



**RAISING THE STANDARD
IN RACING SUSPENSION**

MADE IN THE USA

**VOODOO13USA.COM
TEAM@VOODOO13USA.COM
480.889.0812**

**254 W BROADWAY RD.
MESA, ARIZONA 85210**

MINI COOPER FRONT ADJUSTABLE SWAY BAR END LINKS

2002-2015 MINI COOPER R50 | R52 | R53 | R55 | R56 | R57 | R58 | R59



VOO-ADEL-0110

**ADJUSTMENT RANGE: 275MM - 305MM
ELIMINATE PRELOAD ON SWAY BARS
CORRECT SWAY BAR ORIENTATION**

INCLUDED:

- 2 X END LINKS
- 4 X BOLTS
- 4 X LOCKING NUTS
- 8 X MISALIGNMENT SPACERS

Installation of all Voodoo13 components are recommended to be completed by an experienced suspension tuning professional in a qualified installation facility. With proper installation and maintenance, Voodoo13 suspension products will provide exceptional performance and durability. For any questions, please contact Voodoo13 immediately. Thank you for choosing Voodoo13 for your suspension component needs!

RECOMENDED TOOLS + SUPPLIES

- General Mechanics Tool Set
- Vehicle Jack and Jack Stands
- Torque Wrench
- 14mm Wrench or Socket
- 17mm Wrench

PART BREAKDOWN

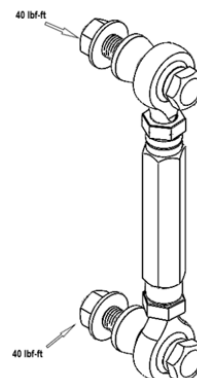
NOTE: For all OEM hardware, please refer to the vehicle's OEM service manual for torque specifications. For all included hardware, please torque to the specifications indicated below. It is recommended to use a torque wrench instead of an impact wrench during installation. Apply anti-seize to hardware threads.

NEED HELP?

Representatives are here to help with any questions concerning this product.

CALL 480.889.0812

Monday-Friday 8:30 AM to 5:30 PM MST



INSTALLATION PROCEDURE

STEP 1: Lift the vehicle to a safe height using the recommended factory lift points to gain access to the rear suspension. Ensure placement of safety jack stands as recommended by the manufacturer's service manual before working underneath the vehicle.

NOTE: Raising the entire rear end of the vehicle will allow for removal of the OEM sway bar end links. If only one side of the vehicle can be raised, a vehicle jack can be used on the lower portion of the opposite knuckle to relieve tension from the sway bar. Please consult a suspension tuning professional before proceeding with installation.

STEP 2: Use a 14mm socket to remove the hex nut securing the OEM end links to the sway bar and knuckle assembly.

STEP 3: Adjust the Voodoo13 end links to the same length as the factory end links by rotating the threaded heim joint clockwise or counterclockwise. Measurement of the OEM end link is taken from the center of one heim joint to the center of the other heim joint.

NOTE: Increasing the length of the Voodoo13 end links compared to the OEM end links is an acceptable way of increasing the spring rate of the sway bar. Ensure the position of the sway bar does not interfere with any vehicle components such as the lower control arms or the vehicle chassis. Since Voodoo13 end links are independently adjustable in length, sway bar preload can be adjusted. A preloaded sway bar can improve the corner balancing of a vehicle with height-adjustable shocks or struts or an uneven suspension ride height.

STEP 4: Prepare to install the Voodoo13 end links as depicted with the supplied misalignment spacers facing the sway bar and knuckle assembly. Install one hex bolt through the heim joint, spacer, and sway bar. Install the remaining hex bolt through the heim joint, spacer, and knuckle assembly. Loosely secure the Voodoo13 end links to the suspension components with two (2) locking hex nuts. Repeat these steps for the opposite side of the vehicle's suspension.

STEP 5: Once the Voodoo13 end links are installed to the proper length on both the driver and passenger side of the vehicle, torque the four (4) hex nuts to 40 lbf-ft using a torque wrench.

NOTE: With the Voodoo13 end links installed and the vehicle resting on a flat surface, the sway bar preload can be adjusted.

STEP 6: Once the desired lengths of the Voodoo13 end links are established, tighten the four (4) jams nuts against the heim joints on both sides of the end link. Properly torque the jams nuts to 30 lbf-ft using a torque wrench.

NOTE: Ensure all hardware is torqued to the correct specifications. Please consult a suspension tuning professional after 50 miles of continuous driving to ensure proper installation.

WARNING

High performance automotive components intended for off-road use only. Installation should be carried out by a qualified facility and installation professional. Improper use or installation may result in injury or death.

ABOUT VOODOO13

Headquartered in Mesa, Arizona, Voodoo13 USA is an aftermarket automotive performance part manufacturer specializing in the production of MIL-SPEC grade suspension components for both street and track vehicles. All products are proudly engineered, manufactured and assembled at their 100,000 Square Foot facility in Mesa, Arizona using only the highest quality materials sourced from US suppliers. Since its inception in 2013, Voodoo13 has become a brand synonymous with quality craftsmanship. Voodoo13 has set itself apart from the competition by being trusted both on and off the track by professional drivers and enthusiasts around the world. Learn more at Voodoo13usa.com or follow Voodoo13 on social @Voodoo13USA.