

# Strange

*Engineering*

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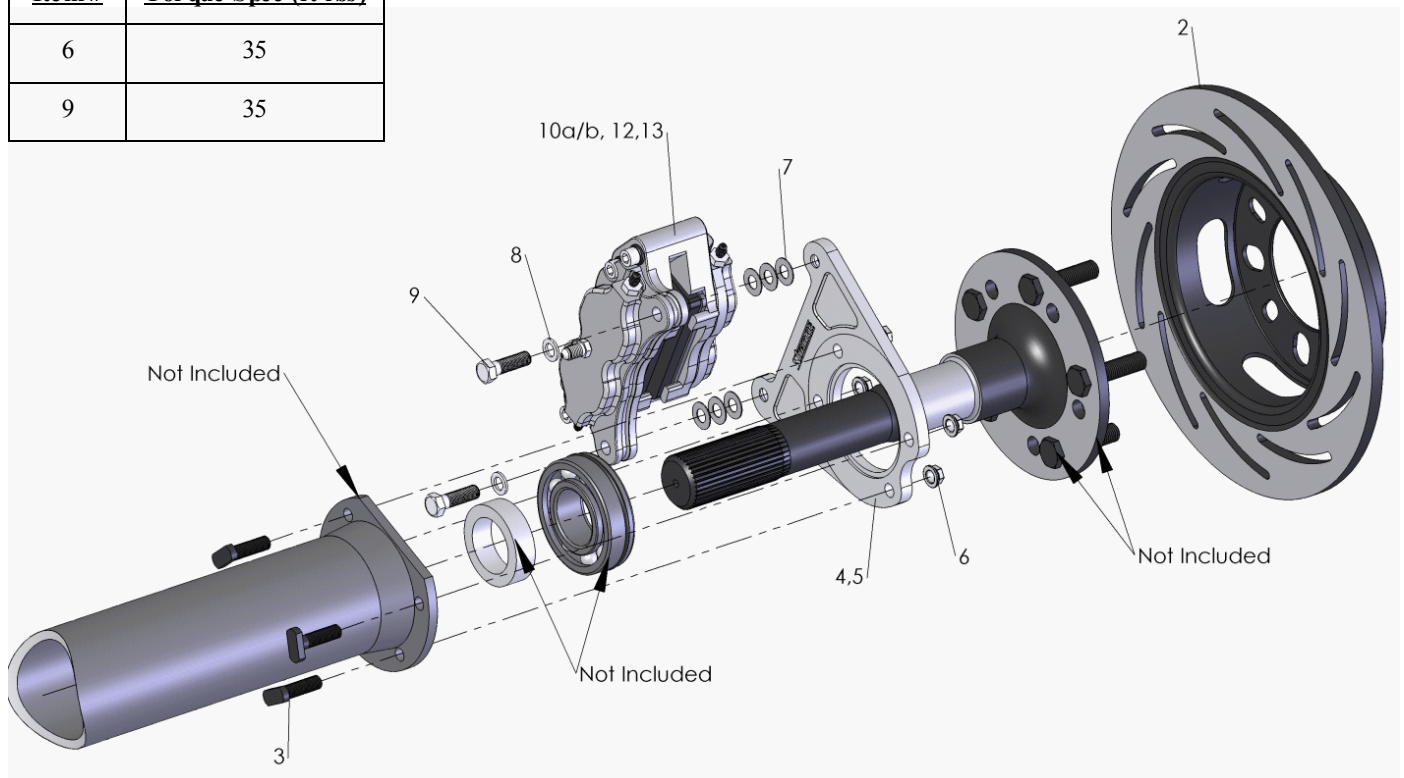
**Installation instructions for B1712WC (soft metallic) and B1712WCM (hard metallic) Pro Race steel rear brake kit for Small Ford (Mustang—2.835" ID) style housing ends.**

**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	B2792	1	HD Right hand rear rotor
2	B2793	1	HD Left hand rear rotor
3	B1300H	8	3/8"-24 x 1-1/4" T-bolt
4	B1301E	4	3/8"-24 Press nut (Installed in B1700A)
5	B1308A	2	Early Mustang caliper mount
6	F1282	8	3/8"-24 Jet nut
7	B1301H	16	0.025" Thick caliper shim
8	B1301J	4	1/16" Thick caliper washer
9	B5000Y	4	3/8"-24 x 1-1/8" Caliper bolt
10a	B5010	4	Soft metallic 4-piston brake pad (B1712WC)
10b	B5020	4	Hard metallic 4-piston brake pad (B1712WCM)
11	B5002	1	Right hand 4-piston caliper
12	B5004	1	Left hand 4-piston caliper
13	P2316	2	1/8" NPT x -3AN Fitting (Installed in B5002 & B5004)

