Banks High-Flow Boost Tubes
Stock Fitment

2013-2016 Chevy/GMC Turbo-Diesel Pickup Trucks

THIS MANUAL IS FOR USE WITH PART NUMBER 25993

Step-by-step installation video:

iPhone: Point camera at QR code.
Android/Windows: Use QR app or type URL into browser.
bankspower.com/v/install-lml-boost-tubes

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

©2019 Gale Banks Engineering
General Installation Practices

Dear Customer,

If you have any questions concerning the installation of your Banks Intercooler, 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. Before starting work, familiarize yourself with the installation procedure by reading all of the instructions.

2. Throughout this manual, the left side of the vehicle refers to the driver’s side, and the right side to the passenger’s side.

3. Disconnect the negative (ground) cable from the battery (or batteries, if there are two) before beginning work.

4. Route and tie wires and hoses a minimum of 6” away from exhaust heat, moving parts and sharp edges. Clearance of 8” or more is recommended where possible.

5. 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. When raising the front of the vehicle, put the transmission in park (automatic) or reverse (manual), set the parking brake, and block the rear wheels. When raising the back of the vehicle, be sure the vehicle is on level ground and the front wheels are blocked securely.

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.

6. During installation, keep the work area clean. Do not allow anything to be dropped into intake, exhaust, or lubrication system components while performing the installation, as foreign objects will cause immediate engine damage upon start-up.

TOOLS REQUIRED:

- 3/8 Drive ratchet
- Ratchet extension
- Inch and metric deep sockets
- Phillips and flat blade screwdrivers

HIGHLY RECOMMENDED TOOLS:

- Foot-pound torque wrench
- Inch-pound torque wrench

Table of Contents

General Installation Practices ....... 2
1. General Assembly .................... 4

2. Section 1 .................................. 5
   Remove Air Cleaner Box, Baffle, & Fender liners

3. Section 2 .................................. 7
   Install Driver (Left) Side
   Banks High-Flow Boost Tube

4. Section 3 ................................. 8
   Install Passenger (Right) side
   Banks High-Flow Boost Tube

5. Section 4 ................................. 9
   Reinstall Air Cleaner Box, Baffle, & Fender liners
Disclaimer of Liability & Warranty

Gale Banks Engineering Inc., and its distributors, employees, and dealers (hereafter “SELLER”) shall in no way be responsible for the product’s proper use and service. The BUYER hereby waives all liability claims.

The BUYER acknowledges that he/ she is not relying on the SELLER’s skill or judgment to select or furnish goods suitable for any particular purpose and that there are no liabilities which extended beyond the description on the face hereof and the BUYER hereby waives all remedies or liabilities, expressed or implied, arising by law or otherwise, (including without any obligations of the SELLER with respect to fitness, merchantability, and consequential damages) whether or not occasioned by the SELLER’s negligence. The BUYER is responsible to fully understand the capability and limitations of his/her vehicle according to manufacturer specifications and agrees to hold the SELLER harmless from any damage resulting from the failure to adhere to such specifications.

The SELLER disclaims any warranty and expressly disclaims any liability for personal injury or damages. The BUYER acknowledges and agrees that the disclaimer of any liability for personal injury is a material term for this agreement and the BUYER agrees to indemnify the SELLER and to hold the SELLER harmless from any claim related to the item of the equipment purchased. Under no circumstances will the SELLER be liable for any damages or expenses by reason of the use or sale of any such equipment.

The BUYER is responsible to obey all applicable federal, state, and local laws, statutes, and ordinances when operating his/her vehicle, and the BUYER agrees to hold SELLER harmless from any violation thereof.

The SELLER assumes no liability regarding the improper installation or misapplication of its products. It is the BUYER’s responsibility to check for proper installation and if in doubt, contact the manufacturer. The BUYER is solely responsible for all warranty issues from the automotive manufacturer.

The use of this device signifies automatic approval of these conditions.

GALE BANKS ENGINEERING LIMITED WARRANTY

Please see enclosed warranty information card, or go to www.bankspower.com/support/warranty, for warranty information regarding your product. THIS WARRANTY APPLIES ONLY TO THE ORIGINAL CONSUMER PURCHASER OF THIS PRODUCT.

