilter housing from vehicle. See **figure 4**

5. Connect edge grip seal (item 6) onto Banks Filter Housing (item 1). See **Figure 5**.

6. Install Banks Filter Housing (Item 1) into vehicle using the supplied washers and 6mm lock-nuts (Items 9,10).

7. Install the hose (Item 5) and two hose clamps (Item 7) onto the Banks intake tube (Item 3) where it will attach to the turbocharger compressor.

*Figure 2- Removal of Stock intake*
Figure 3- Removal of Lid and Tube

Figure 4- Removal of filter housing bottom

Remove plastic retaining nuts.
8. Install Banks filter hose clamp (Item 8) onto the Banks filter cuff (Item 2). Place Banks Filter into Banks filter housing.

9. Install the Banks Intake tube onto the turbocharger compressor, do not tighten hose clamps at this time.

10. Attach Banks Filter onto Banks intake tube. See Figure 6.

11. Align Banks tube and filter to fit correctly into Banks filter housing. Tighten hose clamps at filter and turbocharger compressor connections.

12. Place Banks Cover onto Ram-Air Housing and fasten with the 3 supplied Phillips head screws, with the 2 shorter screws placed near the engraved “Banks Ram-Air” logo.

13. Reconnect negative battery cable. 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 6- Connect Banks Filter to Tube

Figure 7- Installed Banks Ram-Air Intake System
Section 3
AIR FILTER CLEANING INSTRUCTIONS

OILED AIR FILTER ONLY

**NOTICE**: The Banks Ram-Air Oiled Air Filter comes pre-oiled and no oiling is necessary for initial installation. 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 Bank Ram-Air Oiled Air Filter.

1. PRE-CLEANING
Tap the element to dislodge any large embedded dirt, then gently brush with a soft bristle brush. **NOTE**: If complete cleaning is not practical at this time, reoil the element and reinstall in your vehicle.

2. SPRAY-ON CLEANING
Spray air-filter cleaner liberally onto the entire element and let soak for 10 minutes.

3. PAN CLEANING
Large air-filter elements can be rolled or soaked in a shallow pan of air-filter cleaner. Remove immediately and let soak for approximately 10 minutes.

**NOTICE**: NEVER use gasoline, steam, caustic solutions, strong detergents, high-pressure nozzles, or cleaning solvents to clean the filter element. All of these can cause harm to the filter media as well as SHRINK and HARDEN the rubber end caps.

4. RINSING
Rinse off the element with low-pressure water. Tap water is okay. Always flush from the clean side to dirty side. This removes the dirt and does not drive it into the filter.

5. DRYING
Always dry naturally. After rinsing, shake off all excess water and let the element dry naturally.

6. AEROSOL OILING
After cleaning air filter always reoil before using. Spray air filter oil down into each pleat with one pass per pleat. Wait 10 minutes and re-oil any white spots still showing.

7. OILING HINTS
Never use a Banks Ram-Air filter without oil (the filter will not stop the dirt without the oil). Use only air filter oil. Air-filter oil is a compound of mineral and animal oil blended with special polymers to form a very efficient tack barrier. Red dye is added to show just where you have applied the oil. Eventually the red color will fade but the oil will remain and filter the air. NEVER USE Automatic Transmission Fluid. NEVER USE Motor Oil. NEVER USE Diesel Fuel. NEVER USE WD40, LPS, or other light-weight oils.

8. REINSTALL
Reinstall your Banks Ram-Air filter element with proper care. Make sure the element seats properly in the filter case. Install the cover making sure it’s in the right position. Tighten all the nuts, bolts, screws or clips to factory specifications.

9. DO NOT DISCARD
Affix the “Do Not Discard” sticker to the filter case (included with every Banks replacement element). Make sure you put the sticker in a highly visible place to alert your mechanic not to discard.

10. PERFORMANCE HINTS
Service every 50-100,000 miles on
street-driven applications. Service more often in offroad or heavy-dust conditions. If an air-filter restriction gauge is installed, then change the element when the air-filter restriction reaches 18”–H2O.

**CAUTION**: Extremely fine dust from agriculture or offroad use will pull the oil from the element. Frequent reoiling 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 air-filter cleaner and air-filter oil.

**DRY FILTER CLEANING**

Clean every 50-100,000 miles on street-driven applications. Clean more often in offroad or heavy-dust conditions. If an air-filter restriction gauge is installed, then change the element when the air-filter restriction reaches 18”–H2O.

1. **PRE-CLEANING**

   Carefully tap the air filter element to dislodge any large embedded dirt or debris.

2. **CLEANING**

   Spray an appropriate DRY AIR-FILTER CLEANER SOLUTION liberally onto both sides of the entire filter element with the majority applied to the dirty side. Soak for 10 minutes. Do not allow the DRY AIR-FILTER CLEANER SOLUTION to dry on the air filter.

   **NOTICE**: NEVER use gasoline, steam, caustic solutions, strong detergents, high-pressure nozzles, or cleaning solvents to clean the filter element. All of these can cause harm to the filter media as well as SHRINK and HARDEN the rubber end caps.

3. **RINSING**

   Rinse the filter element with cool or warm (not hot) water from the clean side out in order to flush the dirt out of the filter. It may be necessary to use your fingers on the hose to apply light water pressure. Repeat steps 2 and 3, until the water flowing through the media is completely clear of any dirt and debris.

5. **DRYING**

   After rinsing, gently shake off excessive water and allow to dry naturally. Re-install the filter onto the intake system, airbox or custom assembly once it is dry or just slightly damp. Follow all original installation instructions.

6. **REINSTALL**

   Reinstall your Banks Ram-Air filter element with proper care. Make sure the element seats properly in the filter case. Install the cover making sure it’s in the right position. Tighten all the nuts, bolts, screws or clips to factory specifications.

7. **DO NOT DISCARD**

   Affix the “Do Not Discard” sticker to the filter case (included with every Banks replacement element). Make sure you put the sticker in a highly visible place to alert your mechanic not to discard.

8. **PERFORMANCE HINTS**

   Service every 50-100,000 miles on street-driven applications. Service more often in offroad or heavy-dust conditions. If an air-filter restriction gauge is installed, then change the element when the air-filter restriction reaches 18”–H2O.

-END, SECTION 3-