



MILKFAB ENGINEERING

Phone: 1-865-456-9466

Email: amielke.milkfab@gmail.com

S30z Rear Disk Brake Conversion Kit Installation Manual



Index:

1. Disclaimer
2. Parts List
3. Installation Guide

A vehicle modified with MilkFab Engineering products is intended for off road use only. It is the purchaser's responsibility to check and comply with all local, state, and federal laws prior to operating vehicle. Installation and use of performance products may also affect and void warranty. MilkFab Engineering shall not be liable for direct, indirect, incidental, or consequential damage to persons or property that might be claimed as a result from installation, improper installation, and failure of part including claims for delay, loss of profit, or labor.

Disclaimer

Parts List

Parts Included

Quantity	Description
2	MilkFab Rear Caliper Brackets
2	MilkFab Caliper Ebrake Brackets
2	MilkFab Steel Braided Rear Brake Hoses
2	Brake Line Banjo Bolts and Crush Washers
1	MilkFab S30z Rear Disk Brake Kit Installation Manual
4	M12 x1.75mm x 30mm Grade 8.8 Hex Cap Bolts
6	M10 x1.25mm x 25mm Grade 8.8 Hex Cap Bolts
4	12.7mm ID Split Lock Washers
6	10.7mm ID Split Lock Washers
2	Modified Z31 300ZX Rear Brake Rotor (Optional)
1	MilkFab Z31 300ZX Rear Rotor 4x114.3-Lug Drill Template

Additional Parts Needed

Quantity	Description
1	Pair of 2005-2014 Mustang Rear Brake Calipers
1	Set of Rear Brake Pads and Hardware for 2005-2014 Mustang

Installation Guide

WARNING! Extreme caution should be taken when performing ANY maintenance or performance upgrades to your vehicle. Please observe and abide by any Warning or Caution labels placed on the various components and tools used when servicing your vehicle. If you have any questions regarding the installation or the various components included with the S30z Rear Disk Conversion Kit, consult with a Professional Mechanic or contact MilkFab Engineering for more information.

BRAKE FLUIDWARNING! Please be aware that Brake Fluid will damage any painted surfaces if left for an extended period of time. Use extreme caution when handling parts or painted body panels after coming into contact with Brake Fluid. Clean up spills or leaks as quickly as possible to prevent damage to the finish of the various suspension and body components.

Disassembly:

*****BEFORE YOU BEGIN!*****

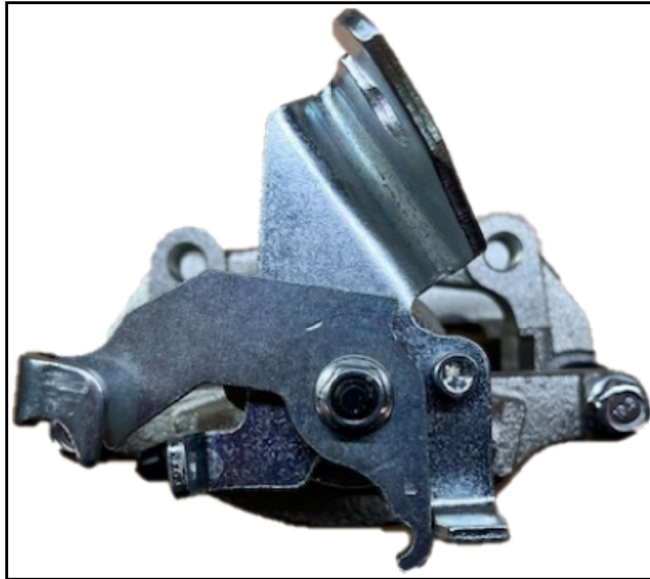
Remove all contents from the MilkFab S30z Rear Disk Brake Conversion Kit and verify that ALL necessary hardware is present.

1. Properly raise and support your s30 using jack stands and the proper jacking points on your vehicle's chassis. (refer to vehicle's owner's manual)
2. Raise the vehicle's hood.
3. Remove rear wheels.
4. With the rear wheels removed, begin the disassembly of the stock s30 brake system:
 - a. Remove the stock brake drums from the hub assembly.

