

CorkSport Mazdaspeed Front Adjustable End Links

2004+ Mazda3/Mazdaspeed3



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 2004+ Mazda3/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: 30-45 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

Jack & Jack Stands



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) Measure front the ground to the center of your wheel to get your ride high
- 1b) Jack up the front of the car and place on jack stands.
- 1c) Remove both of the front wheels.
- 1d) Remove the end link using a 14mm socket and 14mm wrench, (see [Figure 1a](#) and [1b](#) for end link mount locations).
- 1e) Repeat steps 1b-1c for the other side.

2. Install the CorkSport Front End Links

- 2a) Insert the CorkSport Front End Link into the strut mount only. Along with the ABS wheel sensor. Repeat this for the other side of the vehicle
- 2b) Tighten the end link in place using the supplied nuts and washers with a 17mm socket or wrench. Tighten to 25 ft lbs. Leaving the jam nut loose.
- 2c) with the end link not connected to the sway bar. Reinstall one wheel and lower the car back down to the ground, Supporting one side of the suspension with a jack or block keeping the wheel straight.
- 2d) On the open side, Adjust the end link length so the ball joint goes into the sway bar in the proper position. Install the 17mm nut and tighten to 25 ft lbs



To secure its placement, you need to have at least 3-4 threads of the ball joint in the turnbuckle.

- 2e) Repeat Step 2D for the other side by reinstalling a wheel and moving a jack to the other side
- 2f) Tighten the top and bottom jam nuts. Repeat for the other end link.
- 2g) Take your vehicle for a test drive. After 20 miles then recheck the jam nuts to make sure they are tight



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 both front wheels using a 19mm socket (or the special tool required for security or splined lug nuts).
- C) Remove the end link using a 14mm socket or 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.



Figure 1a

2. Install the CorkSport Front Adjustable End Links

- A) Insert a CorkSport End Link assembly into the strut mounting tab along with the ABS sensor.
- B) Tighten the upper ball joint in place using the supplied nut and a 17mm socket or wrench. (See Figure 2a for proper installation). Tighten to 25 ft-lbs. Repeat Steps 2A-2B for the other side of the vehicle

 Leave the Jam nut loose.

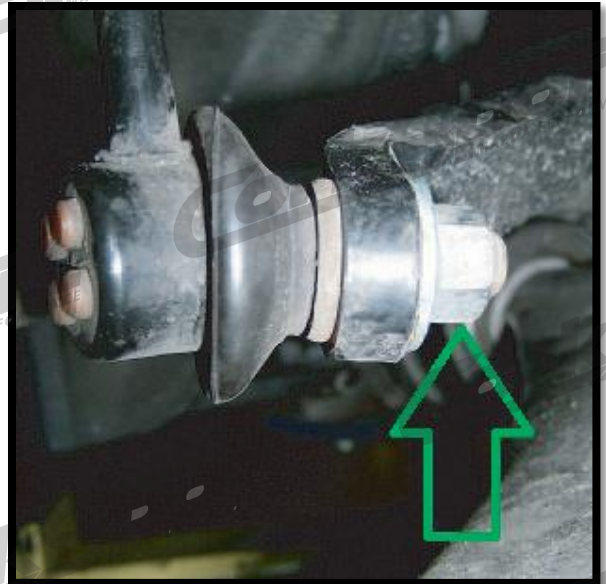


Figure 1b



Figure 2a

Detailed Instructions

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

- C) Without a lower ball joint connected to the sway bar, reinstall one wheel then lower the car back to the ground while supporting one side of the suspension with a jack or block. (Figure 2b). Keep the wheel straight.

NOTE Make sure hub-center to ground height is the same as if your wheel was installed (green line in Figure 2b).

- D) On the open side, adjust the end link length so the ball joint goes into the sway bar in the proper position. Install the 17mm nut and tighten to 25 ft lbs. (Figure 2c)

Adjust top and bottom ball joint depth in the turnbuckle so that the bottom ball joints are set at 90 degree angle and faced properly (centered in X and Y directions). This means there is no tension on the sway bar from the end-link assembly. See Figure 2c and Figure 2d for example.



To secure its placement, you need to have at least 3-4 threads of each ball joint in the turnbuckle.

For drivers that desire preloading of their sway-bar, the process is similar. The difference is that you will jack up one side of the suspension to 'load' the sway bar. Adjust end-link assembly length so that the ball joints are still properly aligned after the pre-loading procedure.

- E) Repeat step 2D for the other side by reinstalling a wheel and moving a jack to the other side.
- F) Tighten top and bottom jam nuts. Repeat for the other end link.
- G) Take your vehicle for a test drive. After driving for approximately 20 miles recheck 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



Figure 2b

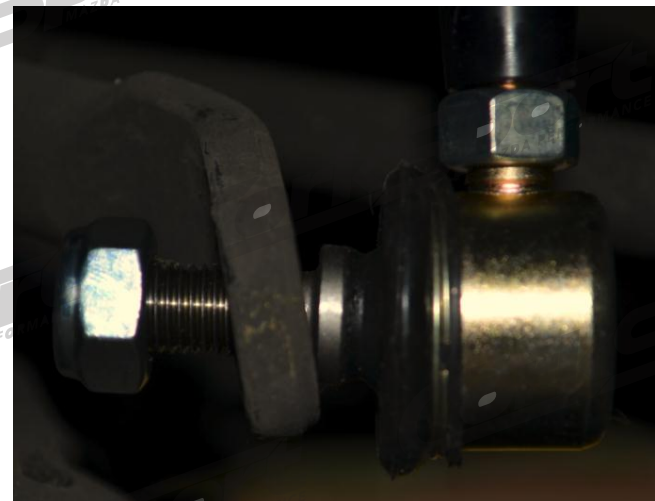


Figure 2c



Figure 2d