INSTALLATION INSTRUCTIONS

2” DROP SPINDLES

67-69 F Body / 68-74 X Body / 64-72 A Body
PART NUMBERS (PN): 910-3500B

Technical Support

We strive to provide the utmost pre- and post-sales support for our products. Whether you just need upgrade advice, or assistance in adjusting or installing a product, our experienced support staff is always ready to help optimize your UMI product.

CHAT WITH A UMI PROFESSIONAL TODAY
Need installation advice or clarification on the instructions? Scan the QR code (right) to chat directly with a UMI Professional or use the contact information provided to talk to customer service.
Note: UMI social media accounts do not respond to customer service questions.

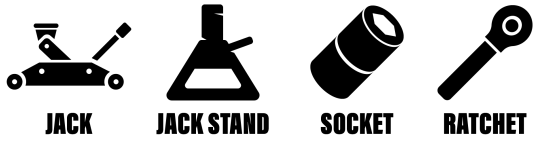
CONTACT CUSTOMER SERVICE
Hours: M-F 8:00-4:30 (EST)
Email: support@umiperformance.com
Call: +1 (814) 343-6315
Address: 509 Hemlock Street
Philipsburg, PA 16866

SOCIAL MEDIA
#umiequipped #umiperformance
@umiperformanceinc

Included Parts

Part Description	Quantity	PN
2” DROP SPINDLE	2	910-3500B

Tools Needed



INSTALLATION INSTRUCTION

DISCLAIMER
UMI Performance shall not be held liable for any injuries or damages resulting from the improper installation of this product. It is the sole responsibility of the user to ensure that the product is installed correctly and in accordance with all applicable laws, codes, and regulations. The user assumes all risk and liability for any injuries or damages that may arise from the improper installation of this product. It is important to follow these steps carefully and use the proper tools to avoid damaging the vehicle or causing injury to yourself. If you are uncertain about any part of the installation process, it is recommended that you seek the assistance of a professional mechanic.

1) Park on a smooth, level, flat surface. Block the rear wheels with wheel chocks.

2) Loosen but do not remove the lugnuts.

3) Lift the front of the vehicle using a properly rated jack. Lift the vehicle until the front tires are 6-8 inches off the ground.

4) Place jack stands under the chassis to support the vehicle. It is important to make sure the vehicle is properly supported to prevent harm to ones self and prevent any damage to the vehicle.

5) **Oem Spindle Removal:** Remove both caliper bolts to detach the caliper from the spindle . Slide the brake caliper off of the brake rotor ensuring not to stretch or damage the rubber brake hose. Be sure to support the caliper with a piece of wire or cord to prevent damage to the brake line. **Fig 1**

6) Remove the hub and rotor assembly from the spindle by removing the grease cap, cotter pin, and the nut from the spindle pin. Carefully slide the rotor assembly off the spindle pin. Do not let the outer bearing fall out of the hub. **Fig 2**

7) Remove the cotter pin from the nut on the tie rod end. Loosen the but, but do not remove it completely. Use a tie rod puller or use a hammer to strike the side of the steering arm until the tie rod end is dislodged. Swing the tie rod end out of the way. **Be sure not to strike the nut or the tie rod end itself as this will damage the steering components. Fig 3**

8) Detach the dust cover and steering arm by removing the three bolts on the face of the spindle. **Fig 4**

9) Place a floor jack under the lower control arm and lift until a slight compression of the suspension is achieved. Turn the spindle to access the lower ball joint without interference.

10) Remove the cotter pin and loosen but do not remove the lower ball joint nut. Strike the lower portion of the spindle beside the ball joint, this will dislodge it from the taper.

11) Loosen the upper ball joint nut with the same procedure as the lower, leaving the nut on the threads. Using the hammer method as above, loosen the upper ball joint from its position. **Fig 5**

12) Once both ball joints are dislodged, remove the upper and lift the control arm to free the spindle. Remove the lower nut and slide the spindle off the lower ball joint nut.

