

Strange

Engineering

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Installation instructions for B1716WC (soft metallic) and B1716WCM (hard metallic) Pro Race steel rear brake kits for 67-77 small (OEM) GM housing ends equipped with A1030 Safety Hub kits. See instructions for A1030 for safety hub installation.

Before you begin installation: Strange Engineering brake kits are designed for **DRAG RACING ONLY!** Read these instructions thoroughly and save for future reference. If after reading these installation instructions, you have any ques-

KIT CONTENTS

| <u>Item#</u> | <u>Part#</u> | <u>Qty.</u> | <u>Description</u> |
|--------------|--------------|-------------|--|
| 1a | B2792 | 1 | HD Slotted Right-Hand Rotor |
| 1b | B2793 | 1 | HD Slotted Left-Hand Rotor |
| 2 | B1309B | 2 | Inboard Safety Hub half |
| 3 | B1301E | 4 | 3/8"-24 Press nut (Installed in B1716A/B) |
| 4a | B1716A | 1 | Caliper mounting bracket (Left) |
| 4b | B1716B | 1 | Caliper mounting bracket (Right) |
| 5 | A1030C | 2 | Seal (National #41013S) |
| 6 | B1301H | 16 | 0.025" Thick caliper shim |
| 7 | B1301J | 4 | 1/16" Thick caliper washer |
| 8 | B5000Y | 4 | 3/8"-24 x 1-1/8" Caliper bolt |
| 9a | B5010 | 4 | Soft metallic 4-piston brake pad (B1716WC) |
| 9b | B5020 | 4 | Hard metallic 4-piston brake pad (B1716WCM) |
| 10a | B5002 | 1 | Right-Hand 4 piston caliper |
| 10b | B5004 | 1 | Left-Hand 4 piston caliper |
| 11 | P2316 | 2 | 1/8" NPT x -3AN Fitting (Installed in B5002 & B5004) |

| <u>Item #</u> | <u>Torque Spec (ft-lbs)</u> |
|-------------------|-----------------------------|
| Housing end bolts | 35 |
| 8 | 35 |

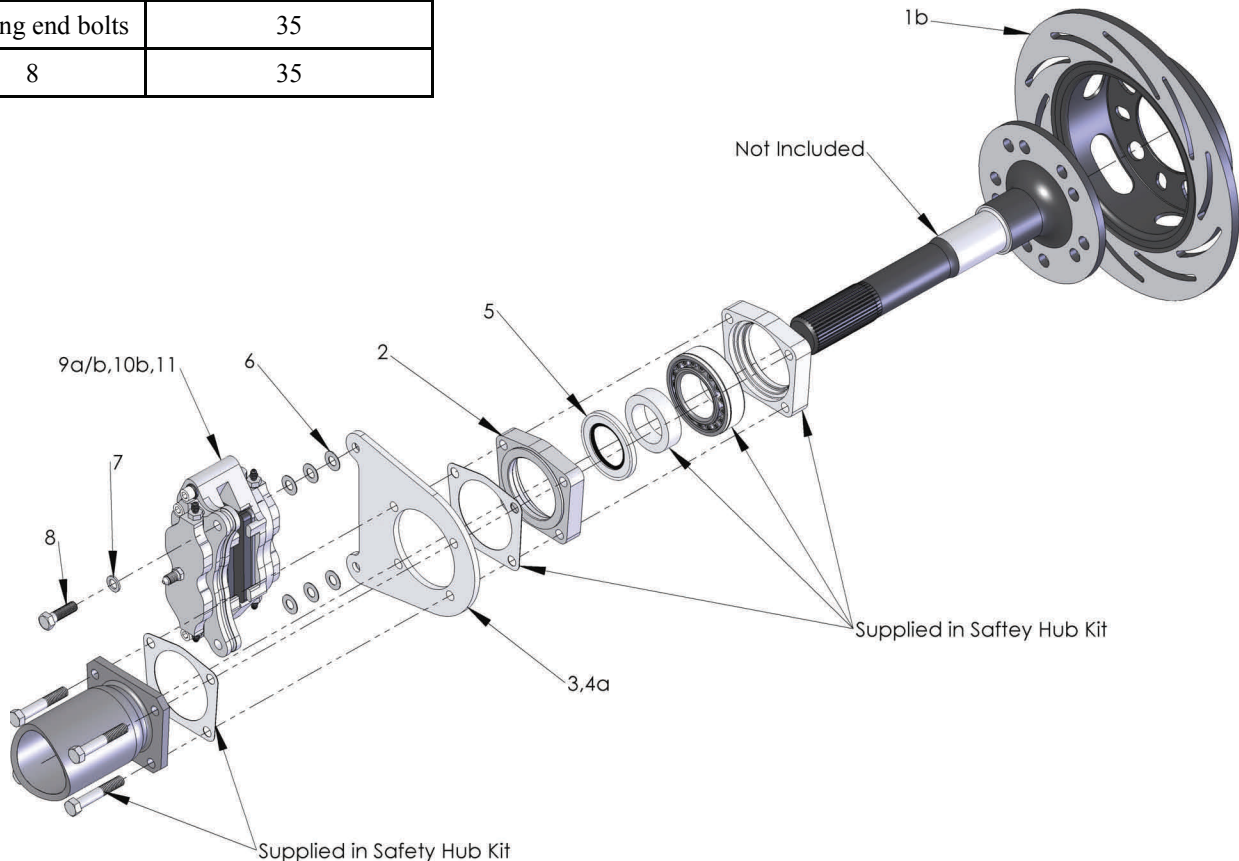


Figure #1 (Note: Driver's side shown)

