



# K82-0815-0 Can-Am Defender HD10 +2 A-Arm Kit



## INTRODUCTION

# PLEASE RETAIN THIS DOCUMENT FOR FUTURE REFERENCE

If your ZBROZ® product has a damaged or missing part, please contact customer service directly and a new replacement part will be sent to you immediately.

For warranty issues, please return to the place of installation and contact ZBROZ®.

Business hours are Monday through Friday 8AM-5PM MST.

PHONE: (435) 753-7774

EMAIL: [customerservice@zbrozracing.com](mailto:customerservice@zbrozracing.com)

WEBSITE: [www.zbrozracing.com](http://www.zbrozracing.com)

## LIMITED LIFETIME WARRANTY

ZBROZ® will warranty to the original purchaser any failed ZBROZ® suspension product in the event of failure due to construction or material failure of the product. You will be required to contact ZBROZ® customer service with descriptions and photos that resulted in failure.

ZBROZ® builds suspension products to meet and exceed your expectations in quality, performance and durability. All ZBROZ® suspension products are rigorously tested during development and prototype parts are pushed to the limit by professional industry athletes, backcountry athletes and race teams. ZBROZ® Limited Lifetime Warranty excludes the following wear parts as these parts are considered defective when worn: Ball Joints, Bushings, Bump Stops, Tie Rod Ends, Heim Joints, Shock Absorbers Product purchased directly from ZBROZ® has a 90 day return policy on uninstalled products from the date of purchase (may be subject to restocking fee). Uninstalled product returns must be in the original ZBROZ® packaging. Please call (435) 753-7774 to get an RMA# for any return. Customer is responsible for shipping costs back to Zbroz Racing. Returns without RMA# will be refused. Contact ZBROZ® directly about any potentially defective parts prior to removal from vehicle.

ZBROZ® is NOT responsible for any subsequent damages to any related vehicle parts due to misuse, abuse, improper installation, or lack of maintenance. Furthermore, ZBROZ® reserves the right to change, modify or cancel this warranty without prior notice.

## **FOLLOW INSTRUCTIONS TO ENSURE PROPER INSTALLATION**

***READ INSTRUCTIONS THOROUGHLY AND COMPLETELY BEFORE BEGINNING INSTALLATION. INSTALLATION BY A CERTIFIED PROFESSIONAL MECHANIC IS HIGHLY RECOMMENDED. ZBROZ® IS NOT RESPONSIBLE FOR ANY DAMAGE OR FAILURE RESULTING FROM IMPROPER INSTALLATION.***



### **TOOLS:**

- Ratchet (1)
- 15mm Socket (1)
- 15mm End Wrench (1)
- Ball Joint Press (1)
- Snap Ring Pliers (1)
- 19mm Open End Wrench (1)
- 10mm Socket (1)



### **PARTS:**

- Lower Right Hand A-Arm (1)
- Lower Left Hand A-Arm (1)
- Upper Right Hand A-Arm (1)
- Upper Left Hand A-Arm (1)
- 6mm 1.0 Break line bolt nut (2)

## Step 1 — Safety Warning



- **MISUSE OF THIS PRODUCT COULD LEAD TO INJURY OR DEATH.** You should never operate your vehicle under the influence of alcohol or drugs. All raised vehicles have increased risk including blind spots; damage, injury and/or death can occur if these instructions are not followed.
- Suspension systems or components that enhance the on and off-road performance of your vehicle may cause it to handle differently than it did from the factory. Extreme care must be used to prevent loss of control or vehicle rollover during abrupt maneuvers.
- Always operate your vehicle at reduced speeds to ensure your ability to control your vehicle under all driving conditions. Failure to drive safely may result in serious injury or death to driver and passengers. You should never operate your vehicle under the influence of alcohol or drugs.
- Driver and passengers must **ALWAYS** wear your seat belts, avoid quick sharp turns and other sudden maneuvers. ZBROZ® does not recommend the combined use of suspension lifts, body lifts, or other lifting devices.

- Constant maintenance is required to keep your vehicle safe. Thoroughly inspect your vehicle before and after every off-road use.
- It is the responsibility of the retailer and/or the installer to review all state and local laws, with the end user of this product, related to bumper height laws and the lifting of their vehicle before the purchase and installation of any ZBROZ® products.
- It is the responsibility of the driver to check their surrounding area for obstructions, people, and animals before moving the vehicle.
- All raised vehicles have increased blind spots; damage, injury and/or death can occur if these instructions are not followed.

