HEUSINKVELD®

Elastomer Kit

Sim Pedals Sprint

Introduction

Thank you for acquiring the Elastomer Kit for Sim Pedals Sprint. This kit allows you to upgrade Sprint brake pedals with early specification brake rubbers to our latest injection molded thermoset brake elastomers.

The key advantages of using these new elastomers compared to the early spec rubbers are as follows:

- A much more progressive brake feel. When applying force to the brake initially there will be more travel. Then the brake pedal feel gradually but very clearly stiffens.
- Firmer bump and rebound characteristics. Especially on rebound (eg. when you decrease the force you put on the brake) a smaller decrease of brake force is required for the pedal to start moving back to its starting position.
- Further improved durability. Extensive testing has shown that these new elastomers have a near zero failure rate and show no performance degradation even after 1 million cycles.

Contents

The Elastomer Kit for Sim Pedals Sprint contains the following components:

- 1x 19mm hard elastomer.
- 1x 19mm, 1x 28mm, 1x 37mm soft elastomer.

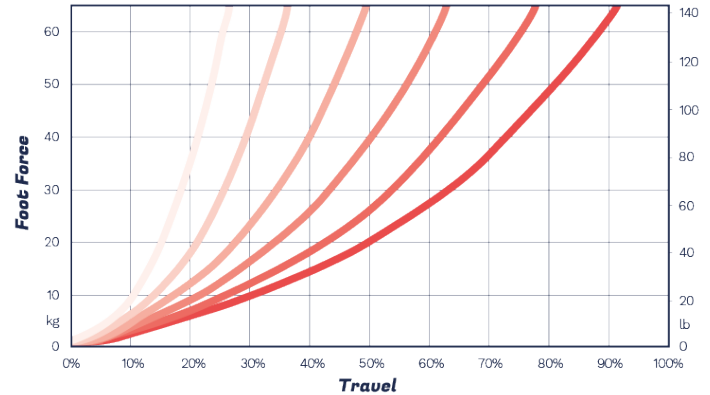The length and the hardness of the elastomer (soft/hard) are printed on the side of the elastomer.

All other components of the brake elastomers stack (such as the black discs and spacers) should be re-used from your original brake.

Force curves:

With this kit you can set a total of 6 force curves.

All possible curves can be seen in the graph.

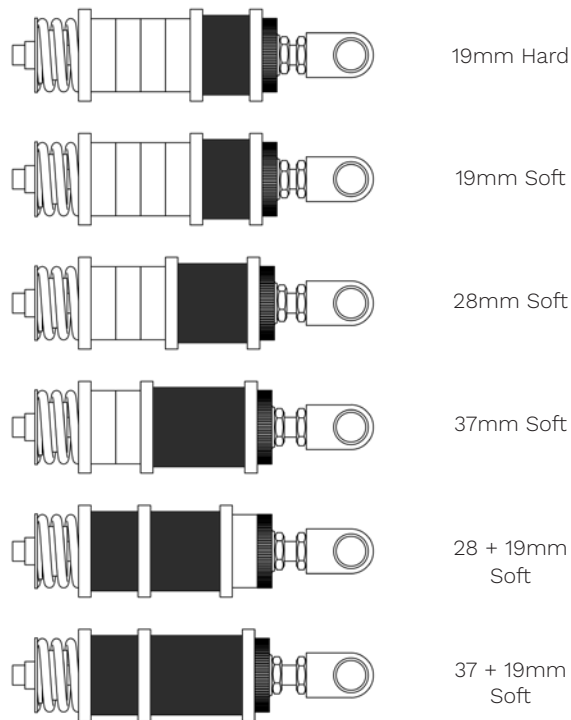The hardest setting is on the left, the softest on the right.

Installation instructions

The brake rubbers/elastomers are changed as follows:

1. Remove all preload on the rubber stack. First you need to turn the lock nut towards the pedal arm, using the wrench supplied with your pedal set. Then you turn the black knurled adjustment nut towards the pedal arm.

2. Pop the rubber stack out of position by pressing with two thumbs on the rear of the pedal backplate.

3. Remove rubbers and add elastomers, discs and spacers as desired. Look carefully at the elastomer stack schematics to correctly assemble an elastomer stack. There must always be a large disc before and after every individual elastomer.

4. Pop the elastomer stack back in position.

5. Re-set the desired preload by turning the knurled nut. Make sure there is enough tension on the elastomer stack so it won't pop out. Do not turn the preload adjustment nut beyond the thread of the rod. If this happens, consider adding an extra spacer.

6. Lock the knurled nut by tightening the lock nut firmly against it.

7. Recalibrate the pedals in SmartControl.

The schematic shows all possible stack configurations. The hardest setting is on top, the softest on the bottom.

19mm Hard

19mm Soft

28mm Soft

37mm Soft

28 + 19mm Soft

37 + 19mm Soft

Check the tutorial video on our YouTube channel.

Remco will guide you through the process!

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Support:

If you have any questions, please let us know at support@heusinkveld.com.