



UTKODIAKR Instructions

Kodiak 4500-5500 Motor Home Chassis

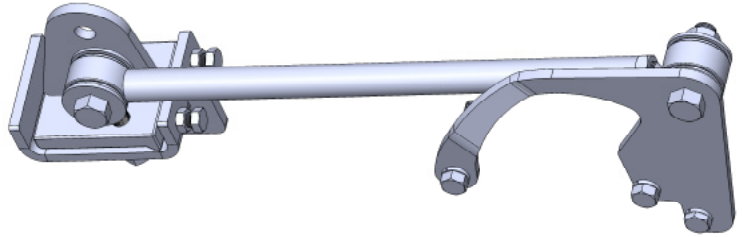
Rear Bar

Each installation may vary due to chassis manufacturing options and variations in design. The rod assembly may be installed in several different combinations, such as either front or rear of the supplied brackets as well as using different bracket holes. The important thing is to maintain clearance between your UltraTrac and any chassis component (moving and stationary) such as exhaust, vehicle frame, differential, or any other item which might interfere with the operation of this product. Pictures and diagrams may not represent the best installation for every application.

Bolt Torque Specifications

Torque in Foot-Pounds for Inch Bolts

| Bolt Size | Grade 5 | Grade 8 |
|-----------|---------|---------|
| 1/4" | 10 | 14 |
| 5/16" | 19 | 29 |
| 3/8" | 33 | 47 |
| 7/16" | 54 | 78 |
| 1/2" | 78 | 119 |
| 5/8" | 154 | 230 |
| 3/4" | 257 | 380 |



Bolt Torque Specifications

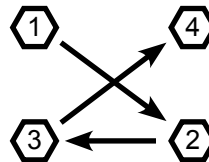
Torque in Foot-Pounds for Metric Bolts

| Bolt Size | Grade 8.8 | Grade 10.9 |
|-----------|-----------|------------|
| 6MM | 6 | 8 |
| 8MM | 16 | 22 |
| 10MM | 31 | 40 |
| 12MM | 54 | 70 |
| 14MM | 89 | 117 |
| 16MM | 161 | 230 |
| 18MM | 222 | 318 |

Bolt Torque Specifications

Torque in Foot-Pounds for Grade 5 U-Bolts

| Bolt Size | Fine | Course |
|-----------|------|--------|
| 3/8" | 21 | 18 |
| 7/16" | 33 | 29 |
| 1/2" | 52 | 45 |
| 5/8" | 107 | 91 |
| 3/4" | 190 | 165 |
| 7/8" | 304 | 270 |



*Always tighten and torque u-bolts in a cross pattern sequence.

