

## Mazda MX-5 Butterfly Brace

Congratulations for choosing our high-quality chassis butterfly brace bolt-on upgrade. We feel privileged to be able to provide products of our efforts to the enthusiast community. Our rails deliver superior performance and will be of great benefit to your MX-5. By your purchase you also support future development of new, custom made performance parts to make our cars even more fun.

We recommend to quickly read through the whole guide before starting the job.

### Contents:

1 x Driver side wing  
1 x Passenger side wing  
1 x Middle brace

### Fixings pack:

4 x Bolt M8x20  
4 x Locking nut M8  
8 x Large washer M8

There is also 1 spare from each item.



**It requires two people (or at least two jack stands) to install the brace.**

### Installation equipment needed:

Spanner set  
Drill Ø 8.5 mm  
Drilling machine or screwdriver  
Body filler or silicone

### Before installation:

Check if your frame rails are mounted with nuts on the bottom (underside of the car). If the bolts are pointing up, you'll have to remove the interior as when you installed the frame rails. If not, the installation is quite easy, but you'll need a hoist/jack/pit to have sufficient space to work on your car.

## Installation procedure:

- 1) Use provided bolts, nuts and washers to assemble the butterfly brace (bolt – washer – brace – washer – nut) and leave it somewhat loose, so the middle section can move freely. In next part it's best to have another person to help you mount the brace to the frame rails.
- 2) Your existing frame rails are mounted to the car via bolts going through the floor. The first step is to remove the nuts holding the rails on the inner (exhaust) side while leaving the outer (door) side to hold the rails.
- 3) Put the new brace over your frame rails and move it to the desired position (check for exhaust clearance). Marking where the holes for bolts should go can be tricky unless you remove the interior and the bolts holding the frame rails' inner side. You can do it for example by sliding the brace to the side, so the bolts appear, then mark it on the side of the butterfly brace mount and measure the distance from the outline.
- 4) After the brace sits in the desired place, drill holes on one end (front or back) on both left and right brace wings. Then put the brace over the frame rail bolts to fix the brace in position on that end.
- 5) Drill second set of holes on the other end and fix the brace in place with a second set of nuts and bolts. Use marker to mark the ideal position of middle section.
- 6) With brace held by corner bolts well in its place drill all other remaining holes on both sides of the brace. Now you can either remove the brace and tighten up the four brace nuts and bolts, so they hold the middle brace where you made the marks; or you can tension it a bit by tightening the nuts while it's on the car.

That's it! We hope you'll enjoy your stiffer car as much as we do ours.

Should you have any questions or you want to share your feedback with us, please let us know on [hello@skidnation.com](mailto:hello@skidnation.com) or on your favourite MX-5 forum. Now it's time to put this guide away and go for a drive 😊