

CAUTION: Observe proper safety and repair procedures for installation of all chassis parts. Some chassis parts require specialized tools and experience and therefore **MUST** be installed by a qualified technician otherwise an unsafe vehicle and/or personal injury could result. Wear safety glasses and other protection.

WARNING: Before beginning, check for any damaged or loose suspension connections. Loose connections here indicate worn or broken parts which **MUST BE REPLACED**. Failure to replace a damaged or worn spindle and/or link may cause the wheel to separate from the vehicle, possibly resulting in serious personal injury.

NOTE: These parts are intended for use in vehicles with abnormal alignment and are designed to replace the non-adjustable factory equipment. These parts are not designed for installation on vehicles with suspension and/or steering systems modified for racing, competition or any other non-standard purpose.

Note for 3890: To minimize possible noise characteristics of polyurethane bushings, always lube with anti-seize, silicone, or naval grease before installation.

Before starting alignment, complete inspection checklist and determine the amount of change needed.

1. Match left and right hand threaded parts and assemble the SmartArm™. Thread the Jam Nuts all the way down on the End Links [left hand Jam Nut (silver) on the left hand threaded End Link (first thread missing), right hand Jam Nut (black) on the right hand threaded End Link (complete threads)]. Thread each End Link all the way into the Center Tube (put the left hand Link into the end of the Center Tube which has the radial groove next to the wrench flats).
2. Raise the rear of vehicle and support body safely on jack stands. Remove rear tire and wheel assembly.
3. Remove the two bolts from the inner end of the upper support arm at the body mounting bracket.
4. Remove the bolt from the spindle at the upper support arm and remove the upper support arm.
5. Install the new SmartArm™ onto the body using the two original mounting bolts and torque to 28 ft. lbs. [38 N.M.].
6. For the 3892 only, place the small steel sleeve inside the large steel tube in the rubber bushing.
7. Attach the bushing end of the SmartArm™ to the spindle.
8. For the 3892 only, safely raise the spindle close to its normal ride position in the wheel well to properly set the rubber bushing (do not raise the body off the jack stands for safety).
9. Tighten the arm to spindle bolt to 40 ft. lbs. [54 N.M.] (return the spindle to its previous position if using the 3892).
10. Replace the tire and wheel assembly.
11. Adjust camber by loosening jam nuts and turning the Center Tube to the desired specifications. **DO NOT** extend the threads beyond their limits (ensure that the dimple marks on the End Link threads are still located within the Center Tube).
12. Tighten the jam nuts to 80 ft. lbs. [108 N.M.], set rear toe to factory specifications and road test vehicle.

ALWAYS CHECK FOR SUSPENSION CLEARANCE

Modifying any suspension component may change other part clearances and cause binding or interferences. After installing any Ingalls' product, the suspension must be checked for binds or interference between all components, other arms and the chassis. Be sure that all control arms, struts and steering ends move freely through the full movement of the suspension (springs may need to be removed to fully check component travel). Installing any Ingalls' product on a modified vehicle (lowered or raised) from the original factory design requires a detailed check of all suspension components and their movements. Ingalls recommends that a trained technician install all products.

Limited Warranty

Subject to Disclaimer. All Ingalls products are warranted against defects in materials and workmanship for ninety (90) days from date of purchase. During the warranty period, Ingalls will repair, or at its option replace at no charge, components that prove to be defective. The product must be returned, shipping prepaid, to Ingalls facility. This limited warranty does not apply if the product is damaged by accident or misuse. The foregoing warranty is in lieu of all other warranties expressed or implied including but not limited to any implied warranty of merchantability, fitness, or adequacy for any particular purpose or use. Ingalls shall not be liable for any special, incidental or consequential damages whether in contract, tort, or otherwise resulting from the use or the inability to use the product.

Warranty Disclaimer

Use of this product in competition, or use on vehicles altered from original manufacturer's specifications or settings, **EXPRESSLY VOIDS WARRANTY**. The user is urged to inspect for suspension binding or interference when the product is used in these manners. However, due to the varying conditions and manner of use which the product will be subjected to in such uses, Ingalls Engineering Co., Inc. makes no warranties, either express or implied, including any warranty of merchantability or fitness for a particular purpose for use in competition or with specifications or settings other than those specified by the original manufacturer's specifications.