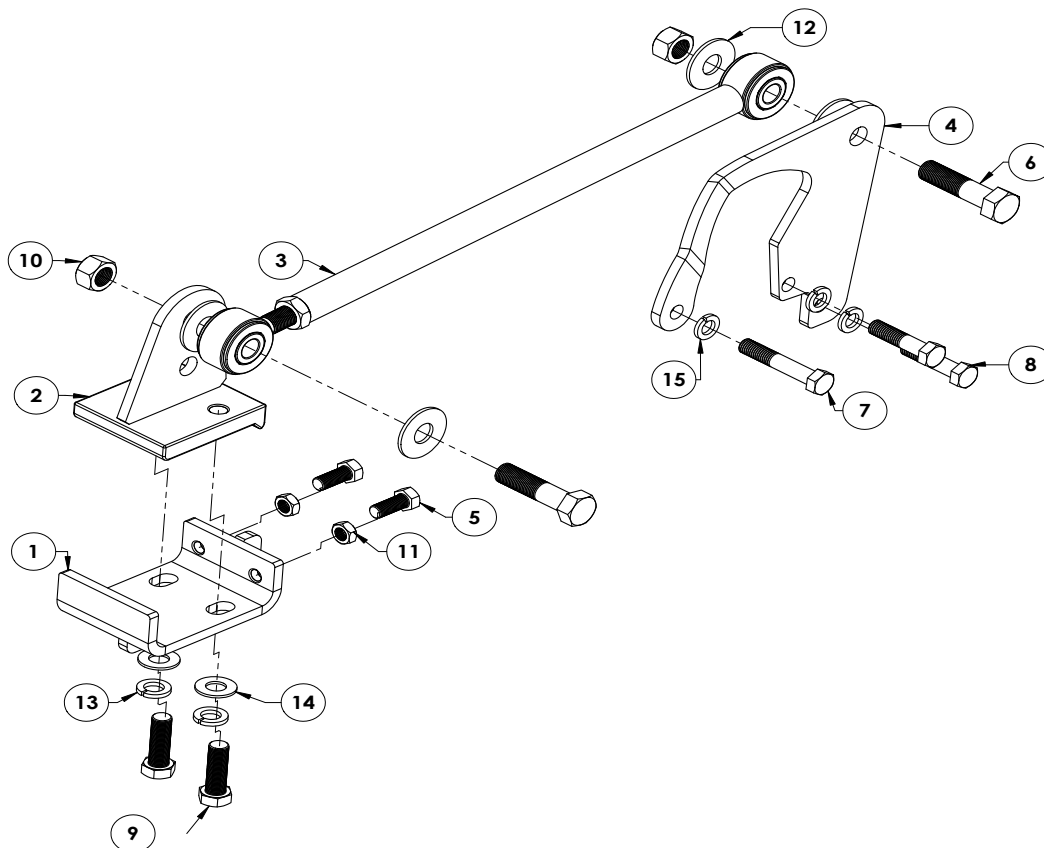
NOTICE

- Only a qualified mechanic using normal automotive tools and following all safety standards should perform the installation of this product.
- If the vehicle is equipped with air bags be sure that nothing interferes with the deployment of them.
- Be sure to use Loctite® Red on all bolts before tightening. Tighten all bolts according to the torque charts provided or to the manufacturer's torque specifications on OEM parts. If no manufacturer specifications can be found then use the torque charts provided.
- Dealer or installer be certain the user receives these instruction sheets.

Kodiak 4500-5500 Motor Home Chassis Rear Bar

Tools Required

Torque Wrench
 Loctite® RED
 3/4" Socket
 3/4" Wrench
 1-1/16" Socket
 22MM Socket
 1-1/8" Wrench
 6" Drive Extension



| Item No. | Part Number | Description | Qty. |
|--------------------|---------------|---|------|
| 1..... | 61-6745..... | UltraTrac Frame Bracket Weldment | 1 |
| 2..... | 61-6746..... | UltraTrac Nut Plate Frame Bracket Weldment | 1 |
| 3..... | 62-3633..... | UltraTrac Rod Assembly | 1 |
| 4..... | 101-7143..... | UltraTrac 110/115 Rear End Spicer Bracket | 1 |
| 5..... | 201-0308..... | 1/2"-20 x 1-1/4" Hex Head Bolt, Grade 5, ZP | 2 |
| 6..... | 201-0632..... | 3/4"-16 x 3" Hex Head Bolt, Grade 5, ZP..... | 2 |
| 7..... | 201-0812..... | 14MM-2MM x 80MM Hex Head Bolt, Grade 10.9..... | 1 |
| 8..... | 201-0813..... | 14MM-2MM x 50MM Hex Head Bolt, Grade 10.9..... | 2 |
| 9..... | 201-0912..... | 5/8"-18 x 2" Hex Head Bolt, Grade 5, ZP..... | 2 |
| 10..... | 202-0168..... | 3/4"-16 Stover Lock Nut, ZP | 2 |
| 11..... | 202-0184..... | 1/2"-20 Jam Hex Nut, Grade 5, ZP | 2 |
| 12..... | 203-0007..... | 3/4" Flat Washer, ZP | 4 |
| 13..... | 203-0013..... | 5/8" Lock Washer, ZP | 2 |
| 14..... | 203-0106..... | 5/8" SAE Flat Washer, ZP..... | 2 |
| 15..... | 203-0131..... | 14MM Lock Washer, ZP..... | 3 |
| 16(not shown)..... | 190-0155..... | 10-1/2" Loom Flex, Grade .413 ID..... | 1 |
| 17(not shown)..... | 290-0275..... | 8" Nylon Cable Tie | 2 |

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Rear Bar

1. Position the vehicle on a level surface with the front wheels straight ahead and sitting at normal ride height. Set the brake and chock all the wheels.
2. Hold the axle bracket up to the rear end to locate the three (3) OEM bolts that line up to the bracket. Remove the OEM bolts and install the bracket to the rear end with the supplied bolts and lock washers. If the rear end had flat washers, reuse the washers in between the bracket and the rear end housing. Tighten all bolts.
3. Position the frame bracket onto the passenger side frame rail and loosely secure it with the nut plate frame bracket and the 5/8"-18 x 2" bolts with 5/8" lock and flat washers. Loosely install the two (2) 1/2"-20 x 1-1/4" bolts with the 1/2"-20 jam nuts into the frame bracket. The bracket needs to be loose enough on the frame rail to move back & fourth to line up with the axle bracket.
4. Install the rod assembly onto the front of the axle bracket with one (1) 3/4"-16 x 3" bolt, two (2) 3/4" flat washers and a 3/4" lock nut. Be sure the flat washers are on either side of the urethane bushing. Position the frame bracket so it is straight with the axle bracket and rod assembly. Adjust the length of the rod assembly until you are able to pass a bolt thru both the rod assembly and frame bracket. Install a 3/4" bolt, two (2) flat washers and a 3/4" lock nut into the rod assembly and frame bracket. Leave all bolts finger tight for now.
5. Once the frame bracket is straight with the rod assembly and axle bracket, alternately tighten down the 5/8" bolts on the frame bracket and torque to specifications. Then torque the 1/2"-20 x 1-1/4" bolts to the frame and tighten the jam nuts.
6. Torque the 3/4" bolts in the rod assembly to specifications. Inspect for any wiring or hoses that may rub against the brackets and secure in a safe position with the loom and/or cable ties provided.



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