

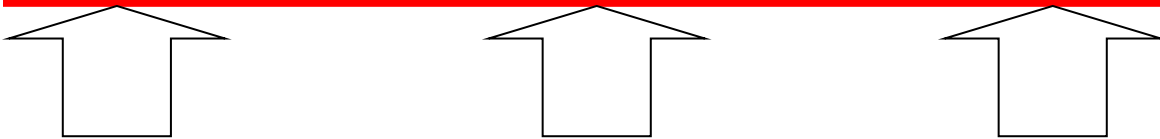
Installation Instructions

Product: Track4 Front, TCI Spindle

Instruction Part Number: 6000528

Revision Date: 16 February 2016

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.



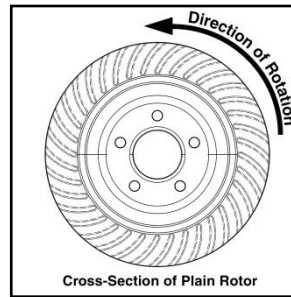
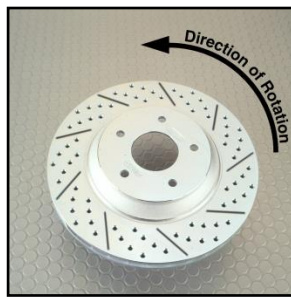
Notices – Read and Follow BEFORE ATTEMPTING INSTALLATION

- 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 (available online at www.baer.com), 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. Baer's Technical Staff is available from 8:30a.m. - 5:00p.m. Mountain Standard Time (Arizona does not observe Daylight Savings Time) by phone: (602)-233-1411 Monday through Friday.

INSTALLATION:

1. Thoroughly clean the spindle pin and bracket mounting surface to ensure proper fitment of the new components. Figure 1 shows the locations of both spindle pin and bracket mounting surface.

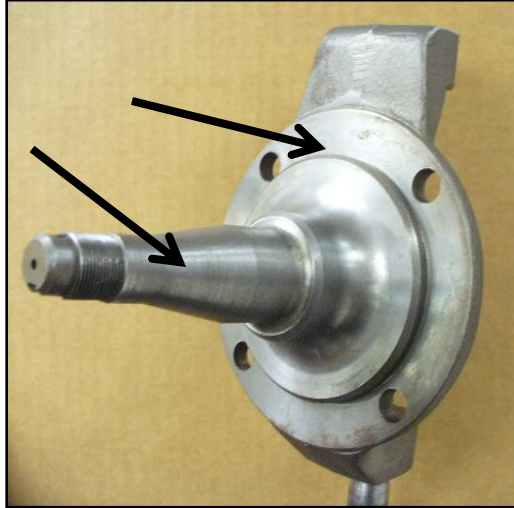


Figure 1: Location of spindle pin and mounting surface

2. Install the Baer base bracket onto the TCI spindle. Baer supplies ½-20x1.5" bolts, washers, and Nylock nuts for the top mounts. The bracket must be installed with the caliper position trailing (towards rear of vehicle). The top bolts will hold the bracket only, the lower bolts will also hold the steering arm and are supplied with the spindle. Torque each bolt to 95 ft-lbs. See Figure 2 for reference. Bolt the Baer intermediate bracket to the base bracket as shown in Figure 2 using the supplied M14-2.00 x 30mm hex bolts and washers. Snug the bolts for now as they will be removed during the shimming procedure.

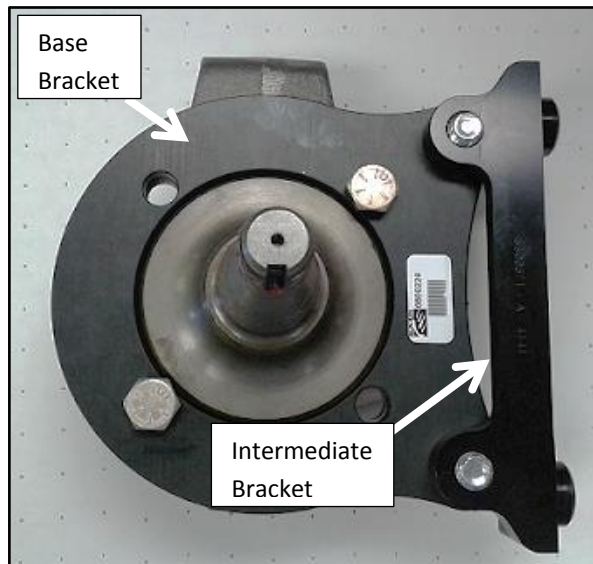


Figure 2: Baer base/intermediate bracket installed

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3. This system contains a new hub which has screw in studs that can be used with different bolt patterns. Determine the correct bolt pattern for the wheel being used then install the studs into the hub from the inboard side. Torque the studs to 85 ft-lbs.
4. Install the hub onto the spindle, making sure that the seal seats properly. 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 1/16th turn more to give a small amount of pre-load. Install cotter pin and dust cap. Figure 3 shows the hub installed onto the spindle.

****Note:** The cotter pin must enter through the spindle pin notch so that clearance issues can be avoided. Figure 4 shows the correct way to install the cotter pin.

