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## MCFFA-KMPRO

### Max Clearance Kawasaki Mule PRO Front Forward Arched Control Arm Kit

#### *Read before Installation*

This product is designed for use on ATVs and/or RUVs to increase ground clearance and fender clearance. Purchasers should be aware that use of this product may increase the frequency of required maintenance, part wear, and will raise the center of gravity on your ATV and/or RUV, increasing risk of roll-over, injury and death on all types of terrain. It is your responsibility to always inform other operators and passengers of this vehicle about the added risks.

High Lifter Products, products are designed to best fit users ATV/RUV under stock conditions. Adding, modifying, or fabricating any OEM or aftermarket parts will void warranty. High Lifter Products, products could interfere with other aftermarket accessories. If the user has aftermarket products on machine, contact High Lifter Products to verify that they will work together. Adding aftermarket suspension components and/or more aggressive tires can cause breakage of other OEM driveline components such as differentials, axles or drive shafts.

We recommend that wider tires and/or wheel spacers be used to achieve a wider stance and to improve stability of the ATV and/or RUV. Riders should be advised that the handling characteristics of a taller ATV and/or RUV are different and require extra care when riding, particularly on side hills or off-camber situations. If you further raise the center of gravity by adding taller tires, heavy loads to racks or seats, or by any other means, the ATV and/or RUV must be operated with even more care, at slower speeds and on relatively flat ground. All turns should be done at a slow speed, even on level ground.

Operation of an ATV and/or RUV with or without modified suspension components, while or shortly after consuming alcohol or drugs, subjects the rider to the risk of serious bodily harm or possible death. This risk is compounded if the rider does not wear an approved helmet and other safety gear. High Lifter urges that all approved safety gear be worn when riding an ATV and/or RUV as a driver or passenger.

By purchasing and installing High Lifter Products, products, user agrees that should damages occur, High Lifter Products will not be held responsible for loss of time, use, labor fees, replacement parts, or freight charges. High Lifter Products will not be held responsible for any direct, indirect, incidental, special, or consequential damages that result from any product purchased from High Lifter Products. The total liability of seller to user for all damages, losses, and causes of action, shall not exceed the total purchase price paid for the product that gives rise to the claim.

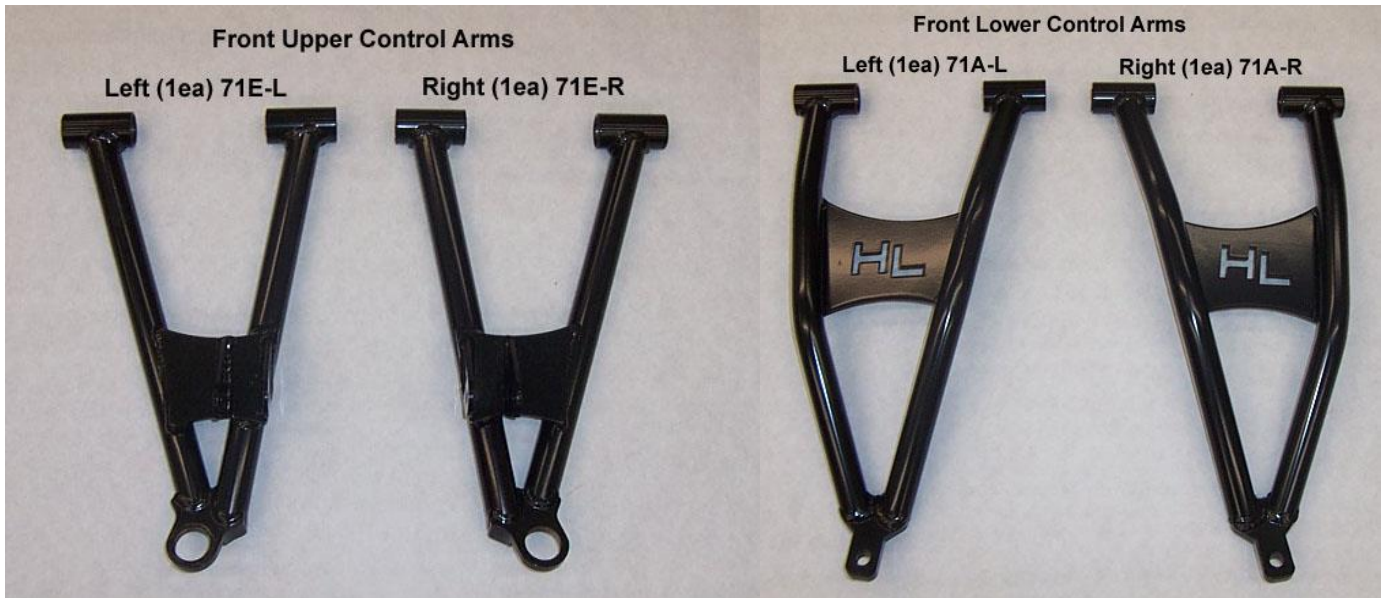
If this product is not what you expected, or is not consistent with your intended use, you should return the product immediately to the seller, before installation, for a refund of the purchase price; less any fees. After installation, product is warranted for 90 days for defects in workmanship and materials. High Lifter Products will warranty only parts provided by High Lifter Products. Any damage or problems with OEM housings, bearings, seals, or other manufacturer's products will not be covered by High Lifter Products. Parts and products will not be warranted if item was not installed properly, misused, or modified.