## Step 2 — Installation Warning



- All steps and procedures described in these instructions were performed while the vehicle was properly supported on a two post vehicle lift with safety jacks.
- Use caution during all disassembly and assembly steps to insure suspension components are not over extended causing damage to any vehicle components and parts included in this kit.

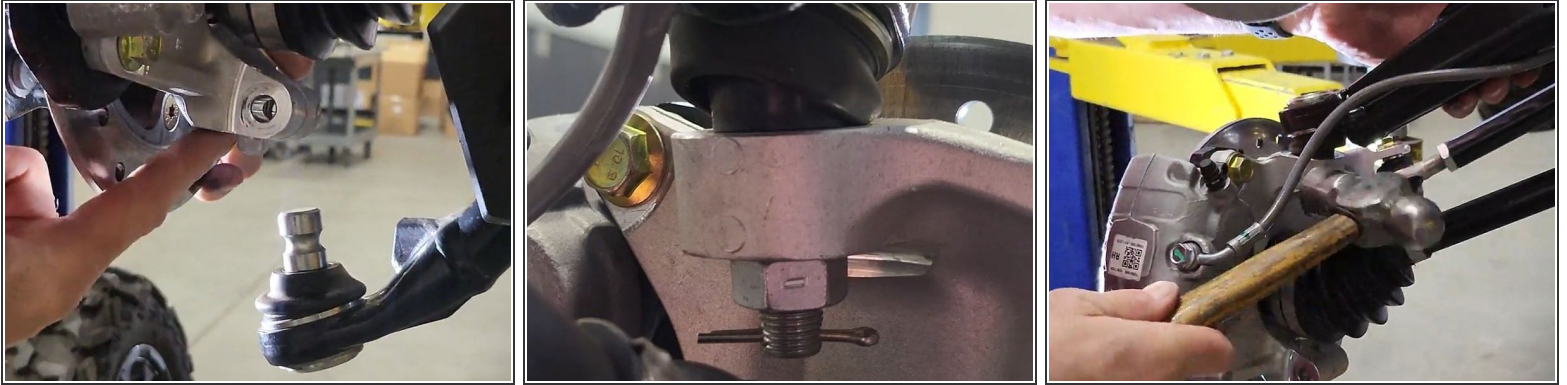
- Included instructions are guidelines only for recommended procedures and are not meant to be definitive. Installer is responsible to insure a safe and controllable vehicle after performing modifications.
- ZBROZ® recommends the use of an OE Service Manual for model/year of vehicle when disassembly and assembly of factory and related components.
- Unless otherwise specified, tighten all bolts and fasteners to standard torque specifications listed within the OE Service Manual.
- Suspension components that use rubber or urethane bushings should be tightened with the vehicle at normal ride height. This will prevent premature wear or failure of the bushing and maintain ride comfort.
- Larger tire and wheel combinations may increase leverage on suspension, steering, and related components.
- Due to payload options and initial ride height variances, the amount of lift is a base figure. Final ride height dimensions may vary in accordance to original vehicle ride height. Always measure the vehicle ride height prior to beginning installation.

