

Installation instructions for B1711WC & B1711WCM rear 4-piston brake kit designed for Strange double ball bearing symmetrical housing ends (H1136).

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 questions or comments, please do not hesitate to call us.

KIT CONTENTS

<u>Item#</u>	<u>Part#</u>	<u>Qty.</u>	<u>Description</u>
1	L4000B	8	3/8-24 x 1-1/2" Bracket Stud
2	S3402N	8	3/8" AN washer
3	F1282	8	3/8-24 "Jet" Nut
4	B1710D	2	Heavy Duty Caliper Bracket for Symmetrical Housing End
5	B1301E	4	3/8-24 Press Nut (Installed in B1710D)
6	B2792	1	Right hand HD/MD directional rotor
7	B2793	1	Left hand HD/MD directional rotor
8	B1301H	16	.025" thick caliper shim
9	B1301J	4	1/16" thick caliper washer
10	B5000Y	4	3/8"-24 x 1-1/8" caliper bolt
11	*B5010	4	Soft 4-piston caliper pad
12	*B5020	4	Hard-metallic 4-piston caliper pad
13	B5002	1	R.H. 4-piston caliper
14	B5004	1	L.H. 4-piston caliper
15	P2316	2	1/8" NPT x -3AN Fitting (Installed in B5002 & B5004)

*Kit contents will vary depending on application to be determined while ordering.

