

**Disclaimer:**

These parts are intended for race use only. The parts are not certified for use on public roads, and as such may not be legal for highway use. Wilhelm Raceworks LLC is not liable for any damage directly or indirectly related to the use or mis-use of these components.

**Parts List:****Rotor Hats:**

2x .41" offset front rotor hats  
2x .86" offset rear rotor hats.  
32x drilled head 5/16-18 x 3/4" bolts  
32x 5/16 washers

**Main Caliper Brackets:**

2x front caliper brackets  
2x rear caliper brackets  
8x M12x1.25 25mm bolts  
8x M12 lock washers  
8x 7/16-20 x 1.5" bolts  
8x 7/16 washers  
1x front brake line kit  
1x rear brake line kit

**Parking Caliper Brackets:**

2x parking caliper brackets  
2x parking brake cable  
4x M6x1.0 20mm socket head cap screws  
4x M6 washers  
4x 3/8-24 5/8" bolts  
4x 3/8 washers  
4x zip ties  
2x snap in plastic grommets

**Additional parts required:**

2x Wilwood FSL calipers for front  
2x Wilwood FSL calipers for rear  
2x Wilwood MC4 mechanical calipers  
2x 12.19" x 1.25" rotors with 8x7.00" bolt pattern  
2x 12.19" x .81 rotors with 8x7.00" bolt pattern  
2x Brake pad set for Wilwood FSL calipers  
Safety wire for rotor hats  
Medium strength (blue) loctite.

Recommended part numbers for these items can be found at [www.wilhelmraceworks.com](http://www.wilhelmraceworks.com).

## Installation instructions:

A Toyota Factory Service Manual may be helpful to have on hand to reference during the installation process. **I recommend a few drops of medium strength (blue) loctite on ALL caliper / caliper bracket mounting bolts.**

### Rotor Hats:

1. Install rotors to rotor hats using the drilled head bolts and washers. Thicker hats are for the rear, thinner hats for the front. **Torque to 15ft-lb.**
2. Safety wire the rotor bolts! Wilwood's safety wire instructions can be found at [www.wilwood.com/PDF/DataSheets/ds386.pdf](http://www.wilwood.com/PDF/DataSheets/ds386.pdf) Do not skip this step, you *really* don't want these coming loose!



### Calipers / Brackets:

1. Remove existing brake calipers, rotors, and brackets.
2. Install caliper inlet fitting to caliper using teflon tape or thread sealant.
3. Install caliper bracket as shown below. New 12mm bolts and lock washers are provided, or the stock bolts can be re-used if they are in good condition. Front brackets have full-round spacer bosses, rears bracket bosses are D-shaped to clear mounting ears on the knuckle. Spacer bosses should point in toward the car. **Torque to 50ft-lb.**
4. Install parking caliper bracket using M6 bolts/washers. Offset should point in toward the car as shown below. **Torque to 12ft-lb (144in-lb).**



5. Install rotors and temporarily hold in place with a couple of lug nuts.
6. Install calipers using 7/16 bolts and flat washers. **Torque to 50ft-lb.**

7. Install parking caliper using 3/8 bolts and washers. **Torque to 25ft-lb.**
8. Remove stock parking brake cables. Snap plastic grommets into cross member as shown below. Install new cables using, following the stock routing forward of the engine bay. Secure to the strut rod with supplied zip ties. Brake cable routes under the axle and up into the parking caliper.



#### **Brake Lines:**

1. Install brackets to rear brake lines using included clips as shown below.



2. Install brake lines. Secure using supplied E-clips and re-used stock brake line clips.
3. Bleed brakes and inspect for leaks.