## Step 3



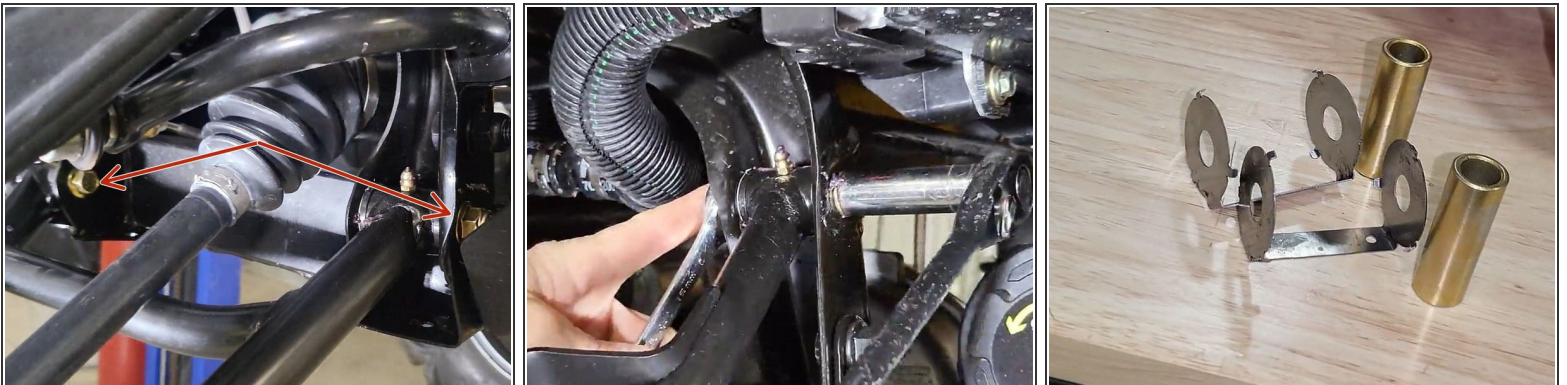
- **NOTE:** The arms shown are painted red for instructional purposes only.
- Begin by making sure you are parked on a flat surface. Using a floor jack, raise the front end of your Defender and remove the front wheels and tires.
- **IMAGE 1** Using a 10mm, remove the brake line from the upper control arm.
- **IMAGE 2** Use a 15mm end wrench and socket to remove the lower shock mount bolt.
- **IMAGE 3** Use your 15mm to remove the sway bar mount.
- ⓘ **NOTE:** It is not necessary to remove the shock completely but it may be helpful to provide more room to work on the a arms.

## Step 4



- **IMAGE 1** Remove the lower ball joint bolt, then lift up and down on the hub assembly to allow the lower ball joint to fall free.
- **IMAGE 2** To remove the upper ball joint, first remove the cotter pin, then using a 19mm remove the nut that holds the ball joint in place.
- **IMAGE 3** In order to separate the ball joint from the steering knuckle, lift up on the upper a arm and using a hammer, tap on the steering knuckle to allow the ball joint to come free.

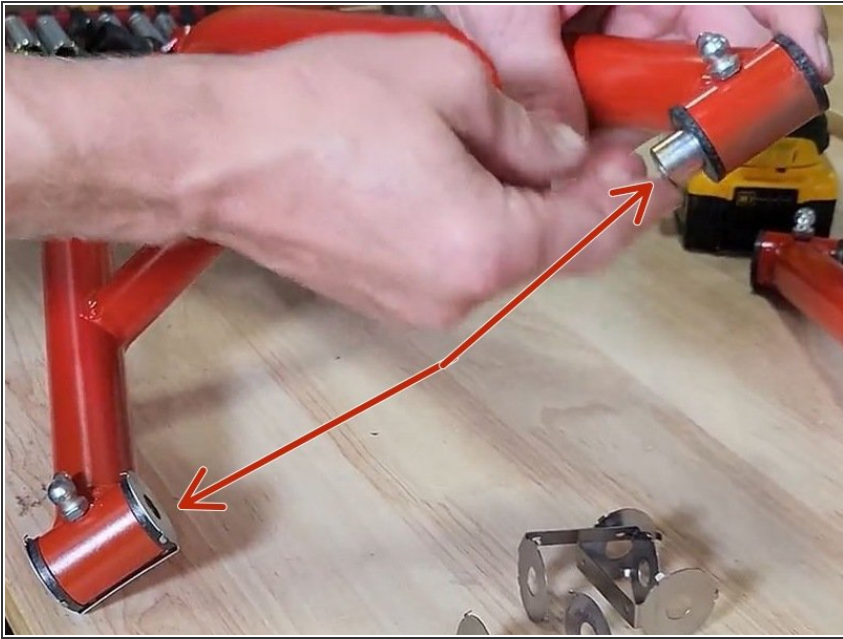
## Step 5



- **IMAGE 1** Remove the two 15mm lower a-arm bolts holding the arm to the frame.
- **IMAGE 2** Next, use your 15mm to remove the upper control arm.
- **IMAGE 3** Once those bolts are removed the a-arms should be free. Remove the OEM pivot sleeves and pivot tube brackets. These will be used in reassembly.