<u>Item #</u>	<u>Torque Spec (ft-lbs)</u>
3	40
10	35

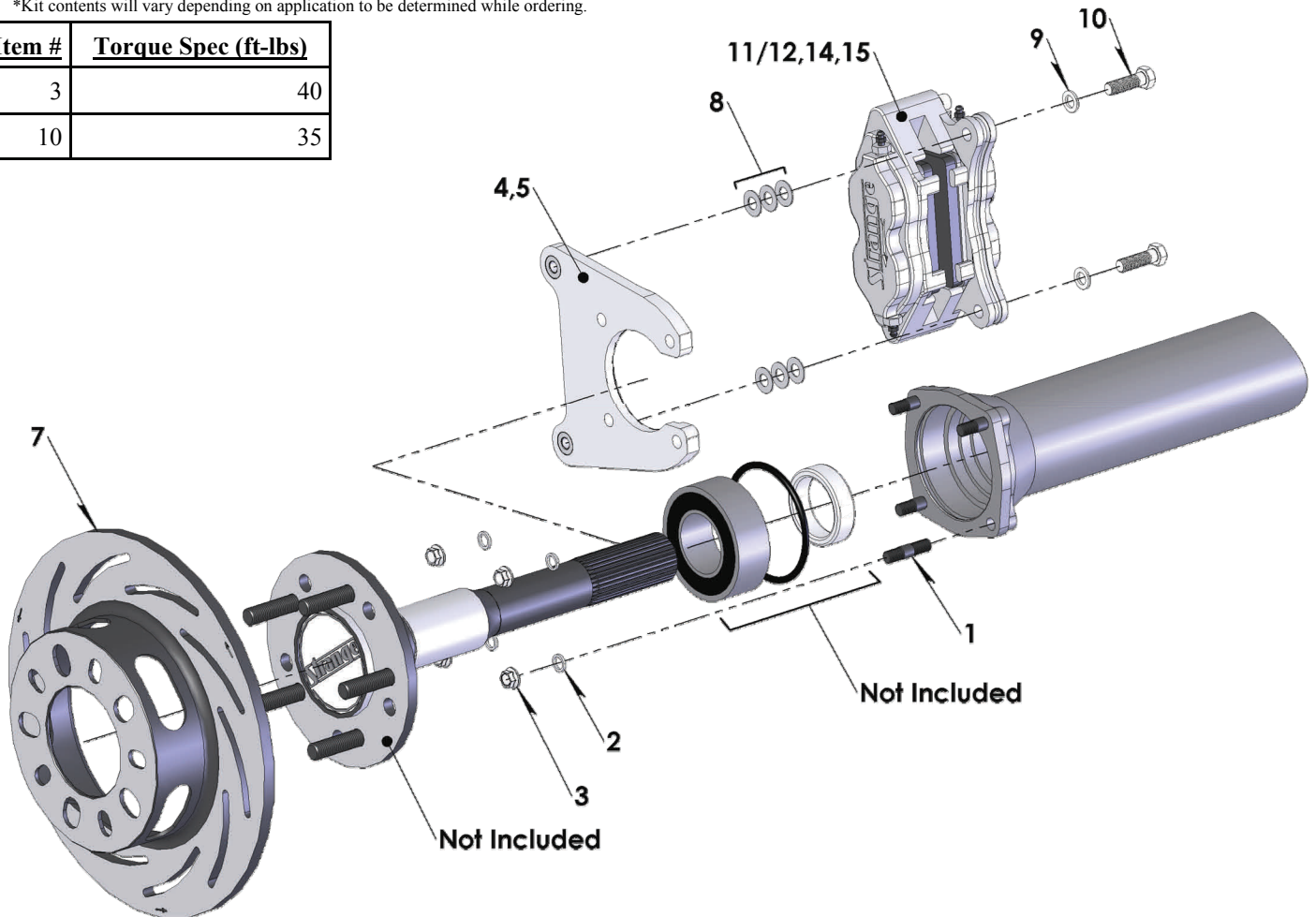


Figure 1: Driver's Side Shown

(turn over)

Installation Instructions

1.) Raise and support rear of vehicle on a level surface using suitable equipment.

2.) Remove wheel, axle, and current brakes.

Note: The slot in the caliper bracket (4) may enable you to install this kit without pulling the bearing and wedding ring from the axle. If you can remove your current brake setup without having to pull the bearings, inspect the bearings for signs of wear. If the bearings do not need to be replaced, then skip steps 3, 5 & 6.

3.) Remove bearing, wedding ring, and caliper bracket from axle.

4.) Check the axle for any signs of twisting or run out and repair or replace as needed.

The maximum allowable run out checked between centers at the face of the flange, bearing surface, and near the splines is 0.005" total indicated run out (T.I.R.).

5.) Install a new bearing (not included) on the axle, pressing only on the inner race.

Before installing apply a small amount of oil to the I.D. of the bearing to aid in installation. Make certain that the bearing fully seats against the step on the axle.

Note: The axle bearing can be installed facing either direction.

6.) Press the wedding ring onto the axle until it seats flush against the bearing.

7.) Install the 3/8-24 studs (1) into the housing end until hand-tight; the *longer* thread length to face **OUTBOARD**.

7.) Install the axle into the housing until the bearing bottoms out in the housing end.

Note: Ensure that the bearing O-ring (not included) is properly installed in the housing end groove before installing the axle/bearing assembly. Improper installation or misalignment of the bearing O-ring may cause oil to leak from the housing.

8.) Inspect the rotor assembly for fit on the axle flange. The rotor should slide freely over the axle flange and seat flush against its face. 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.

9.) Slide the caliper mounting bracket (4,5) on the axle with the press nuts (5) facing **OUTBOARD** and engage over the 3/8-24 studs (1).

Note: The bracket (4) can be mounted so that the caliper is located facing the front, rear or straight up, depending on application or desired orientation.

10.) Install caliper bracket (4) using the 3/8" AN washer (2) and 3/8-24 "jet" nut (3). Torque to 40 ft-lbs.

11.) Slide the rotor (6,7) over the wheel studs and axle flange, ensuring that the rotor sits flat on the face of the axle flange.

- Please read B1850 instructions for complete caliper instructions if using soft pads.

- Please read B1855 instructions for complete caliper instructions if using hard-metallic pads.

12.) Attach caliper (13,14) with the arrow facing in the direction of normal rotor rotation using 3/8"-24 caliper bolts (10) and 1/16" thick flat washers (9). Use 0.025" thick caliper shims (8) to center the caliper over the rotor, making sure pads contact the rotor evenly. The caliper bolt (10) should be fully engaged into the press nut (5). 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 (10) to 35 ft-lbs.

