

Page 1 of 2

EVOLUTION

Dec-11, 2024

EVOLUTION 2-PISTON DDM FRONT BALL BEARING BRAKE KIT INSTRUCTIONS

KIT #B4710WCE - Early GM
brake kit for drum spindles

APPLICATIONS

1973-1974 Apollo, 1967-1969 Camaro/Firebird 1967-1972 Chevelle / Malibu / El Camino 1966-1974 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

Evolution 2 Piston Kit

- Low friction Ball Bearings, Steel and Ceramic available
- Weight: 19.65 lbs
- Minimum Rotor thickness: 0.260"Minimum Pad Thickness: 0.200"
- Low friction seal and stainless steel seal rings

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							
ITEM#	PART#	QTY	DESCRIPTION	ITEM#	PART#	QTY	DESCRIPTION
1	B1500H	2	Evolution hub cap	14	B1380B	10	5/8 ID x .025 Shim
2	S3520F	2	-222 Buna O-ring	15	B1380C	10	1/2 ID x .025 Shim
3	B1500F	2	0.751" ID outboard bearing sleeve	16a	B4710BR	1	Caliper Mount -RH
				16b	B4710BL	1	Caliper Mount -LH
5	B1524A	2	Evolution Front Hub	17	B1301E	4	3/8-24 Plug nut
6	A1028A	10	1/2-20 X 2.5" Taper head SHCS	18	B1301H	16	3/8 ID x .025 Shim
7	A1028B	10	1/2" Stripper washer	19	B1835	2	2-Piston Evolution caliper
8	B2788AS	2	11" Evolution rotor	20	B2510	4	DTC-30 semi metallic brake pad
9	B2794D	2	Spirolok				
11	B1500I	2	Seal	21	P2316	2	-1/8 NPT x #3AN Brake Line Fitting
12	B1500E	2	1.251" ID inboard bearing sleeve				
				22	B1301J	4	Washer -3/8 ID 1/16 thick
13	B4110A	2	5/8-18 x 1.25" FHSCS	23	S3440D	4	3/8-24 X 1 HHCS
Ball Bearing Kits							

B1500SKIT Steel Ball Bearing kit content B1500CKIT Ceramic Ball Bearing kit content ITEM# PART# QTY **DESCRIPTION** ITEM# **DESCRIPTION** PART# QTY Outboard Steel Outboard Ceramic B1500B B1500BC 2 4b 2 4a Ball bearing Ball bearing Inboard Steel Inboard Ceramic B1500A 10b B1500AC 10a 2 2 Ball bearing Ball bearing

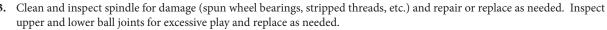
Page-2-of-2------Dec-11,-2024-

Installation instructions

Figure #1

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





4. Install 1/2" Dia. wheel studs (6) in front hub (5) using 1/2" I.D. wheel stud washer (7) 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.

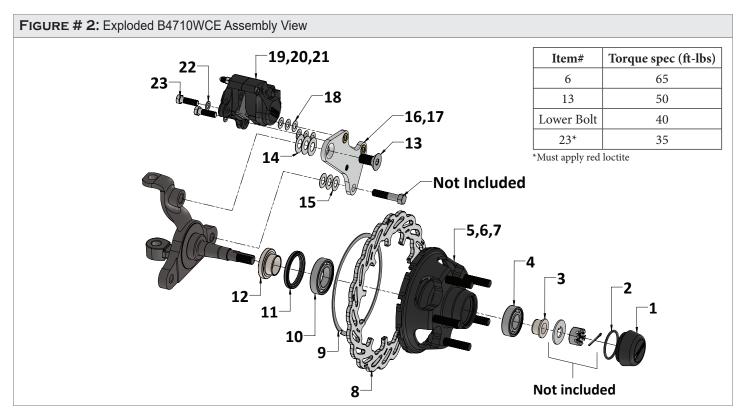
- 5. Install the caliper mounting bracket (16) with the heads of the press nuts (17) facing towards the outboard side of the vehicle.
- **6.** Use one 5/8" flat head bolt (13), finger tight, to hold the caliper bracket in place.
- 7. Use the 1/2" shims (15) on the bottom bolt to equalize the mounting surfaces.
- 3. Slide the hub assembly onto the spindle and install the stock spindle washer and nut.

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

- . 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 1/4" (+/- 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.
- 10. Tighten the spindle nut until the hub has no end play and spins freely.
- 11. Install the cotter pin, aluminum hub cap (1), and remove the wheel and tire.
- 12. Torque the 5/8" flat head bolt (13) to 50 ft/lbs. Torque the lower bolt to 40 ft/lbs.
 - Please read **B1835** instructions for complete caliper instructions.
- 13. Attach caliper (19) using 3/8"-24 caliper bolts (23) with <u>red loctite</u> and 3/8" I.D. flat washers (13). Use 3/8" I.D. caliper shims (18) to center the caliper over the rotor, making sure pads contact the rotor evenly. Torque the caliper mounting bolts (23) to 35 ft-lbs.
- 14. 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.

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.



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