

CorkSport Mazdaspeed Front Adjustable End Links

2010+ Mazdaspeed 3

This Package should contain:



- Two (2) CorkSport Turnbuckles



- Two (2) Right Hand Thread Ball Joints
- Two (2) Left Hand Thread Ball Joints



- Two (2) Right Hand Thread Jam Nuts
- Two (2) Left Hand Thread Jam Nuts



- Four(4) M10 Nuts



- Four (4) M10 Washers

- Installation Instructions

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Thank you for purchasing the CorkSport Mazdaspeed Front Adjustable End Links. Made to fit OEM and aftermarket front sway bars, the CorkSport Mazdaspeed 3 Front Adjustable End Links allows customers to tune any sway bar and remove the preload commonly associated with the suspension. We hope you enjoy your purchase. Please let us know your feedback by submitting a review at <http://www.corksport.com/corksport-mazdaspeed-3-front-adjustable-swaybar-end-links.html>

Pre-Installation Notes:



If you choose to disassemble the end links, be careful when putting them back together. The ball joints are steel and could easily strip the aluminum turnbuckle if you are not careful. One ball joint is Right Hand Thread and the other is Left Hand Thread, take care to ensure you installing the correct one in the right end.



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 area around the brakes.



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 are for use with a 2010+ MS3. If you have a different vehicle, contact us for the appropriate instructions for your application.

Materials and Time:



General Info.

Part #: Axl-3-315

Time Est: 20-30 min

Wrench Rating: 2/5



Tooling List

3/8 Drive Ratchet

14mm Long Socket

17mm Long Socket

19mm Socket

14mm Wrench

Two (2) 17mm Wrenches

Torque Wrench



Parts List

CorkSport Front Adjustable End Links

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. Remove the Factory Front End Links

- 1a) Jack up the front of the car and place on jack stands.
- 1b) Remove the front wheel.
- 1c) Remove the end link using a 14mm socket and 14mm wrench, (see **Figure 1a** and **1b** for end link mount locations).
- 1d) Repeat steps 1b-1c for the other side.

2. Install the CorkSport Front End Links

- 2a) Insert the passenger side CorkSport Front End Link into the sway bar and strut.
- 2b) Tighten the end link in place using the supplied nuts and washers with a 17mm socket and wrench. Tighten to 25 ft lbs.
- 2c) Install the driver side CorkSport Front End Link. Adjust the length of the end link so it slides into place easily.
- 2d) Tighten the end link in place using the supplied nuts with a 17mm socket and wrench. Tighten to 25 ft lbs
- 2e) Set the length of the end links so there is no preload on the sway bar. See the detailed instructions for more information.
 -  To secure its placement, you need to have at least 3-4 threads of the ball joint in the turnbuckle.
- 2f) Double check all nuts.
- 2g) Reinstall your wheels and torque the lug nuts to 85 ft-lbs. Lower the vehicle.



This completes the installation of your Mazda 3/Mazdaspeed 3 End Links. Take your vehicle for a test drive. After driving for approximately 20 miles check the jam nuts to make sure they are still tight. Tighten if necessary. Aftermarket end links are more susceptible to noise and some noise may occur after installing the CorkSport Adjustable Front End Links. Check out our [knowledgebase](#) for additional install information



What's Next: CorkSport Mazda 3/Mazdaspeed 3 Mid-Chassis Brace

Increase your cornering ability and get more feedback from the suspension of your Mazda 3/Mazdaspeed 3 with the CorkSport Mid-Chassis Brace. The CorkSport chassis brace will strengthen your Mazda or Mazdaspeed by adding rigidity and reducing the flex of your cars suspension, providing sharper handling and improving structural integrity while reducing the weight of the chassis brace by 20% over the Mazdaspeed 3 stock brace. <http://www.corksport.com/corksport-mazda-3-mazdaspeed-3-chassis-brace.html>

Detailed Instructions

1. Remove the Factory Front End Links

- A) Jack up the front of the car and place on jack stands.
- B) Remove the front wheel using a 19mm socket (or the special tool required for security or splined lug nuts).
- C) Remove the end link using a 14mm socket and 14 mm wrench. (See the red circle in Figure 1a and the green arrow in Figure 1b) for the end link mount locations. The top mount also holds on a bracket for the ABS sensor wire. Let this hang out of the way until reinstalling the top end link mount.
- D) Repeat steps 1B-1C for the other side of the vehicle.