<u>Item #</u>	<u>Torque Spec (ft-lbs)</u>
6	35
9	35

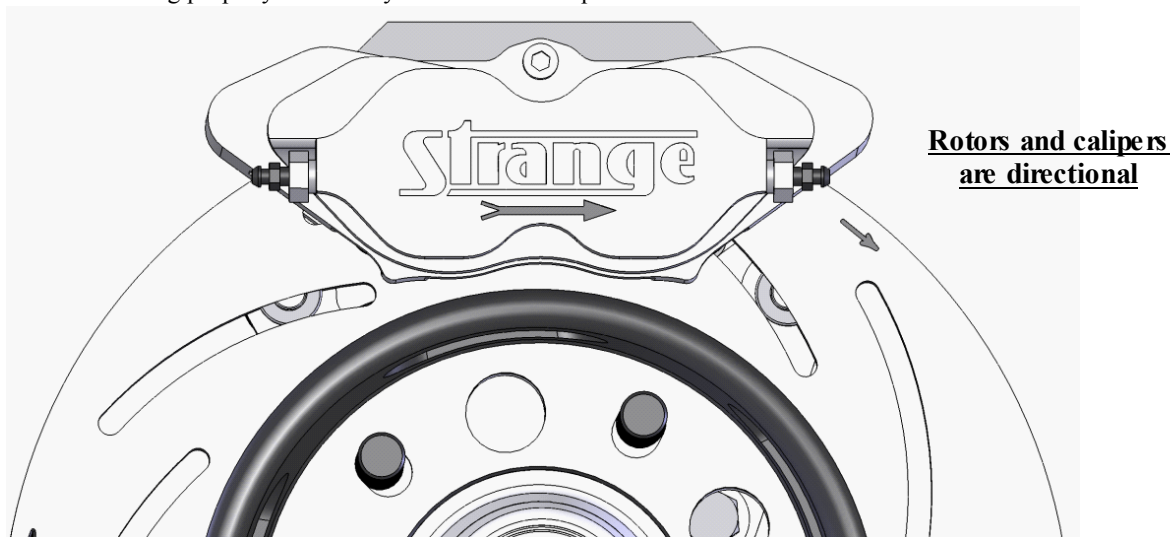


**Figure #1** (Note: Driver's side shown)

(turn over)

- 1.) Raise and support rear of vehicle on a level surface using suitable equipment.
  - 2.) Remove wheel, drum, axle, brake line, and backing plate assembly from rear end housing.
  - 3.) Remove bearing, wedding ring, and bearing retaining plate from axle and discard all three.
  - 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.) Inspect the rotor (1, 2) 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. Note: With factory or stock axles, ensure that wheel studs do not interfere with rotor seating.
  - 6.) Inspect the housing end for straightness and repair as necessary.
  - 7.) Replace housing end studs with new T-bolts (3).
  - 8.) Slide the caliper mounting bracket (5) on the axle with the press nuts (4) facing the axle flange.
  - 9.) Install a new bearing on the axle, pressing only on the inner race making sure the seal faces the axle flange. 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.
  - 10.) Press the wedding ring onto the axle until it seats flush against the bearing.
  - 11.) Install the axle into the housing until the bearing bottoms out in the housing end.
  - 12.) Slide the caliper mounting bracket (5) over the T-bolts (3). The bracket can mount towards the front or rear of the car.
  - 13.) Install the jet nuts (6) on the T-bolts (3) and torque to 35 ft-lbs.
  - 14.) Slide the rotor (1, 2) over the wheel studs and axle flange, ensuring that the rotor sits flat on the face of the axle flange. *Note:* Slotted rotors mount with the arrow pointing in the direction of normal rotation (See Figure #2).
- Please read B1850 instructions for complete caliper instructions.**
- 15.) Attach caliper (11, 12) with the arrow facing in the direction of normal rotor rotation using 3/8"-24 caliper bolts (9) and 1/16" thick flat washers (8). Use 0.025" thick caliper shims (7) to center the caliper over the rotor, making sure pads contact the rotor evenly. The caliper bolt (9) 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 (9) to 35 ft-lbs.
  - 16.) 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 **ONLY** brake fluid.
  - 17.) 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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