



Installation Instructions

Thank you for purchasing this anti-sway bar kit. Please read through these instructions before installation.

Front Anti-Sway Bar Kit for Freightliner M2-112

part #1209-147
1-5/8" diameter

Note: This kit will only work on vehicles without a factory-installed front sway bar. Will not fit Detroit front axle applications.



INTRODUCTION

Thank you for purchasing this anti-sway bar kit. This kit is designed to improve the handling characteristics of your vehicle by reducing the body roll and balancing the weight transfer during cornering. The anti-sway bar kit is engineered for long life and trouble-free performance.

All the hardware needed for installation is included in this kit. Refer to the PARTS LIST in these instructions to identify the parts.

SUGGESTED TOOLS

The following tools are suggested to complete the installation procedures:

- General hand tools
- Torque wrench
- Ratchet strap, potentially
- Second person for assistance

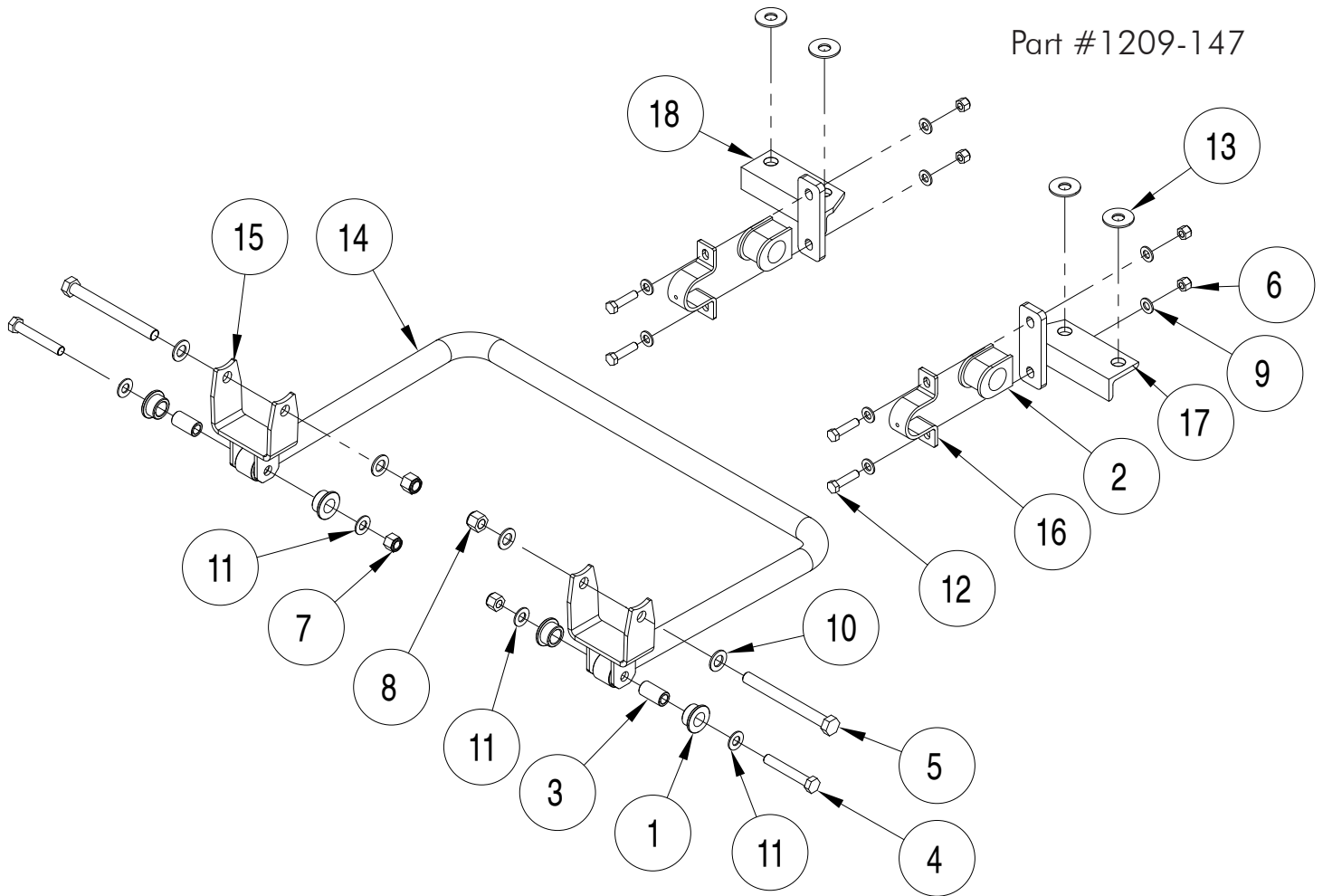
WARNING

Failure to follow these instructions can result in property damage, personal injury or even death.

