

Strange

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Jun 13, 2017

PRO SERIES 4-PISTON FRONT BRAKE KIT INSTRUCTIONS

KIT #
B4152WC - 05-14 Mustang
B4186WC - 15-16 Mustang

APPLICATIONS
05'-16' Ford Mustang using
4-1/2" Bolt Circle Wheels

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.

Note:

- This kit does not retain the use of ABS.
- B2795/B2796 (11-1/4" steel rotors) have a 0.355" start out thickness and minimal thickness of 0.312".
- Also consult installation instructions for B1850 four piston caliper kit.

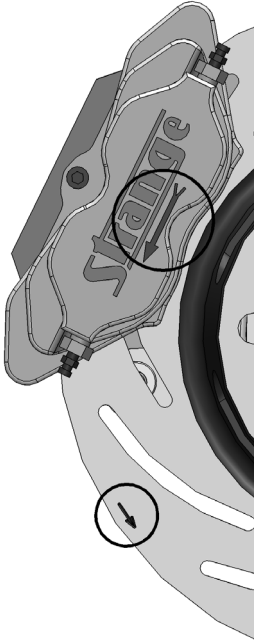
KIT CONTENTS			
ITEM#	PART#	QTY	DESCRIPTION
1	B4154EB	2	Hub cap
2	S3520F	2	O-ring
3	B4152G	2	Spindle nut
4	B2796	1	Drive side tapered rotor
4b	B2795	1	Passanger side tapered Rotor
5	B4152B	2	Front hub
6	A1028B	10	1/2" washer
7	A1028A	10	1/2"-20 x 2-1/2" Wheel stud
8	B4152I	2	Outer Bearing Sleeve (installed in B4152B)
9	B4152C	2	Hub Bearing (installed in B4152B)
10	B4152H	2	Inner Bearing Sleeve (installed in B4152B)
11	B4152D	2	Hub Bearing Retainer Ring (installed in B4152B)
12	B4152E	2	M12 x 1.75 x 40mm Caliper Bracket Bolt
13a	B4152AL	1	Driver side Caliper Mount Bracket
13b	B4152AR	1	Passenger side Caliper Mount Bracket
14	B1301E	4	3/8"-24 Press Nut (installed in B4152AL/B4152AR)
15	B1301H	16	3/8" I.D. x .025" Thick Caliper Shim
16	B5002	1	Four Piston Caliper Passenger Side
17	B1301J	4	3/8" I.D. x 1/16" Flat Washer
18	B5000Y	4	3/8"-24 x 1-1/8" Caliper Bolt
19	B4152F	2	M12 x 1.75 Nylon lock Nut
20	B5004	1	Four Piston Caliper Driver Side
21	B5010	4	Organic Brake Pads
22	P2316	2	-1/8 NPT x #3AN Brake Line Fitting (installed in 5002/5004)
23	B4152K	2	0.645" Caliper mount spacer (B4186WC Only)

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

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Installation instructions

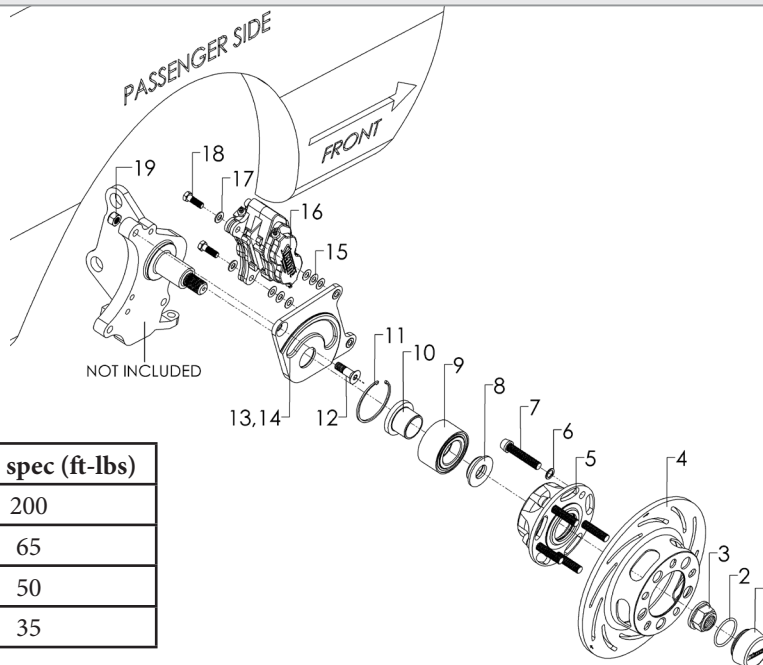
Figure # 1



1. Raise and support front of vehicle on a level surface using suitable equipment.
2. Remove the stock wheel, brake lines, caliper, rotor, spindle nut, hub, and dust shield.
3. Clean the spindle and inspect suspension components for damage. Repair as needed.
4. Slide the caliper mounting bracket (13) over the spindle with the heads of the press nuts (14) facing outboard.
5. Slide the caliper bracket bolt (12) through the caliper bracket (13) and top caliper bracket hole on the knuckle.
Note: A spacer (23) will be required between the caliper bracket (13) and the knuckle if using B4186WC.
6. Install the nylon lock nut (19) and torque the caliper bracket bolt (12) to 50 ft-lbs.
7. Install wheel studs (7) in the front hub (5) with 1/2" washers (6). Use BLUE Loc-tite® on the studs (7).
Torque all studs (7) to 65 ft-lbs.
8. Slide the front hub (5) with the pre-installed hub bearing (9), retainer ring (11) and sleeves (8,10) onto the spindle.
9. Install the spindle nut (3) and torque to approximately 200 ft-lbs.
10. Install the hub cap (1) with the o-ring (2).
11. Slide the rotor (4) over the wheel studs flush to the face of the hub (5).
Note: Slotted rotors mount with the arrow pointing in the direction of normal rotation (See Figure #1)
12. Attach the caliper (16) to the caliper mounting bracket (13) using the caliper bolts (18), flat washers (17), and shims (15). The arrow on the caliper must face the normal rotation of the rotor and wheel. (See Figure #1)
Torque caliper bolts to 35 ft-lbs.
Notes: The number of shims (15) installed will vary because not all spindles are exactly identical. Therefore, determine the proper amount of shims by positioning the caliper as closely as possible to the center of the rotor. Also, note that the passenger and driver side do not necessarily use the same amount of shims.
13. Connect the hydraulic 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 . Mount the tire and wheel.

Notes: After the initial installation of this kit, ensure that there is adequate clearance between all braking and chassis components by turning the wheels all the way left to right and moving them all the way up and down throughout the length of the wheel (suspension) travel. Additionally, make sure that the brake lines are not interfering with the wheel travel, or subject to binding or kinking. 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. 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: Exploded B4152WC Assembly View



Item#	Torque spec (ft-lbs)
3	200
7	65
12	50
18	35