13.) 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**.

14.) A proper break in procedure is required to avoid break 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 between; do not keep the brakes applied between stops. After the last stop the brakes should be allowed to cool completely.

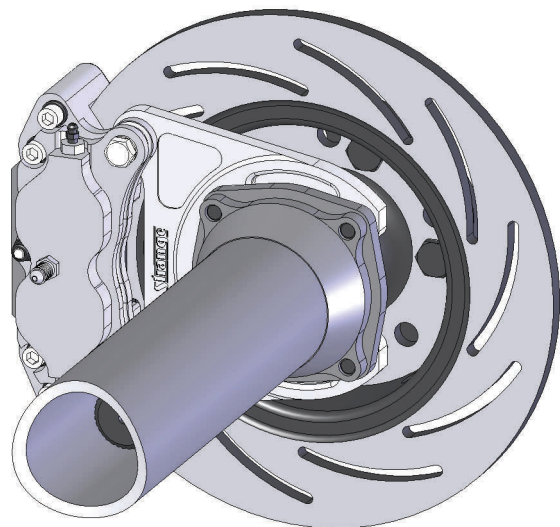
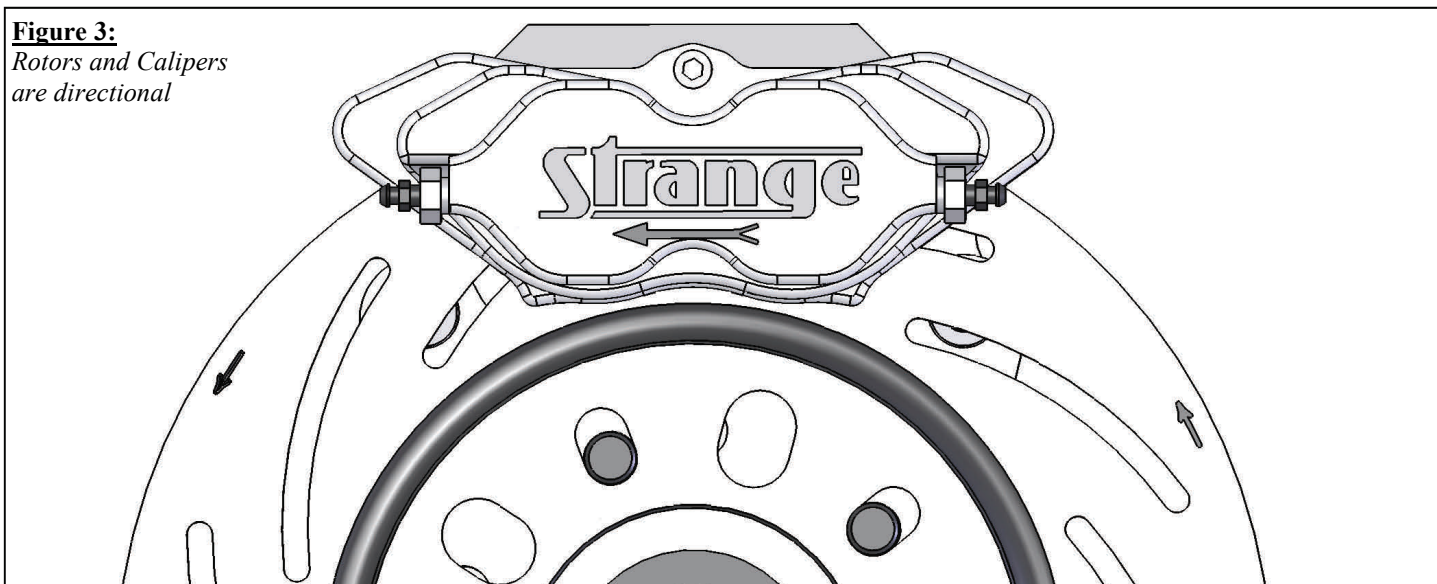


Figure 3:

Rotors and Calipers are directional



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