

# Installation instructions

## StopTech Big Brake Kit Mazda MX-5 NC 309mm

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<b>Editer:</b>	Nico Hafner	<b>Vehicle:</b>	Mazda MX-5 NC

### Scope of delivery:

- 2x ST43 4-piston caliper
- 2x Brake disc 309x32mm
- 1x Brake pad set
- 1 set Aluminium brackets
- 1 set braided brake lines for front axle
- 4x caliper bracket bolt
- 4x washer for bracket bolt
- 1x thread locker



### Warning:

Please read this instruction before installation and get in touch with the work on the car! Ideally, have the installation done by a professional workshop. Tighten all screws with the torque recommend by the manufacturer. The assembling company is liable for installation mistakes. In case of manufacturing defects, the corresponding components will be replaced without any costs within the warranty period.

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### Preparation:

- Park the vehicle, switch off the engine and let the engine cool down
- Lift the car, so all wheels are in the air
- Remove all 4 wheels

### Dismantling of the OEM brake system:

- Disconnect the OEM brake line from the hard line fitting
  - ➔ *Warning! From this moment brake fluid will leak! Brake fluid is dangerous for the environment, your skin and most materials! Wear gloves and goggles while handling with brake fluid. Attach the rubber cap from the OEM bleeding screw to the hard line fitting directly after loosening it to avoid bleeding of brake fluid to the environment. Wipe the brake fluid off your skin or metal parts directly after contact.*
- Remove brake hose from bracket
- Dismantle the screws of the caliper mounting
- Remove caliper from the vehicle and let it bleed into a safe pan
- Remove the brake disc (*In case that you can't easily take it off the wheel hub*)



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**Preparation for the Big Brake Kit:**

**Modify of dust shield:**

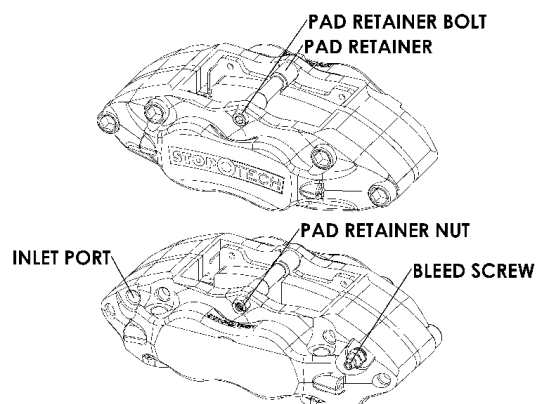
Due to the bigger disc diameter, there are modifications necessary on the dust shield. Simply cut off the edges of the shield that are in the way of your new brake disc. Check the free space with the new brake disc to verify the disc does not scrap on the dust shield.

**Cleaning the wheel hub:**

To get a clean and rust-free surface for your new brake disc you might need to clean your wheel hub. For this you can use a wire brush or something similar.

**Mounting the new Big Brake Kit:**

- Mount the caliper adapter bracket to the OEM holes, Torque 78-102Nm
- Set your new brake disc on the wheel hub and secure it with one lug nut, watch out for a flat and clean surface between disc and wheel hub. Also watch out for the correct rotation of the disc.
- Turn your new brake disc on the hub to verify turning without collision of any parts surrounding.
- Identify the correct caliper for the side you're working on (bleeding screw has to be on the upper side while mounted).
- Remove the pad retainer bolt, take note of the installation direction.



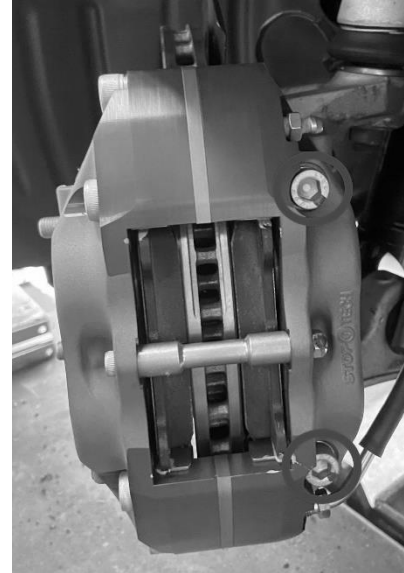
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- Prepare caliper screws with washers and thread locker
- Mount the caliper with the bleeding on the upper side, Torque 60Nm



- Place the brake pads in the caliper
- Place the pad retainer in the caliper and stick the screw through, Torque 13Nm



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- Install the caliper side of the brake line
- Remove rubber cap from hard line fitting
- Install the brake line to the hard line fitting, watch out not to twist the new brake line
- Tighten the caliper side
- Tighten the hard line fitting



- Move your steering lock to lock to verify the brake line does not bind or scrub at any surrounding part.



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**Final work on the vehicle:**

- Bleed your full brake system 2 times
- After tightening all bleeding screws press the brake pedal at least five times
- Watch out of any leakage of the brake system
- Gently try to fit your wheel and check if the brake system has any contact to the wheels. Also turn the wheels to be able to hear even the smallest contact
- In case you have no contact to the new brakes, you can tighten your wheels
- Press brake pedal again five times
- Carefully test drive the car slowly and in safe environment
- Final check for any leakages

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