

## DUAL 4-PISTON REAR BRAKE KIT INSTRUCTIONS

**KIT #**  
B1710WCDE  
B1710WCDEM

**APPLICATIONS**  
Symmetrical 3.150" housing end  
with Brake offset = 2.832"

### 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!
- Brake fittings do not come pre-installed, it will need a layer of Teflon sealer applied to the thread (Figure#1 for torque specs)
- 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.

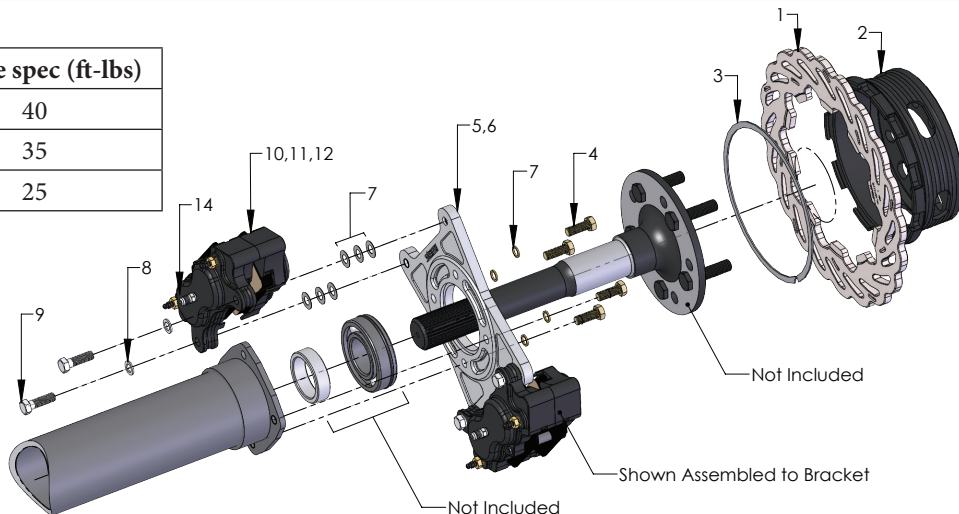
### KIT CONTENTS

ITEM#	PART#	QTY	DESCRIPTION
1	B2798AS	2	Evolution S Rotor
2	B2794B	2	2-Piece rotor adapter
3	B2794D	2	Spirolok
4	S3440D	8	3/8"-24 x 1 HHCS
5	S3402N	8	3/8" AN Washer
6	B1301E	4	3/8"-24 Press nut (Installed in B1710CC)
7	B1710CC	2	Dual caliper mount for symmetrical housing ends
8	B1301H	32	0.025" Thick caliper shim
9	B1301J	8	1/16" Thick caliper washer
10	B5000Y	8	3/8"-24 x 1-1/8" Caliper bolt
11a	B5010	4	DTC-30 Semi metallic 4-piston brake pad (B1710WCDE)
11b	B5020	4	DRM-35 metallic 4-piston brake pad (B1710WCDEM)
11c	B5022	4	DRM-40 metallic 4-piston brake pad (B1710WCDEM)
12	B1900	2	Billet Caliper
13	P2316	4	1/8" NPT x -3AN Fitting (Installed in B1900)

FIGURE # 1: Exploded B1710WCDE Assembly View

Item#	Torque spec (ft-lbs)
3	40
9*	35
14	25

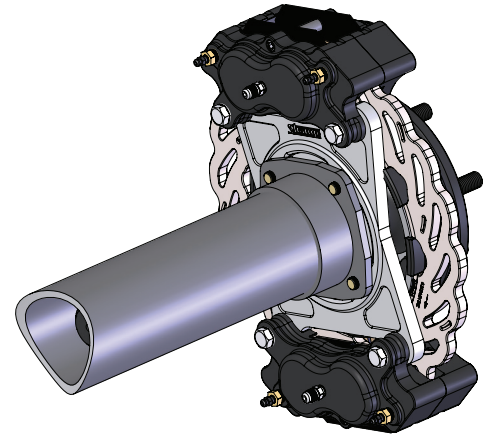
\*Must apply red loctite



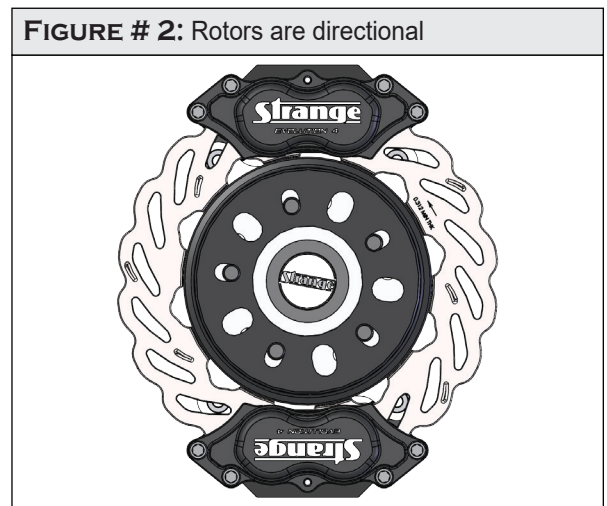
### Installation instructions

1. Raise and support rear of vehicle on a level surface using suitable equipment.
2. Remove wheel, axle, and current brakes.
3. Remove bearing, wedding ring from the axle, and caliper mount from the housing end.
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 (1,2,3) 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.
6. Inspect the housing end for straightness and repair as necessary.
7. Slide the dual caliper mounting bracket (7) onto the axle with press nuts (6) facing outboard.
8. 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.
9. Press the wedding ring onto the axle until it seats flush against the bearing.
10. Install the axle into the housing until the bearing bottoms out in the housing end.
11. Install the caliper mounting bracket (7) using the 3/8"-24 HHCS bolt (3) and 3/8" washer (9). Torque HHCS bolts (4) to 40 ft-lbs.
12. Slide the rotor (1,2,3) 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 B1950 instructions for complete caliper instructions if using soft pads.  
- Please read B1955 instructions for complete caliper instructions if using metallic pads.
13. Attach caliper (12) with the arrow facing in the direction of normal rotor rotation using 3/8"-24 caliper bolts (10) with red loctite and 1/16" thick flat washers (9). Use 0.025" thick caliper shims (8) to center the caliper over the rotor, making sure pads contact the rotor evenly. The caliper bolt (10) should be fully engaged into the press nut (6). 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 (10) to 35 ft-lbs.
14. 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 brake fluid ONLY.
15. 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:** Rotors are directional



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

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