



PRO SERIES 4-PISTON FRONT BRAKE KIT INSTRUCTIONS

KIT #
B4112WCE - '67-'69 Camaro
kit for disc spindles

APPLICATIONS
1973-1974 Apollo, 1967-1969 Camaro/Firebird
1967-1972 Chevelle / Malibu / El Camino
1967-1974 Chevy II / Nova
1967-1972 Cutlass, 1970-1972 Monte Carlo
1973-1974 Omega, 1971-1974 Ventura

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!

-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
1	A1028A	10	1/2"-20 x 2.5" Wheel stud
2	A1028B	10	1/2" I.D. Wheel stud washer
3	B4112A	2	5/8"-18 x 1.50" Flat head caliper bracket bolt
4	B1301E	4	3/8"-24 Press nut (Installed in B4110B)
5	B1320H	2	Inner hub bearing cup (Timken LM67010 installed in B1324A)
6	B1320J	2	Inner hub bearing cone (Timken LM67048)
7	B1324A	2	Front hub "F" 4.75" B.C.
8	B1324D	2	Outer hub bearing cup (Timken LM11910 installed in B1324A)
9	B1380C	10	1/2" ID x .025 Shim
10	B1320N	2	Hub seal (National # 40494S)
11	B1324E	2	Outer hub bearing cone (Timken LM11949)
12	B1301H	16	3/8" I.D. x 0.025" Thick caliper shim
13	B1301J	4	3/8" I.D. x 1/16" Thick caliper washer
14	B5000Z	4	3/8"-24 x 1.187" Caliper bolt
15	B5010	4	DRM-35 metallic 4-piston brake pad
16	B1900	2	Billet Caliper
17	P2316	2	1/8" NPT x -3AN Fitting
18	B2798AS	2	Evolution S Rotor
19	B2794B	2	2-Piece rotor adapter
20	B2794D	2	Spirolock
21a	B4110BL	1	Left hand caliper mount bracket
21b	B4110BR	1	Right hand caliper mount bracket
22	B4154E	2	Aluminum hub cap
23	S3520F	2	#222 Buna O-ring (Installed on B4154E)
24	B1380B	10	5/8" ID x .025 Shim
25	B4112B	2	5/8"ID x 0.450" tall caliper mount spacer

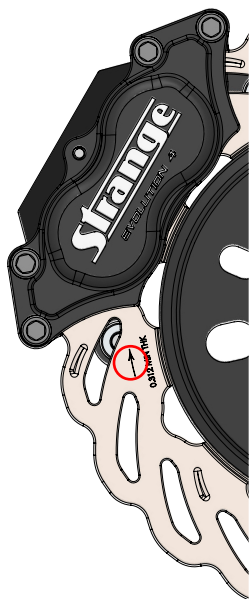
WARNING - RACING IS HAZARDOUS - STRANGE BRAKES ARE FOR LEGAL DRAG RACING ONLY

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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, stock drum, hub, brake line, and backing plate from spindle.
3. Clean and inspect spindle for damage (spun wheel bearings, stripped threads, etc.) and repair or replace as needed. Inspect upper and lower ball joints for excessive play and replace as needed.
4. Install 1/2" Dia. wheel studs (1) in front hub (7) using 1/2" I.D. wheel stud washer (2) and a small amount of BLUE Loc-tite®. Torque all studs to 65 ft-lbs. Note: Consult your wheel and/or lug nut manufacturer for proper lug nut torque.
5. Pack the inboard (6) and outboard bearing cone (11) 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 (5, 8) and slide inboard bearing cone (6) into hub (7).
7. Press the hub seal (10) into the inboard side of the hub (7) flush to the outer face of the hub.
8. Slide the hub assembly onto the spindle then slide the outer bearing cone (11) into the hub (7).
9. Install the stock spindle washer and 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 (22), and remove the wheel and tire.
14. Install the caliper mounting bracket (21a, 21b) with the heads of the press nuts (4) facing towards the outboard side of the vehicle. Use one 5/8" flat head bolt (3) and caliper spacer (25), finger tight, to hold the caliper bracket in place.
15. Use the 1/2" shims (9) on the bottom bolt to equalize the mounting surfaces.
16. Slide the rotor (18, 19, 20) over the wheel studs flush to the face of the hub (7).

Note: Slotted rotors mount with the arrow pointing in the direction of normal rotation (See Figure #1).

17. Measure the distance between the inboard face of the rotor and the outboard face of the caliper mounting bracket. Add or remove 1/2" and 5/8" shims as needed to obtain a distance of approximately 5/16" (+/- 1/32"). Note: Because all spindles vary slightly, you may have shims left over. Also, you may not need the same amount of shims on both sides of the vehicle.

18. Torque the 5/8" flat head bolt (3) to 50 ft/lbs. Torque the lower bolt to 40 ft/lbs.

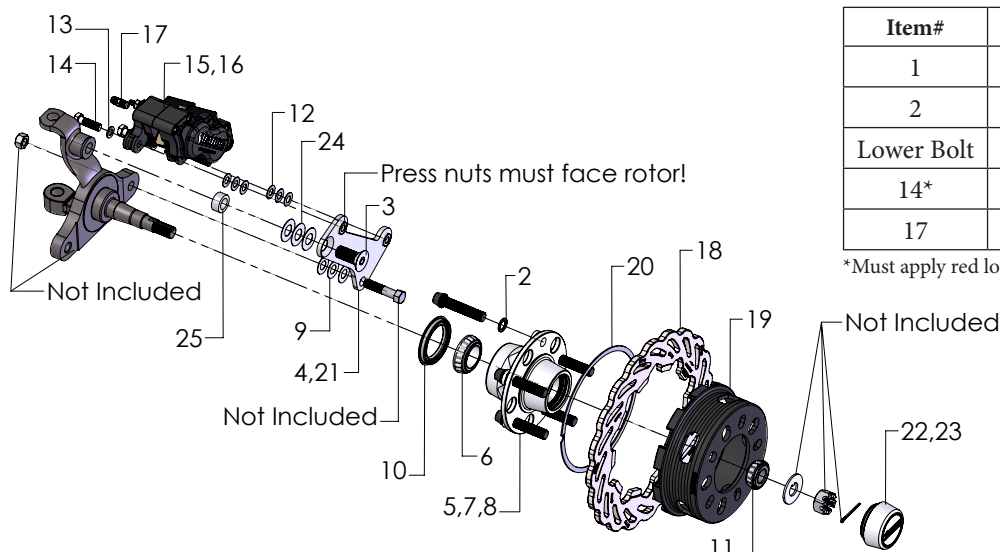
- Please read B1850 instructions for complete caliper instructions.

19. Attach caliper (16) using 3/8"-24 caliper bolts (14) with red loctite and 3/8" I.D. flat washers (13). Use 3/8" I.D. caliper shims (12) to center the caliper over the rotor, making sure pads contact the rotor evenly. Use any remaining shims under the head of the 3/8" Dia. Caliper bolt to prevent the bolt from contacting the rotor. Torque the caliper mounting bolts (14) to 35 ft-lbs.
20. 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 .
21. 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.

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FIGURE # 2: Exploded B4112WCE Assembly View



Item#	Torque spec (ft-lbs)
1	65
2	50
Lower Bolt	40
14*	35
17	25

*Must apply red loctite