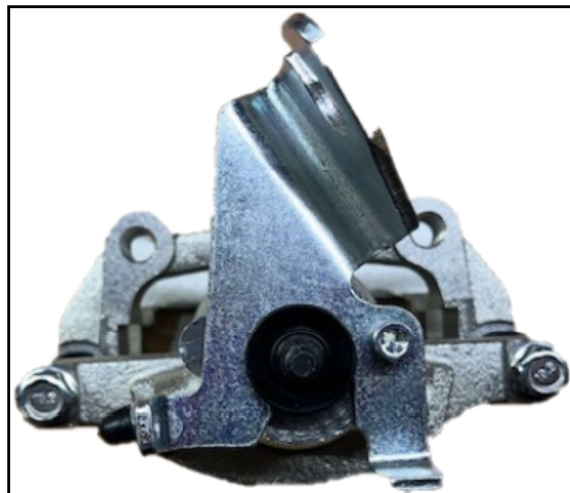
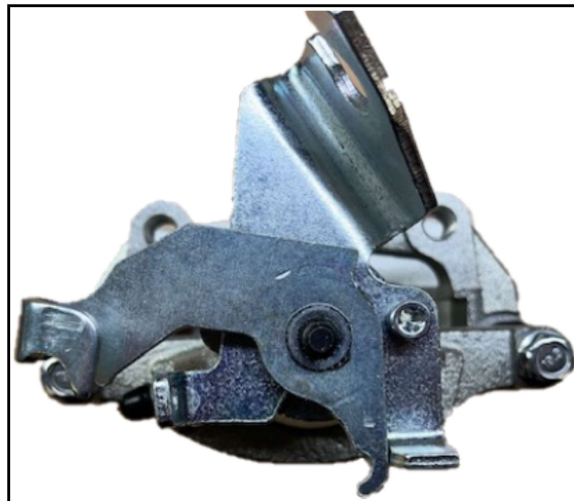
- b. Remove the Ebrake cable retention clip, cotter key, and clevis pin. **Save These Parts as They Will be Reused.**
 - c. Remove all brake shoes, springs, and wheel cylinder.
 - d. Remove brake hose and hard brake line going to wheel cylinder.
 - e. Remove brake line bracket that is attached to the hub.
 - f. Remove 4 bolts holding backing plate.
 - g. Remove backing plate by removing stub axle OR cutting it off with sawzall or other desired tool.
5. Step back and think “What have I done”.

Installation:

- 7. Locate the two MilkFab Rear Caliper Brackets, the 6 supplied M10 x 25mm Bolts and the 6 Split Lock Washers.
- 8. Position the rear caliper brackets onto the hub with the caliper mounting ears facing the front of the vehicle.
- 9. Install the lock washers onto the M10 x 25mm bolts, apply medium strength thread locking compound to the bolt threads, and torque the caliper bracket mounting bolts to 39 ft-lb.
- 10. Replace the stock Mustang Ebrake cable bracket with the supplied MilkFab Ebrake bracket.
 - a) Compress the Ebrake return spring and remove it from the caliper. **Be Extremely Careful Removing, Springs Contain Large Amounts of Stored Energy While Compressed.**

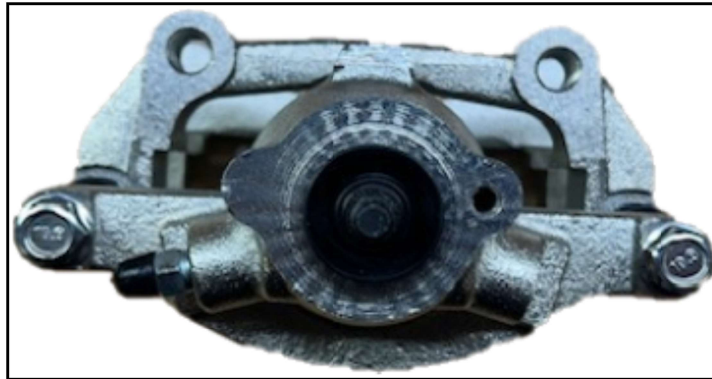


- b) Remove nut from the center of the Ebrake actuation arm and remove arm. (Take note of position of the arm in relation to the Ebrake cable mounting bracket.)