- If raising the vehicle to install the anti-sway bar, always support the vehicle with jack stands at both frame rails or at the rear axle before working underneath. Ensure that the jack stands are securely positioned, and are rated at or above the weight of the vehicle.
- The installer must read the instructions and use all bolts and parts supplied. Use only the parts supplied by ROADMASTER to install this kit.
- Minor modifications are sometimes necessary due to slight vehicle variations, even for the same year, make and model.
- Regardless of year, make and model, a wide range of options for specific applications may or may not interfere with the installation. It is the installer's responsibility to make certain that equipment is not damaged once the suspension solution travels through the full range of motion. Failure to ensure adequate clearance could result in non-warranty property damage, personal injury or even death.
- If running changes were made by the manufacturer after this kit was designed, there may be weldments, braces, gussets, or other structural items which interfere with the installation. It is the installer's responsibility to allow for these running changes without sacrificing the structural integrity of the anti-sway bar. Failure to securely fasten the anti-sway bar could result in property damage, personal injury or even death.
- ROADMASTER will not be responsible for any damage or injury resulting from any modification or alteration.
- Check ALL the fasteners for tightness before and after road testing the vehicle.
- Do not use this document for custom fabrication, as it may not show all parts or structural components.
- Do not use an air impact wrench when re-installing bolts, as stripped threads may result.
- This anti-sway bar is only warranted for the original installation. Installing a used anti-sway bar on another vehicle is not recommended and will void the warranty.

PARTS LIST

Part #1209-147



| ITEM | QTY | DESCRIPTION | PART NUMBER |
|------|-----|-------------------------------|-------------|
| 1 | 4 | BUSHING | 205209-00 |
| 2 | 2 | BUSHING | 205222-20 |
| 3 | 2 | BUSHING SLEEVE | 205503-00 |
| 4 | 2 | 5/8-11 x 4" BOLT - GRADE 8 | 350158-50 |
| 5 | 2 | 3/4-10 x 7 1/2" BOLT- GRADE 8 | 350193-00 |
| 6 | 4 | 1/2-13 NYLON LOCK NUT | 350259-00 |
| 7 | 2 | 5/8-11 NYLON LOCK NUT | 350263-20 |
| 8 | 2 | 3/4-10 NYLON LOCK NUT | 350265-00 |
| 9 | 8 | 1/2" HARDENED WASHER | 350308-80 |
| 10 | 4 | 3/4" SAE WASHER | 350314-20 |
| 11 | 4 | 5/8" SAE WASHER | 350348-80 |
| 12 | 4 | 1/2-13 x 2" BOLT - GRADE 8 | 350703-00 |
| 13 | 4 | 3/4" FLAT WASHER | 350732-50 |
| 14 | 1 | ANTI-SWAY BAR | 580607-00 |
| 15 | 2 | FRAME BRACKET | B1080 |
| 16 | 2 | BUSHING CLAMP | B141 |
| 17 | 1 | AXLE BRACKET | B360 |
| 18 | 1 | AXLE BRACKET | B361 |
| 19 | 1 | AQUALUBE | 400011-30 |

INSTALLATION

The following instructions must be followed in the order listed to ensure a proper installation and to preserve the ROADMASTER warranty.

1. Remove the lower engine cradle bracket.

Remove the four factory nuts attaching the lower engine cradle bracket that supports the electrical lines. It is shown in Figure 1. Pull the bracket toward the engine and allow it to hang to provide clearance for the leaf spring hanger bolts to be removed in the next step.

2. Remove the forward leaf spring hanger bolt.

Starting on the passenger side only, remove the factory nut from the bolt which secures the leaf springs. Using the vehicle's leveling system, raise the front end of the coach, allowing weight to be taken off the forward leaf spring hanger bolt. Then, remove the bolt (Fig.2). *Note: You may need a drift pin or punch to knock out the bolt. It will not be replaced.*

3. Install the B1080 frame bracket.

Locate the supplied B1080 upper frame bracket and install it to the leaf spring hanger using the supplied 3/4" bolt and 3/4" flat washer and B1080 frame bracket. Finish the bolt with a 3/4" flat washer and nut (Fig.2). Leave the bolt finger tight for now.

Note: If your hole has shifted, use the leveling system to re-align it. It may also be necessary to use a heavy-duty ratchet strap. If this is required, hook it to the axle and frame horn and pull the two ends of the strap together until the holes align enough to install the bolt.

Note: It may be necessary to use a larger 14-16" C clamp to compress the spring hangers in order to install the B1080 correctly.

4. Repeat steps 2 and 3 for the driver's side.

Repeat steps 2 and 3 but you will need someone to turn the wheel all the way to the right and hold it so you can gain access to the leaf spring hanger bolt.

5. Install the axle brackets.

Ensuring that the suspension is mostly loaded but still allowing clearance for access, starting on either side, remove the forward U bolt nuts using a 1-1/8" socket and install the appropriate axle bracket using the supplied spacer washers between the axle and the bracket (Fig.3). Refer to the assembly drawing on page 2 for proper orientation of brackets and washers. Using red Loctite, secure the axle brackets, torquing the U bolt nuts to 350 ft-lbs.

