



**BAER**® *Your Complete Performance Brake Supplier!*



## Installation Instructions

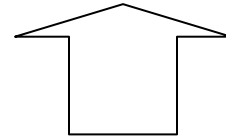
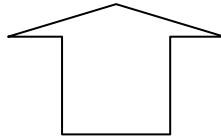
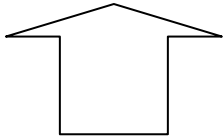
Product: SS4+ 11" Heidt's Drop Spindle

Instruction Part Number: 6000474

### Vehicle

Make: GM  
Model: Full Size  
Year(s): 55-57

***ATTENTION: Read this before going any farther! Returns will not be accepted for ANY installed PART or ASSEMBLY. Use great care to prevent cosmetic damage when performing wheel fit check. In the event that a product must be returned, please contact Baer Customer Service for a RMA Number.***



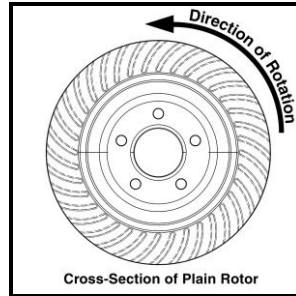
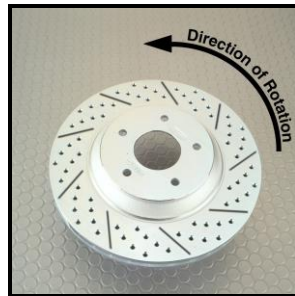
### Notices – Read and Follow BEFORE ATTEMPTING INSTALLATION

- All installations require proper safety procedures and protective eyewear.
- All installations assume basic mechanical skill and a factory service manual for the vehicle on which the installation is to be performed.
- All references to the “left” side of the vehicle correlate to the driver’s side of the vehicle.
- Any installation requiring you to remove a wheel or gain access under the vehicle requires use of jack stands appropriate to the weight of the vehicle. In all cases, jack stands rated for a minimum of 2-tons is recommended.
- A selection of hand tools sufficient to engage in the installation of these products is assumed, and is the responsibility of the installer to have in his/her possession prior to beginning this installation. All installations, which require removal of hydraulic hoses and/or bleeding of the brakes, require appropriate fitting/line wrenches, safety catch can, and protective eyewear. Other than these items, if unique or special tools are required they will be stated appropriately in the installation step.
- ALWAYS CONFIRM WHEEL FIT PRIOR TO BEGINNING INSTALLATION OF ANY BRAKE SYSTEM OR “UPSIZED” ROTOR UPGRADE! In addition to checking wheel fitment, always place the actual corner assembly or a combination of the caliper assembly onto the rotor, and into the actual wheel. This procedure will reconfirm proper clearance between the caliper and the wheel before proceeding with the actual installation.
- Returns will **not** be accepted for systems that have been partially or completely installed. Use extreme care when checking wheel fitment to prevent any cosmetic damage.

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- When installing new Baer rotors, be sure to follow the direction of rotation indicated on the rotor hat area with either an arrow, or an "L" for left, or an "R" for right, or both. "L" or left always indicates the driver's side of US spec vehicles. Images shown are "L" left rotors:



- A proper professional wheel alignment is required for any system requiring replacement of the front spindles, or tie rod ends. Follow factory prescribed procedures and specifications unless otherwise indicated.
- At any point, stop the installation if anything is unclear, or the parts require force to install. Consult directly with Baer Technical Staff in such instances to confirm details. Please have these instructions, as well as the part number of the component (part numbers are machined into the brackets) that is proving difficult to install, as well as the make, model, and year (date of vehicle production is preferred) of your vehicle available when you call.

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### **INSTALLATION:**

1. Disconnect the fluid hose at the frame and cap with the supplied vinyl caps. Using pliers or channel locks, remove the hose lock and slip the hose end out of the frame bracket. See, Figure 1 below for reference:



**Figure 1:** Vinyl cap installed onto hardline

2. Remove all original braking components and ensure the spindle pin is thoroughly cleaned.
3. Ensure bracket mount holes are clean and free of any debris.
4. Once all of the original brake components are removed, and the spindle is cleaned, install the base bracket onto the spindle using the supplied 7/16-20x1.75" bolts and washers. Simply tighten the bolts for now as shimming will need to be performed in the latter portion of installation. See, Figure 2 below for reference:



**Figure 2:** Base bracket installed onto spindle

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5. Install the hub onto the spindle. The bearings are pre-packed with synthetic grease (do not add more grease). Apply a small amount of grease to the hub seal surface and install the hub. Place the bearing washer and castle nut, supplied with your system, on the pin. Tighten the nut to 5-10 ft·lbs and spin the hub to seat the bearings. Loosen and re-tighten the nut while spinning the hub several times. Loosen the nut, tighten to remove all play, tighten approximately 1/16<sup>th</sup> turn to give a small amount of pre-load. Install cotter pin and dust cap.



***Figure 3:*** Hub installed onto spindle

6. Install the correct side rotor and secure with three lug nuts and a washers to prevent scratching the rotor hat.
7. With pads removed, install the correct side caliper using the supplied M12-1.75x35 bolts and washers. Simply tighten the bolts for now as shimming will occur next.

**Note:** All SS4 Calipers are built with dual bleeders for orientation, depending on vehicle setup

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### Shimming Procedure

Measure the gap from the rotor to caliper body at 4 points, top inside and outside, bottom inside and outside. Write down all measurements. Subtract the top inside measurement from top outside. This will require a shim at the top bracket bolt equal to half of this difference to center the caliper. For instance, inside measurement of .865", outside of .905" has a difference of .040 which would require a .020" shim installed to center. Do the same with the bottom measurements to center this also. Getting these gaps as close as possible within .005" will keep the possibility of excessive noise to a minimum. This may require different thickness shims top and bottom.

**Note:** The purpose of shimming is because there are variations in spindle manufacturing and wear at the bearing seat area of the inner bearing.

#### **Procedure**

1. Select the required shims from the kit provided
2. Remove the caliper
3. Loosen the bolts from the base bracket
4. Install the appropriate shims (between the spindle and base bracket), removing one bolt at a time, and snug the same bolts for fit check
5. Reinstall the caliper and recheck gap measurements
6. Re-shim if necessary. When proper shimming has been achieved, torque the base bracket bolts (7/16-20x1.75") to 78 ft-lbs. Finally, torque the caliper bolts to 75 ft-lbs.



**Figure 4:** Location of shims

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8. Install the steel braid banjo hose end with one copper washer on each side of the banjo fitting. Finger tighten the banjo bolt. Connect the hose to the hardline at the frame and install the hose lock. **\*\*IMPORTANT: Position the hose to avoid interference with the wheel and suspension components through the entire range of motion.** Tighten fitting and banjo bolt to 15-20 ft-lbs.
9. Repeat these steps for the other side and recheck all attachment points and fittings.

Refer to Bleeding, and Pad Bedding & Rotor Seasoning Procedures contained on a separate sheet.

For service components and replacement parts contact your Baer Brake Systems Tech Representative.



***Figure 5:*** Completed install