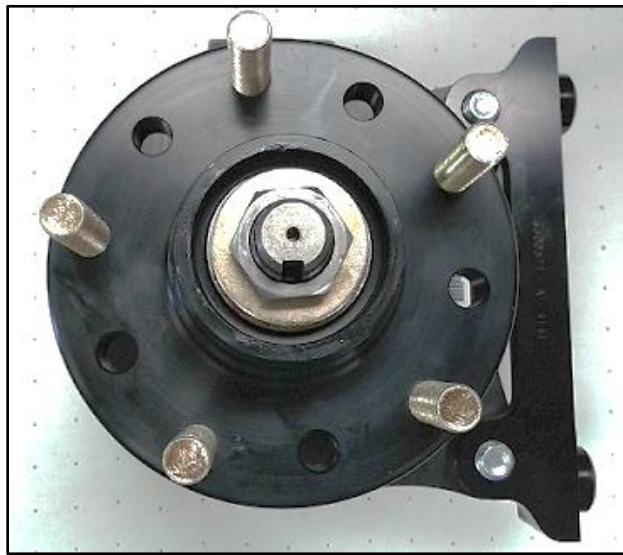


Figure 3: Hub installed onto spindle



Figure 4: Cotter pin installation

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5. Install the Dust Cap supplied with your system.
6. Install the correct side rotor onto the hub and secure with three lug nuts and washers to prevent scratching the rotor. See Figure 5 for reference.



Figure 5: Rotor installed onto hub (drivers side)

7. With the pads removed, using the supplied M12-1.75 x 45m socket head bolts and washers, install the correct side caliper (with bleed screw pointing upward) onto the intermediate bracket. Simply snug the bolts for now as shimming will require removal. See Figure 6 for reference.

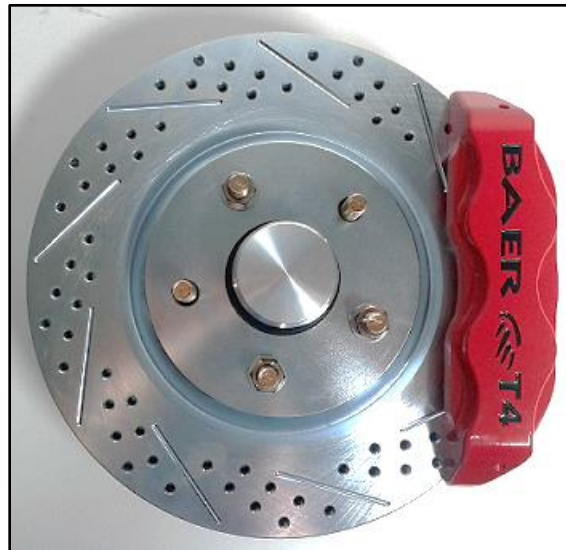


Figure 6: Track4 caliper installed onto bracket (drivers side)

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8. Perform the Shimming Procedure which is located on the last page. When the procedure has been completed continue with the Step 9.
9. Install the brake hose to the caliper using the supplied banjo bolt and copper washer (one copper washer on each side of the banjo fitting). Finger tighten the banjo bolt. *****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.
10. Repeat the procedure for the other side.

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

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

Shimming Procedure

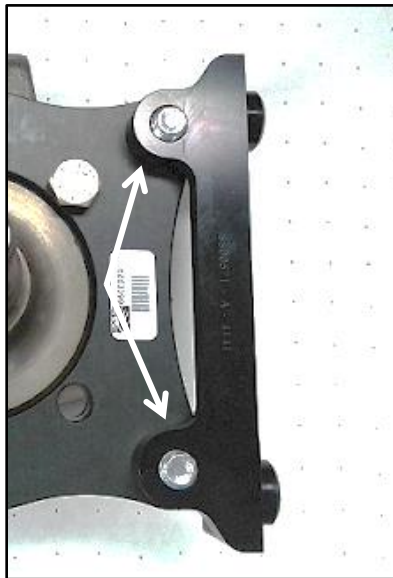
With pads removed from the caliper, measure the gap from the rotor to caliper body at 4 points, top inside and outside, bottom inside and outside. Write down all measurements. Subtract the top inside measurement from top outside. This will require a shim at the top bracket bolt equal to half of this difference to center the caliper. For instance, inside measurement of .905", outside of .865" 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 the caliper centered perfectly is not necessary, but having the gaps as close as possible will give the best defense against noise.

****Note:** The purpose for shimming is due to the machining processes that were once performed in the past. Dimensioning tolerances weren't as necessary as today's standards, which caused variances in spindles.

Procedure

1. Select the required shims from the kit provided.
2. Remove the caliper.
3. Install the appropriate shims (between the base and intermediate bracket), removing one bolt at a time, and snug the same bolts for fit check. See Figure 7 for reference.
4. Re-shim if necessary. When proper shimming has been determined, remove the caliper then torque the intermediate to base bracket bolts to 110 ft-lbs. Install pads, install the caliper then torque the caliper to intermediate bracket bolts to 85 ft-lbs.

If you do not have access to a dial caliper, these measurements can be made with pads installed using a feeler gauge between the rotor and pad. Take measurements from top inside and outside, then bottom inside and outside. Minimum clearance is .010" between pad and rotor, but gaps as close to equal as possible at all four locations is best.



Figures 7: Shim locations