2. Install the CorkSport Front Adjustable End Links

- A) Insert on the passenger side, a CorkSport Front End Link into the sway bar and the strut mounting tab. Leave the jam nuts loose for now.
- B) Tighten the end link in place using the supplied nuts with a 17mm socket and wrench. Make sure to reinstall the ABS wire bracket on the strut mount. Use the supplied washers on the end link side. (See Figure 2a and 2b for proper installation). Tighten to 25 ft-lbs.



Figure 1a

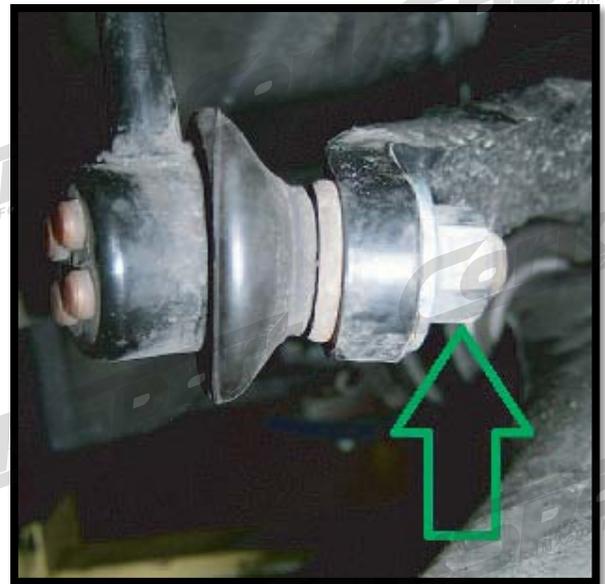


Figure 1b



Figure 2a

Detailed Instructions

2. Install the CorkSport Front Adjustable End Links Continued

- C) Install the driver side CorkSport Front End Link. Adjust the length of the end link so it slides into place easily.
- D) Tighten the driver side end link in place using the supplied nuts with a 17mm socket and wrench. Make sure to reinstall the ABS wire bracket on the top mount. Use the supplied washers on the end link side. See [Figure 2a](#) and [2b](#) for proper installation. Tighten to 25 ft-lbs.
- E) Set the length of the end links by adjusting one side to about the middle of its length. Tighten the end link by tighten the jam nuts using a 17mm wrench and holding the turnbuckle with another 17mm wrench. Then set the other side to be the correct length so the sway bar has no force on it. If you run out of adjustment on the second side, readjust the other side. You want to adjust them so there is no preload on the sway bar. Tighten down the jam nuts using a 17mm wrench while holding the turnbuckle with another 17mm wrench.  To secure its placement, you need to have at least 3-4 threads of the ball joint in the turnbuckle.
- F) Double check all nuts.
- G) Reinstall your wheels and torque the lug nuts to 85 ft-lbs. Lower the vehicle.

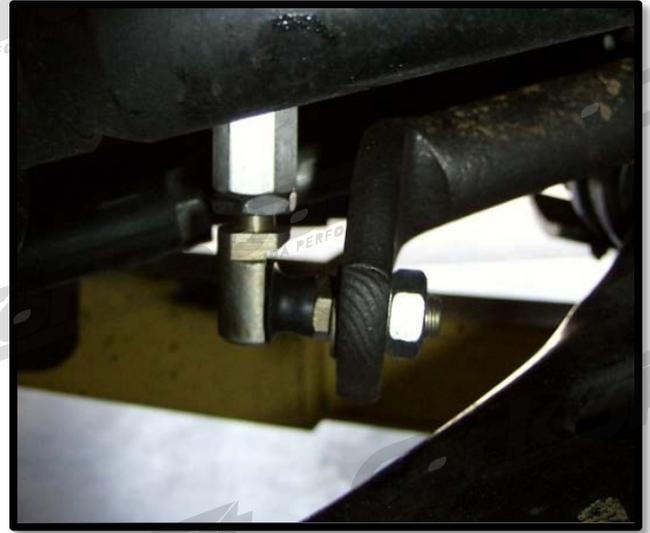


Figure 2b

-  **This completes the installation of your Mazdaspeed 3 End Links.** Take your vehicle for a test drive. After driving for approximately 20 miles check the jam nuts to make sure they are still tight. Tighten if necessary. Aftermarket end links are more susceptible to noise and some noise may occur after installing the CorkSport Adjustable Front End Links. Check out our [knowledgebase](#) for additional install information

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