FIGURES FOR REFERENCE

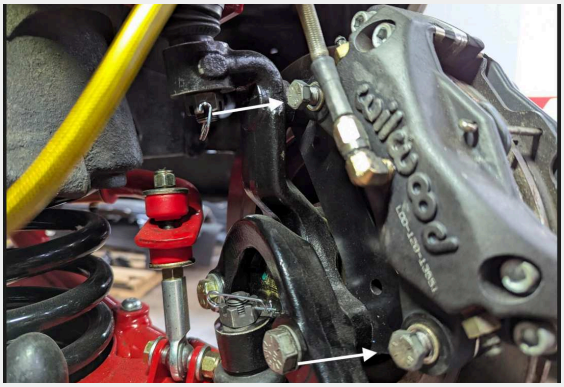


Figure 1: Remove Caliper Bolts

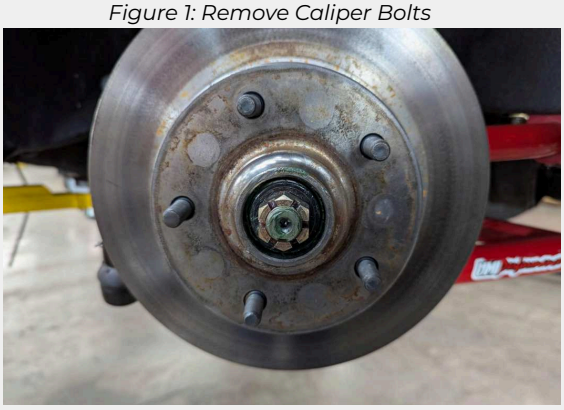


Figure 2: Remove Rotor Assembly

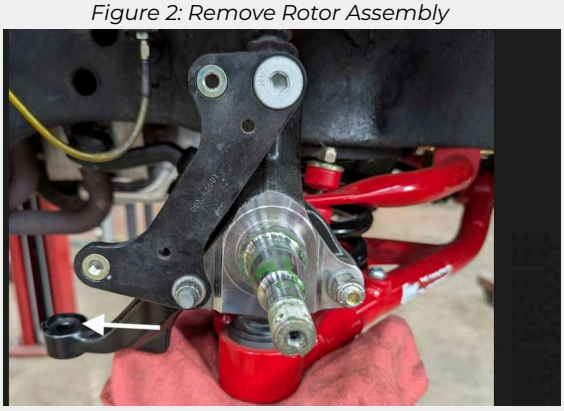


Figure 3: Remove Tie Rod Nut

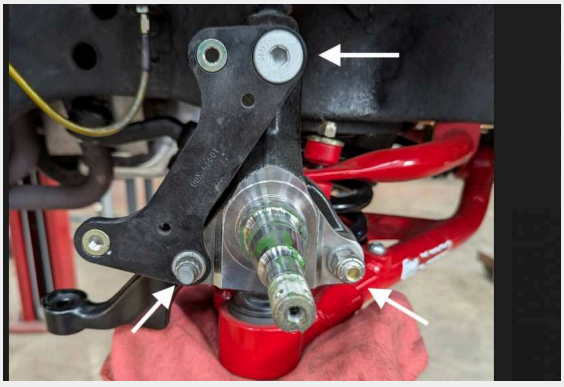


Figure 4: Remove Dust cover and Steering arm.

INSTALLATION INSTRUCTION

13) Place the new spindle on the lower ball joint and secure it with the original ball joint nut. Lift the upper control arm and place the upper ball joint into position on the new spindle. Torque the upper ball joint nut to **50 ft lbs.** Torque the lower ball joint nut to **65 ft lbs.** Secure them with new cotter pins.

14) The steering arm will attach to the back of the spindle on the bottom holes. Install both bolts and torque to **85 ft lbs.**

15) Place the dust cover gasket on the spindle shaft. Hold the caliper bracket against the spindle and place the original dust cover over the brake bracket . Line up the top bolt hole on the spindle with the bracket and dust cover. Line up the bottom holes of the brake bracket and dust cover on the spindle and torque to **85 ft lbs.**

16) Install the tie rod end into the steering arm on the new spindle, tighten and torque the nut to **35 ft lbs.** Install a new cotter pin.

17) Before mounting the hub and rotor assembly, take the time to determine that the bearings are in good condition and are packed with enough grease.

18) Mount the hub and rotor assembly onto the new spindle followed by the slotted washer and castle nut. Tighten the nut while turning the wheel to seat the bearings. Do not over tighten as this will cause damage to the bearings. Once tightened, align the nearest hole in the spindle pin with the slots in the castle nut and install the cotter pin, followed by the dust cap.

19) Mount the brake caliper onto the new brake bracket . Ensure the brake pads are in their correct position and compress the piston if needed. Install caliper and torque to **35 ft lbs.** Turn the wheel left and right to check for interference between brake lines and other components.

20)Reinstall the front wheels and torque to manufacturer specifications. You can now lower the vehicle back down on the ground.

20) Proper alignment will need to be done after install is completed.

FIGURES FOR REFERENCE

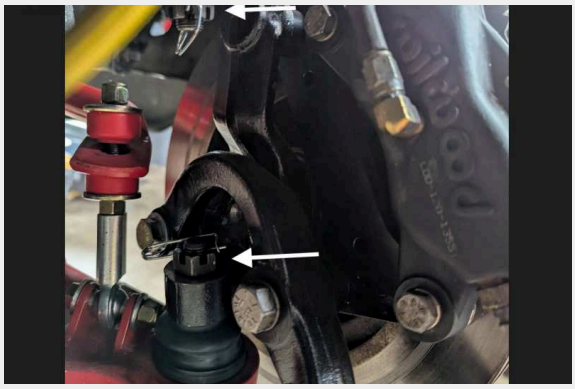


Figure 5: Remove Balljoint Nuts