In the event of a defect, GBE will, at its discretion, repair or replace the hardware product with a product of like kind or quality, which may be new or reconditioned, with no charge to the purchaser for parts or labor. GBE’s limit of liability under this limited warranty shall be the actual cash value of the product at the time the purchaser returns the product to GBE for repair less a reasonable amount for usage, as determined by GBE in its sole discretion. The repaired or replaced product will be warranted for 90 days from the date of return shipment, or for the balance of the original warranty, whichever is longer.

GBE warrants that the software included in hardware product will be free from defects in the media for a period of 30 days from the date of shipment and will substantially conform to the then current user documentation provided with the hardware products (including updates thereto). GBE’s sole obligation shall be the correction or replacement of the media or the software so that it will substantially conform to the then-current user documentation. GBE does not warrant the software will meet purchaser’s requirements or that its operation will be uninterrupted, error-free or virus-free. The purchaser assumes the entire risk of using the software.

PURCHASER’S EXCLUSIVE REMEDY UNDER THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY SHALL BE LIMITED TO THE REPAIR OR REPLACEMENT, AT GBE’S OPTION, OF ANY DEFECTIVE PART OF THE UNIVERSAL iDash OR ACCESSORIES WHICH ARE COVERED BY THIS WARRANTY.

REPAIRS UNDER THIS WARRANTY SHALL ONLY BE MADE BY GBE AT ITS FACILITY. ANY REPAIRS BY ANYONE OTHER THAN GBE WILL VOID THIS WARRANTY.
## General Assembly

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Part#</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Banks Boost Tube, Left (Driver)</td>
<td>42332</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Banks Boost Tube, Right (Passenger)</td>
<td>42331</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Hose, Turbo Outlet</td>
<td>94299</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Hump Hose, 3.5” to 3.12” QD (Quick Disconnect)</td>
<td>94311</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Hump Hose, 3.0” to 3.5”</td>
<td>94511</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Hose, 3.5” to Throttle Body Inlet</td>
<td>94312</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>T-Bolt Clamp, 2.5”</td>
<td>92852</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>T-Bolt Clamp, Murray 359</td>
<td>92895</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>T-Bolt Clamp, 3.5” Spring Loaded</td>
<td>92901</td>
<td>4</td>
</tr>
<tr>
<td>10</td>
<td>T-Bolt Clamp, Murray 387</td>
<td>92899</td>
<td>1</td>
</tr>
</tbody>
</table>

### Figure 1

![Diagram of components](image_url)

- **1**: Intercooler Inlet
- **2**: Intercooler Outlet
- **3**: Throttle Body Inlet
- **4**: Turbo Out
- **5**: Intercooler Inlet
- **6**: Turbo Out
- **7**: Intercooler Inlet
- **8**: Turbo Out
- **9**: Intercooler Inlet
- **10**: Intercooler Outlet
Section 1:  
Remove Air Cleaner Box, Baffle, & Fender liners

1. Disconnect the ground cables from both the driver and passenger side batteries. Position the loose cables so that they do not come into contact with their respective battery posts during the installation.

2. Remove air cleaner box assembly. Loosen the hose clamp from the stock intake tube and separate the stock intake tube. Remove the Air Flow (MAF) sensor connector from stock air cleaner box filter cover. Remove stock air cleaner box by lifting the air cleaner box up and out. The bottom of the stock air cleaner box is held in place by rubber grommets. There may be some slight resistance when removing the stock air cleaner box.

   NOTE: Be careful not to damage the connector or the MAF sensor.

   NOTE: Number of sensors may vary with model year.

3. Remove the upper grill baffle. Remove the upper grill baffle that mounts between the grill and radiator cross brace. The baffle is held in place by push-in retainers. The retainers are removed by pulling up on the center pin, then prying the retainer out of it’s hole as shown in Figure 2.

4. Remove the inner fender liners. Remove the pushpin fasteners and bolts from both driver and passenger side fenderwell. Remove the fender liners.