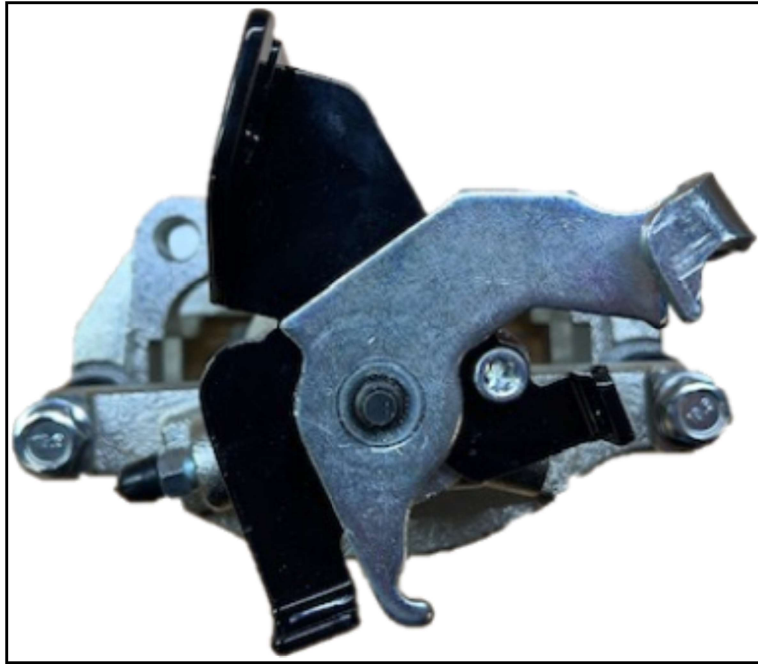


- c) Remove Ebrake cable bracket mounting bolt and bracket.

Place the supplied MilkFab Ebrake cable bracket on the caliper with the Ebrake cable opening facing towards the bleeder nipple opposite to the stock bracket. Bolt the MilkFab Ebrake cable bracket on using the hardware removed in step 10-C.



- d) Swap the Ebrake actuation arm from the left side caliper to the right and vice-versa onto the center post with the “tail” of the arm resting against the stop of the Ebracket cable bracket like the original (Be sure the actuation arm is also seated in the splines on the post.) . Re-install the center nut reverse of step 10-B.



- e) Re-install Ebrake return spring. The springs will also be swapped side-to-side like the actuation arm. **Be Extremely Careful Removing, Springs Contain Large Amounts of Stored Energy While Compressed.**



***With the use of the MilkFab V2.0 Ebrake bracket the left caliper is mounted on the left side of the vehicle and the right on the right side. ***

- 11.** Attach the supplied MilkFab Steel Braided Rear Brake Hose to the stock Datsun body mount and tighten the brake fitting.
- 12.** Attach the Steel Braided Rear Brake Hose to the caliper using the supplied crush washers and banjo bolt, making sure that the brake hose will not make contact with any other components throughout the full suspension travel when mounted.
- 13.** Install the Ebrake cable into the opening on the MilkFab Ebrake Cable Bracket attached to the caliper. Reinstall the retention clip, cotter key, and clevis pin that were removed during step 4-B.
- 14.** Be sure the brake piston is fully compressed and install the brake pads and pad hardware.
- 15.** Install the brake rotor onto the hub.
- 16.** Install the lock washers onto the M12 x 30mm bolts, apply medium strength thread locking compound to the bolt threads, and torque the caliper mounting bolts to 60 ft-lb.
- 17.** Ensure Ebrake Cable routing is free of contacting moving parts throughout the full suspension travel.
- 18.** Bleed the brake system.
- 19.** Repeat steps 8-18 for both sides of the vehicle.
- 20.** Re-install rear wheels.
- 21.** Perform a final test drive of the vehicle.

Disclaimer: This brake kit fits under most 15" diameter wheels. However, due to variation in wheel designs there may be brake caliper interference with the spoke back face and barrel of some wheels. The use of wheel spacers may be required to fit this kit on cars with these wheel designs.