**EVOLUTION 4-PISTON
FRONT BRAKE KIT
INSTRUCTIONS****KIT #**
B4131WCE**APPLICATIONS**
'65-'79 F100 & F150
with factory disc brake spindles**Evolution Rotors**

- Dynamic Drive Mount (DDM) system secures the rotor and allows for rotor thermal expansion
- DDM system design is secured by an internal Spirolox, eliminating heavy bolts and hardware
- Unique Aero Slot design reduces rotating weight and promotes even heat dissipation

Before you begin installation:

-Strange Engineering brake kits are designed for DRAG RACING ONLY!

-This kit moves the wheel mounting surface outboard by 0.676". Verify wheel fitment before installing.

-Read these instructions thoroughly and save for future reference.

-Brake fittings do not come pre-installed, it will need a layer of Teflon sealer applied to the thread (Figure# 2 for torque specs)

-If after reading these installation instructions, you have any questions or comments, please do not hesitate to call us.

KIT CONTENTS

ITEM#	PART#	QTY	DESCRIPTION	ITEM#	PART#	QTY	DESCRIPTION
1	B4154E	2	Hub cap	13	B1729A	2	Wheel Seal (C/R19748)
2	S3520F	2	O-ring	14	B1757B	2	3/8-16 x 1-1/4" HHCS
3	B2794B	2	2-Piece rotor adapter	15	B1320R	2	3/8-16 x 1-1/2" HHCS
4	B2798AS	2	Evolution S Rotor	16	S3402N	4	3/8 AN washer
5	B2794D	2	Spirolock	17	B4131A	2	Caliper bracket
6	B1330D	2	Outer bearing cone (LM12749)	18	B1301E	4	Press nut
7	B1330C	2	Outer bearing cup (LM12710)	19	B4131C	2	Lower Caliper mount Spacer
8	B4158FF100	2	"CB" Front hub	20	B4131B	2	Upper Caliper mount Spacer
9	A1028B	10	1/2" Stripper washer	21	B1301H	16	Shim
10	A1028A	10	1/2-20 x 2-1/2" Taper head SHCS	22	B1900	2	Billet Caliper
11	B1330A	2	Inner bearing cup (L68110)	23	B5010	4	Semi Metallic Strange 4-Piston caliper pad
12	B1330B	2	Inner bearing cone (L68149)	24	P2316	2	-1/8NPT x #3AN fitting
				25	B1301J	4	Washer
				26	B5000Z	4	3/8-24 x 1.125 HHCS
				-	P2316C	2	Plastic cap for #3AN fitting

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

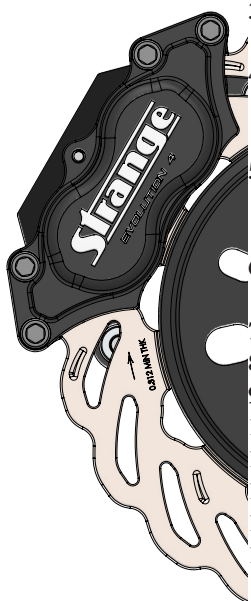
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Installation instructions

Figure # 1



1. Raise and support front of vehicle on a level surface using suitable equipment.
2. Remove wheel, and stock disk brake components. Inspect all bushings for excessive play and replace as needed.
3. Install 1/2" Dia. wheel studs (10) in front hub (8) using 1/2" I.D. wheel stud washer (9) and a small amount of BLUE Loc-tite®. Torque all studs to 65 ft-lbs.
4. Modify knuckle using Figure #3 as reference.
Place the two provided spacers, upper (20) and lower (19) on the knuckle. Securing the caliper mounting bracket (17) using the two 3/8"-16 bolts (14,15) and washers (16). (Refer to Figure #2 to ensure correct placement)
5. Pack the inboard (12) and outboard bearing cone (6) with a suitable wheel bearing grease.
Note: A bearing packer is recommended for this procedure; If one is not available work as much grease as possible into the cage and around the rollers.
6. Wipe a thin layer of wheel bearing grease on the bearing surface of the inner and outer cups (7,11) and then place inner bearing cone (12) into the front hub (8).
7. Press the hub seal (13) into the inboard side of the hub (8) flush to the outer face of the hub.
8. Slide the hub assembly onto the spindle, then slide the outer bearing cone (6) into the hub.
9. Install the stock key washer and the spindle castle nut.
10. Mount the wheel and tire assembly on the hub and snug the lug nuts.
11. While rotating the wheel, torque the spindle nut to approximately 20 ft-lbs.
12. Loosen the spindle nut until the wheel spins freely and there is no end play.
13. Install the cotter pin, aluminum hub cap (1), and remove the wheel and tire.
14. Slide the Evolution rotor (3,4,5) over the wheel studs flush to the face of the hub (8).
Note: Evolution rotors mount with the arrow pointing in the direction of normal rotation (See Figure #1).
- Please read B1900 instructions for complete caliper instructions.
15. Attach caliper (22) using 3/8"-24 caliper bolts (26) with red loctite and 3/8" I.D. washers (25). Use 3/8" I.D. caliper shims (19) to center the caliper over the rotor, making sure pads contact the rotor evenly. Torque the caliper mounting bolts (26) to 35 ft-lbs.

16. 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: 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 B4131WCE Assembly View (Passanger side)

FIGURE # 3: Knuckle modification