(turn over)

- 1.) Raise and support rear of vehicle on a level surface using suitable equipment.
 - 2.) Remove wheel, axle, drum, and backing plates from housing.
 - 3.) Consult A1030 safety hub kit instructions to prepare axle if necessary
 - 4.) Check the axle for any signs of twisting or runout and repair or replace as needed. The maximum allowable runout checked between centers at the face of the flange, bearing surface, and near the splines is 0.005" total indicated runout (T.I.R.).
 - 5.) Inspect the rotor (1) for fit on the axle flange. The rotor should slide freely over the axle flange and seat flush against the face of the axle flange. The rotor must center on the axle flange or axle studs. If the axle flange is too large, it must be machined to 6.240" diameter.
 - 6.) Inspect the housing end for straightness and repair as necessary.
 - 7.) Push bolts (A1030D, from Safety Hub Kit) thru housing end flange holes from inboard side of the flange.
 - 8.) Place one gasket (included in S.H.K.) against the housing end and slide the caliper mounting bracket (4) over the housing bolts with the heads of the press nuts (3) facing towards the axle flange. Modify a second gasket to fit around B1309B, or use a pliable "gasket in a tube," such as Permatex Blue[®].
 - 9.) Install new seals (5) in B1309B (2) hub halves. The seals should be inserted with the lettering on the face facing out.
 - 10.) Slide B1309B (2) hub half over the housing end bolts so that the round portion of the hub half fits inside the caliper mounting bracket (4).
 - 11.) Slide axle into the housing and rotate outer hub half to align with housing end bolts. Torque housing end bolts to 35 ft/lbs.
 - 12.) Install rotor over wheel studs and flange, ensuring that the rotor is flush and parallel to the face of the axle flange. Note: Slotted rotors mount with the arrow at the top pointing towards the front of the car, indicating direction of rotation (Figure #2).
- Please read B1850 instructions for complete caliper instructions.**
- 13.) Attach caliper (10) with the arrow facing in the direction of normal rotor rotation using 3/8"-24 caliper bolts (8) and 1/16" thick flat washers (7). Use 0.025" thick caliper shims (6) to center the caliper over the rotor, making sure pads contact the rotor evenly. The caliper bolt (8) should be fully engaged into the press nut. If the bolt is over engaged, use any remaining shims under the head of the bolt to prevent it from running into the rotor. Torque the caliper mounting bolts (8) to 35 ft-lbs.
 - 14.) Connect the brake lines to the calipers. Calipers are tapped to 1/8"-27 NPT and supplied with -3AN fittings. Use proper adapters to connect them to existing lines or use new -3AN braided steel line (teflon lined). Bleed the calipers with DOT 4 or DOT 5.1 brake fluid **ONLY**.
 - 15.) A proper break in procedure is required to avoid brake fade and uneven rotor deposits from the pads. It consists of 8-10 brake applications increasing in harshness while allowing the brakes to cool slightly in between; do not keep the brakes applied between stops. After the last stop the brakes should be allowed to cool completely.

Note: After the initial installation of this kit, ensure that there is adequate clearance between all braking and chassis components by moving the suspension all the way up and down throughout its travel. Additionally, make sure that the brake lines are not interfering with the wheel travel, or subject to binding or kinking. Operate the vehicle in a cautious manner until you determine that the brakes are functioning properly. Routinely check and re-torque all bolts.

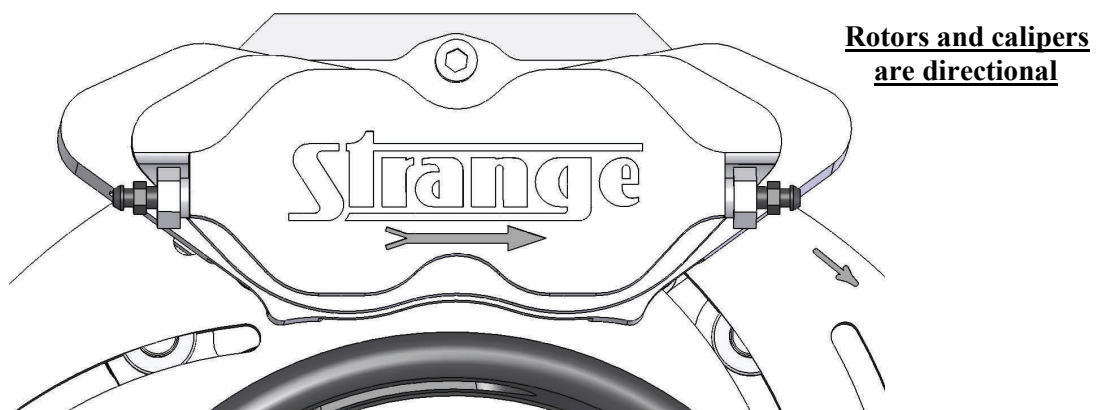


Figure #2

WARNING – RACING IS HAZARDOUS · STRANGE BRAKES ARE FOR LEGAL DRAG RACING ONLY

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