---

**Figure 2**

PULL THE CENTER PIN UP

THEN Pry THE PIN ASSEMBLY OUT
Section 1: Remove Air Cleaner Box, Baffle, & Fender liners, (continued)

5. Remove the air cleaner box support bracket. Remove the three bolt located in the passenger fender well as shown in Figure 3. Remove the two bolts located next to the coolant reservoir leg, and the two bolts on top of the bracket as shown in Figure 4. Pull the bracket down and out towards the rear of the vehicle to remove.

NOTE: The fasteners are accessed through the wheel arch opening. Pull the fender liner down approximately 6 inches once the fasteners are removed. Disconnect the wire harness retaining clips on top of the fender liner, and then remove the fender liner from the vehicle.

Figure 3

Figure 4
Section 2: Install Driver Side (Left) Banks High-Flow Boost Tube

1. Loosen driver side stock boost tube hose clamps on the turbo outlet and intercooler inlet.

   **NOTE:** The factory couplings and clamps will no longer be needed.

2. Pull the Stock boost tube out from the top of the engine.

3. Install silicone hose 5 onto the intercooler inlet side of the tube with both T-bolt Clamps 8 & 9 oriented as shown in Figure 1 (Diagram) and Figure 5.

4. Slip the Banks High-Flow Boost Tube into place through the same opening that the factory tube was removed from step 2. Position the tube in place, slip the end into the silicone hose 5 on the intercooler inlet. See Figure 1 (Diagram).

5. Install silicone hose 3 onto the turbo outlet with both T-Bolt Clamps 7 & 9 and connect with the corresponding end of the boost tube. See Figure 1 and Figure 6.

6. Ensure the boost tube has adequate clearance from all surrounding components. Use a 7/16” or 11mm socket to torque the four T-Bolt clamps to 5ft-lbs (60 in-lbs).

7. Relocate ecu harness. The passenger side boost tube may pinch the orange ecu harness once installed (as seen in Figure 8).

8. Unhook the two clips on top, and one on the side, that hold the protective baffle above the ecu connections as shown in Figure 8.

9. On the innermost connector, slide the red locking tab up and swing the connection hinge up and out to release the connector. Reroute orange harness line above the high pressure line and black wire loom. Reconnect the ecu and protective baffle. See Figure 9.
Section 2: Install Driver Side (Left) Banks High-Flow Boost Tube, (continued)
Section 3: Install Passenger (Right) Side Banks High-Flow Boost Tube

1. Remove intake air temperature sensor. See Figure 10.

Figure 10

2. Loosen passenger side stock boost tube retaining rings on the throttle body inlet and intercooler outlet.

4. Use a small screw driver to rotate the retaining ring to release the tube from the throttle body inlet, and then remove the stock boost tube. See Figure 11

Figure 11

5. Install silicone hose 6 onto the throttle body inlet with corresponding T-Bolt Clamps 8 & 9. See Figure 1 and Figure 12 (Diagram).

Figure 12

6. Install silicone hose 4 onto the intercooler outlet with the corresponding T-Bolt Clamps 9 & 10. See Figure 1 and Figure 13.

Figure 13

7. Insert the passenger side Banks High-Flow Boost Tube, ensuring the correct ends go on their respective hose (See Figure 1).

8. Ensure the boost tube has adequate clearance from all surrounding components and use a 7/16” or 11mm socket to torque the four T-Bolt clamps to 5ft-lbs (60 in-lbs)
Section 4:
Reinstall Air Cleaner Box, Baffle, & Fender Liners

9. Re-install air cleaner box support bracket and air cleaner box.
10. Re-install the intake temperature air sensor.
11. Secure IAT sensor harness as shown in figure 14.

12. Install the upper grill baffle and secure with the push-in retainers that were previously removed. The push-in retainer with the center pin pulled out. Once the retainer is inserted, press the center pin down to secure the retainer.
13. Install the driver side and passenger side fender liner. The charge air temperature before the intercooler approaches 400°F at full load. So, take care to route wiring away from the driver side boost tube and re-install the factory wire retainers on the fender liner.
14. Re-install the connector on MAF sensor at the air cleaner box assembly
15. Re-connect the ground cables on both batteries.