

CorkSport Mazdaspeed 3 Rear Adjustable End Links

2007+ Mazdaspeed 3 and 2004+ Mazda3



Thank you for purchasing the CorkSport Mazda3/Mazdaspeed 3 Rear Adjustable End Links! By adding the end links to your rear sway bar, you will be able to eliminate binding and remove the preload on your sway bar. Made to fit OEM and aftermarket sway bars, the CorkSport End Links have +/-10mm of adjustability, and have 31mm ball joints for low friction and added durability. We hope you enjoy your new CorkSport Mazda Performance part and, as always, we are interested in your feedback. Please submit a review of the product today at <http://www.corksport.com/corksport-mazda-3-mazdaspeed-3-rear-adjustable-swaybar-end-links.html>

Pre-Installation Notes:



Make sure your vehicle is completely cooled down prior to starting installation. If you are going to work on your car within an hour or two of having driven it, use a fan to cool off the car.



These instructions were written for reference only and the use of a factory service manual is recommended. Please read these instructions thoroughly prior to starting installation



How our instructions work: To best cover all of our customers experience levels, we have included an overview checklist for the more technically advanced users along with step-by-step instructions for customers that require additional detail.



These installation instructions were written using a 2010 Mazdaspeed 3. Other year Mazda3 and Mazdaspeed3 models will be similar.

Materials and Time:



General Info.

Part #: Axl-3-317
Time Est: 0.5 hours
Wrench Rating: 1/5



Tooling List

14mm Wrench
17mm Wrench
19mm Wrench (Mazdaspeed3 Only)
3mm Allen Wrench



Parts List

Two (2) CorkSport Rear Adjustable Endlinks


Need Help With Your Installation?

Call (360) 260-CORK



Checklist

This is an overview of each step in the build. You can use this as a reference and a checklist as you button up the work on your car



1. Removing the Factory Rear End Links

- a) **Use a floor jack and jackstands to gain access to the underside of the vehicle.** Support the car on jack stands or car lift.
 -  Always refer to the floor jack and jack stand manufacturers instructions as well as the factory owners manual for your vehicle to determine jacking points and support points. Alternately, use an automotive lift to gain access to the underside of the vehicle. Redundant support mechanisms are recommended.
- b) **Start by locating the old factory rear end links from underneath the car.** Figure 1a shows the rear end links from underneath the rear of the car (shown with CorkSport Rear Swaybar).
- c) **Locate the upper and lower nut that attach the rear end links to the swaybar arm and remove with a 17mm end wrench and 3mm Allen wrench in the top of the stud.** The 3mm Allen wrench will keep the endlink from spinning as you loosen it. Figure 1a shows the lower nut attached to the sway arm seen from under the car located to the inside of either the right or left rear spring. Figure 1b show the upper nut seen from underneath the rear of the car.
- c) **Remove OEM rear end links from vehicle .**

2. Install the CorkSport Adjustable Rear End Links

- a) **Insert the lower studs of the adjustable rear end links onto the sway arms one, two, or three hole position and tighten down the 17mm nut to (33-44ft.lbs) for Mazda3 and 19mm nut to (60-77ft.lbs) for Mazdaspeed3** (Figure 2a shows this from underneath the car).
 -  On the CorkSport Rear swaybars with three adjustment holes, only use holes one and two. These are the two furthest holes from the bar. Using the third hole can result in warping of the bar.
 -  Depending on the aftermarket swaybar you might not have the same number of the swaybar adjustment holes or if you have a factory bar there will be only one swaybar hole.
- b) **Raise the entire sway arm assembly making sure the top studs align with the top holes.**
- c) **Tighten the top nuts down onto the stud to 33-44ft.lbs** (completed assembly is shown in Figure 2b).

3. Adjusting the rear end links.

-  CorkSport adjustable rear end links can be adjusted to different lengths on either side of the vehicle to ensure stability, or allow for a particular handling set up of the vehicle for performance purposes.
- a) **Loosen the 17mm Jam nut. Then, to adjust the rear end links** you can use a 14mm end wrench to turn the shaft of the links clockwise or counter clockwise to raise or lower the sway arm up or down. Make sure there is clearance between the sway bar and other moving parts such as the rear control arm. Remember to tighten the 17mm Jam nut when you are finished.
 -  The endlinks can be adjusted much longer than the factory endlinks. This is normal and will not effect the function of the swaybar.

 **This completes the installation of your CorkSport Adjustable Rear Endlinks. Take a test drive and watch for rattles. If anything is heard check for loose nuts. Check out our [knowledgebase](#) for additional install information, tips, and helpful video's.**

Need Help With Your Installation?

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Detailed Instructions

These installation instructions were written using a 2010 Mazdaspeed 3. Other year Mazdaspeed3 models will be similar.

1. Removing the Factory Rear End links.

a) Use a floor jack and jackstands to gain access to the underside of the vehicle. Support the Car on Jackstands or car Lift. Always make sure vehicle is properly supported before crawling or standing under vehicle.