## Step 6



- **IMAGE 1** Place the OEM pivot sleeves and pivot tube brackets into the new ZBROZ lower a-arm pivot tubes the same way they were in the stock a-arm pivot tubes.
- **IMAGE 1** Place the OEM pivot sleeves and pivot tube brackets into the upper a arm the same way they were in the stock a arm.
- **NOTE:** The new ZBROZ arms do not come with ball joints pre installed. You may reuse your stock ball joints or you can reach out to ZBROZ for a new set of ball joints.

## Step 7



- **IMAGE 1** With all the hardware in place, begin installing the new lower arms by placing the pivot tubes into the frame mounting position and securing them with the stock nuts and bolts. Torque to factory torque specifications.
- **IMAGE 2** Install the lower ball joint back into the hub assemble and torque to factory specifications.
- **IMAGE 3** Install the new upper arm into the frame side mounting locations and secure with the proper nuts and bolts. Torque to factory specifications.

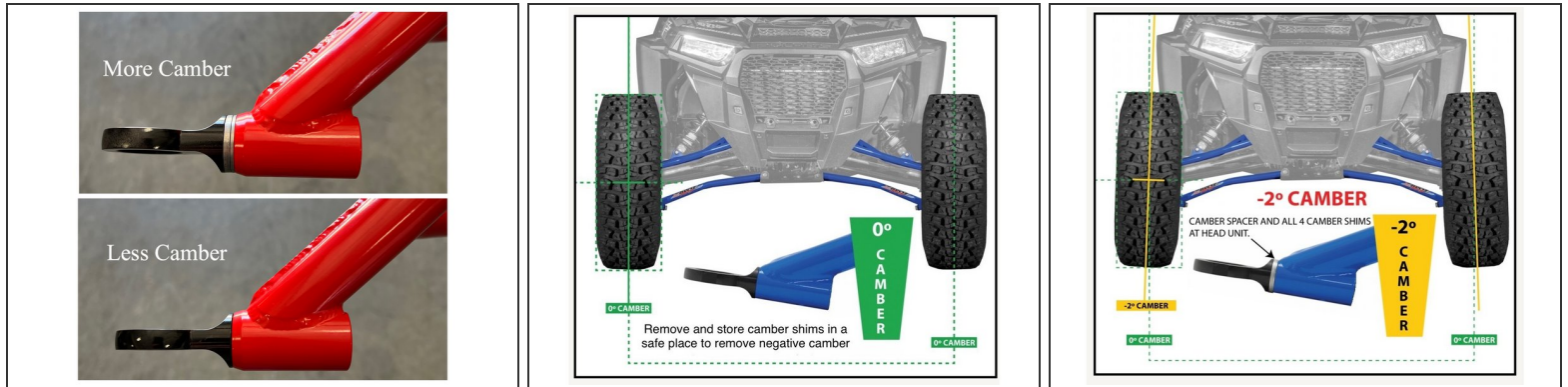
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## Step 8



- **IMAGE 1** With the upper a arm in place, install the upper ball joint into the steering knuckle and replace the nut and cotter pin. Torque to factory specifications.
- **IMAGE 2** Now that the upper a-arm is in place, attach the break line to the upper arm using the factory brake line bolt and the new provided nut.
- **IMAGE 3** After you have the break line in place, go ahead and replace the lower shock mount and sway bar mount. Torque to factory specifications.
- Repeat all the above steps on the other side, replace wheels and tires and lower the vehicle.
- Be sure to grease all pivot locations.

## Step 9



- After you complete the install it is time to set your camber. Camber can differ depending on what you as a driver likes. We prefer 0 degrees to -1 degrees of camber.
- If you need less camber, remove the shim spacers until you have the desired camber.
- If you need more camber, add shim spacers to the outside of the ball joint housing as shown in the images above.

By installing this product, you acknowledge that the suspension of this vehicle has been modified. As a result, this vehicle may handle differently than that of factory-equipped vehicles. As with any vehicle, extreme care must be used to prevent loss of control or roll-over during sharp turns or abrupt maneuvers. Always wear seat belts, and drive safely, recognizing that reduced speeds and specialized driving techniques may be required. Failure to drive this vehicle safely may result in serious injury or death. Do not drive this vehicle unless you are familiar with its unique handling characteristics and are confident of your ability to maintain control under all driving conditions. Some modifications (and combinations of modifications) are not recommended and may not be permitted in your state. Consult your owner's manual, the instructions accompanying this product, and state laws before undertaking these modifications. You are responsible for the legality and safety of the vehicle you modify using these components.