Figure 1

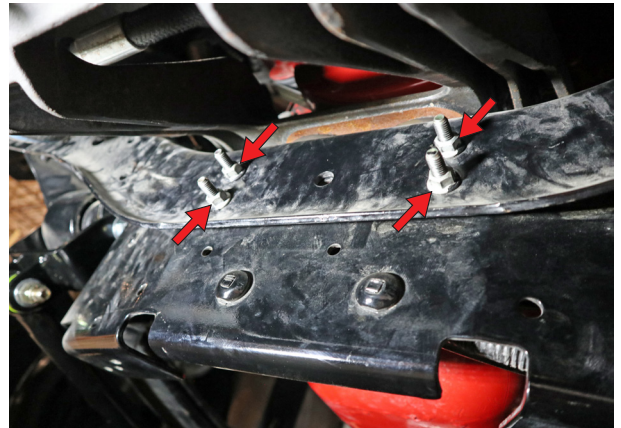
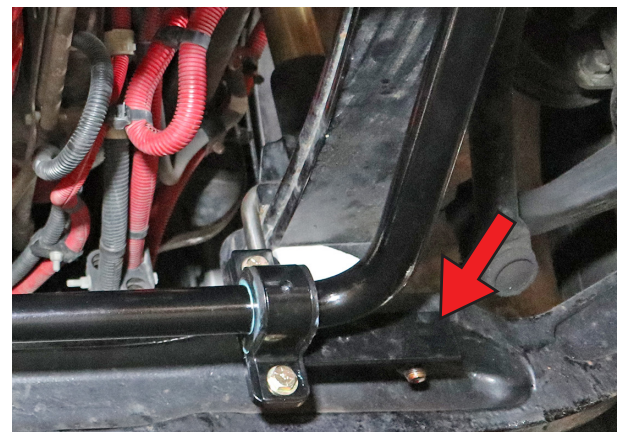


Figure 2



Figure 3

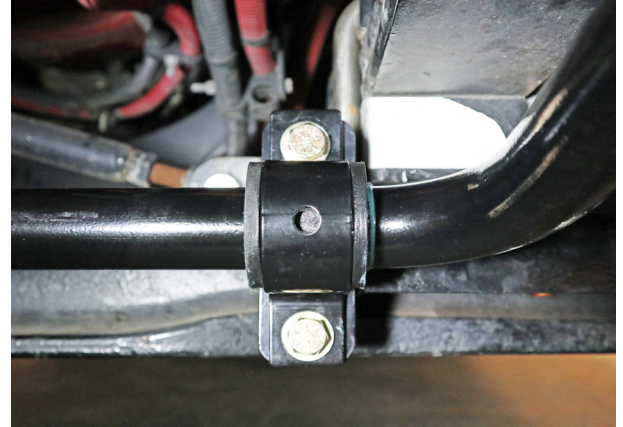


INSTALLATION

Figure 4

6. Prepare and install the anti-sway bar.

Note: You may need the assistance of a second person for this step. Loosely install the sway bar to the lower frame bracket using the supplied 5/8" bolts, washers and nuts. Rotate it up to the axle to obtain the approximate location for the bushings and clamps. Lubricate bushings and install bushings and clamps. Rotate once again to the axle and secure the bushing clamps using the supplied 1/2" bolts, flat washers and nuts (Fig.4). Tighten the 1/2" bolts to 80 ft-lbs before proceeding to the next step.



7. Final tightening of all bolts.

Fully load the suspension. Now, tighten the spring hanger bolts in this sequence: 5/8" (lower frame bracket) to 160 ft-lbs, and then the 3/4" (upper frame bracket) bolts to 280 ft-lbs.

8. Check clearance and reinstall the lower engine cradle bracket.

Check the nut side of the 3/4" upper frame hanger bolt. Ensure it is not contacting any hoses. If needed, zip tie the hoses out of the way. Then, reinsert the lower engine cradle bracket and re-secure the factory nuts using red Loctite.

9. Recheck all fasteners and then test drive. Recheck fasteners after the test drive.

WARNING

After road testing, re-check all fasteners for proper tightness — if a fastener has worked loose or fallen off, re-tighten or replace it. Without all kit components properly tightened or in place, the anti-sway bar will not stabilize the vehicle at full capacity, which may cause reduced cornering ability or other reductions in vehicle handling or performance.

Failure to follow these instructions may result in property damage, personal injury or even death.

WARNING

The anti-sway bar is not a load-bearing component

Do not tow or hoist the vehicle using the anti-sway bar or its mounting brackets as attachment points. The anti-sway bar is not designed to carry the weight of the vehicle and may collapse, which will damage the anti-sway bar components, the suspension, or other components. The vehicle will detach or fall, which may cause severe personal injury.

Failure to follow these instructions may result in property damage, personal injury or even death.