Always refer to the floor jack and jack stand manufacturers instructions as well as the factory owners manual for your vehicle to determine jacking points and support points. Alternately, use an automotive lift to gain access to the underside of the vehicle. Redundant support mechanisms are recommended.

b) Start by locating the old factory rear end links from underneath the car. Figure 1a shows the rear end links from underneath the rear of the car (shown with CorkSport Rear Swaybar).

c) Locate the upper and lower nut that attach the rear end links to the swaybar arm and remove with a 17mm end wrench and 3mm Allen wrench in the top of the stud. The 3mm Allen wrench will keep the endlink from spinning as you loosen it. Figure 1a shows the lower nut attached to the sway arm seen from under the car located to the inside of either the right or left rear spring. Figure 1b show the upper nut seen from underneath the rear of the car.

c) Remove OEM rear end links from vehicle . The endlink should now be free to remove.



Figure 1a



Figure 1b

2. Install the CorkSport Adjustable Rear End Links

a) Insert the lower studs of the adjustable rear end links onto the sway arms one or two hole position and tighten down the 17mm nut to (33-44ft.lbs) for Mazda3 and 19mm nut to (60-77ft.lbs) for Mazdaspeed3 (Figure 2a shows this from underneath the car).

On the CorkSport Rear swaybars with three adjustment holes, only use holes one and two. These are the two furthest holes from the bar. Using the third hole can result in warping of the bar.

Depending on the aftermarket swaybar you might not have the same number of the swaybar adjustment holes or if you have a factory bar there will be only one swaybar hole.

b) Raise the entire sway arm assembly making sure the top studs align with the top holes, both studs must align and push through the hole together before installing and tightening the nut onto the stud on the next step.

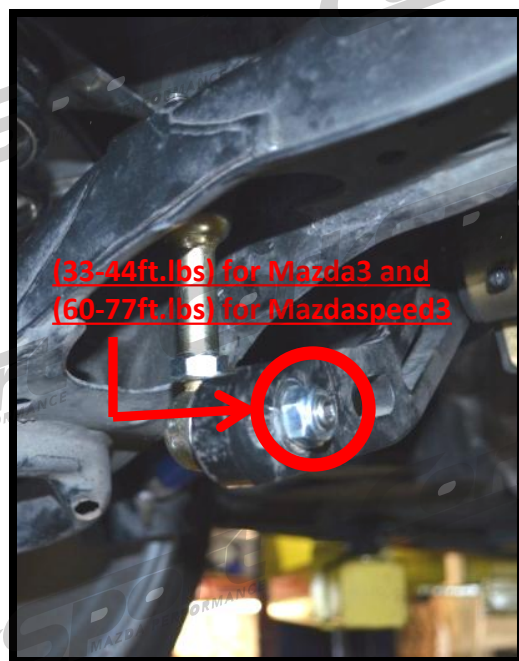


Figure 2a

Checklist

2. Install the CorkSport Adjustable Rear End Links Continued...

- c) Tighten the top nuts down onto the stud to 33-44 ft/lbs (completed assembly is shown in Figure 2b).

3. Adjusting the Rear End Links



CorkSport adjustable rear end links can be adjusted to different lengths on either side of the vehicle to ensure stability, or allow for a particular handling set up of the vehicle for performance purposes. The bar can be pretensioned if you drive a track where there are more turns in one direction..

- a) Loosen the 17mm Jam nut. Then, to adjust the rear end links you can use a 14mm end wrench to turn the shaft of the links clockwise or counter clockwise to raise or lower the sway arm up or down. Make sure there is clearance between the sway bar and other moving parts such as the rear control arm. Remember to tighten the 17mm Jam nut when you are finished.



(33-44ft.lbs) for Mazda3 and (33-44ft.lbs) for Mazdaspeed3

Figure 2b

This completes the installation of your CorkSport Adjustable Rear Endlinks. Take a test drive and watch for rattles. If anything is heard check for loose nuts. Check out our [knowledgebase](#) for additional install information, tips, and helpful video's.

What's Next:

[CorkSport Mazda 3/Mazdaspeed 3 Front Adjustable Swaybar End Links](#)



Eliminate binding and remove the preload on your sway bar with the CorkSport Mazda 3 and Mazdaspeed 3 Adjustable Front End Links. Made to fit OEM and aftermarket sway bars, the CorkSport End Links have +/-6mm of adjustability, use a 5/8" hex stock that will reduce end link fatigue, and have sealed end M10x1.5 ball joints for low friction and added durability.

[CorkSport Underbody 4-Brace Set for Mazdaspeed 3/Mazda 3](#)

Reduce undesirable chassis flex and increase control during hard cornering and acceleration with the CorkSport Mazdaspeed 3 and Mazda 3 underbody 4-bar brace set. An often overlooked performance enhancement, especially on vehicles with lots of modifications, reinforcing the chassis with an underbrace set will reduce twisting of the chassis by linking the frame to the sub-frame thus locking the front sub-frame in place.