#### Dealers and other Installers

You are responsible for informing your customer and end user of the information contained above and the increased potential hazards of operating an ATV and/or RUV equipped with modified suspension components. If you install any suspension modifying components, it is your responsibility to also install the warning label prominently in view of the driver and in prominent view of the driver and passenger on RUVs and multi-passenger ATVs. They should also be instructed to notify anyone operating the vehicle, as well as any passengers, that said vehicle is modified.

As discussed above, it is critically important that they be instructed in the need for slower speed operation, regardless of terrain, after this lift kit is installed.

# Parts Diagram



## Installation Instructions:

1. Place jack under center of RUV front end and lift until front wheels clear the ground. Be careful to support the RUV properly so that it is securely supported but so that Control arms and shocks can droop to full extension.
2. Remove front wheels and the calipers from the hub.



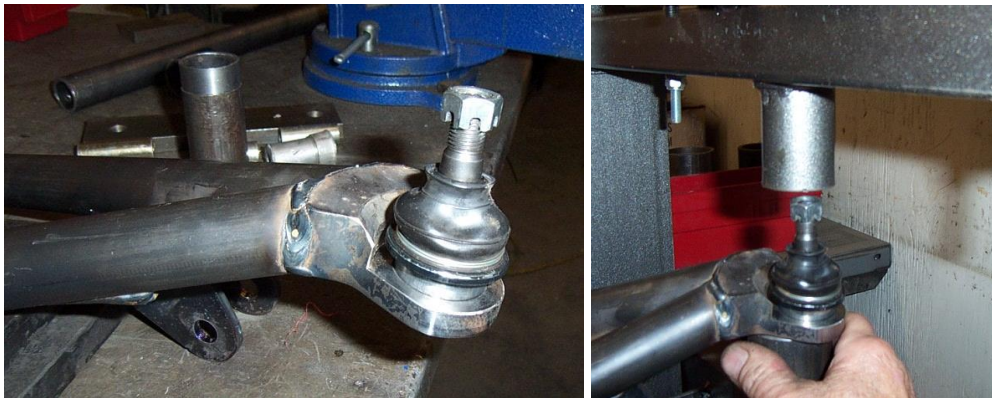
3. Remove the upper and lower control arms from the RUV. Disconnect from the frame, shock, and hub assembly.
4. Remove the bushings from all stock arms and ball joints from the upper stock arms. You will need to reuse these in the new kit.

**NOTE: You will need a press to remove the bushing and ball joints!!**





5. Now reinstall the bushings and ball joints into the new arms. If you place some grease on them it makes the installations easier. **Use a vise for the bushings and a press for the ball joints.**



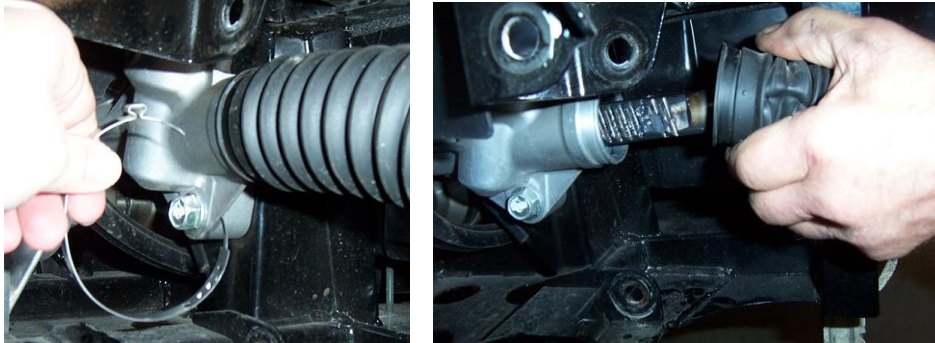
**NOTE:** A press or a vise is suggested for removing and replacing the ball joints. If you press in the ball joint crooked, **DO NOT TRY TO FORCE IT IN!** If you try to force it straight you can “egg” the opening. Press the ball joint out and reinsert it into the opening, pressing it in with a vise. Verify that the clip snaps into place after installing the ball joints into the new Control Arm. You should always double check the ball joint snap ring for proper fit. Even if you use snap ring pliers, it may not seat. You can use a flathead screwdriver and a hammer to tap the snap ring to ensure that it is seated into the groove.

6. Before you install the new control arms you need to install the four steering stops.  
7. Turn the steering wheel **OPPOSITE** the side you are working on. If you are working on the passenger side turn it all the way to the left.

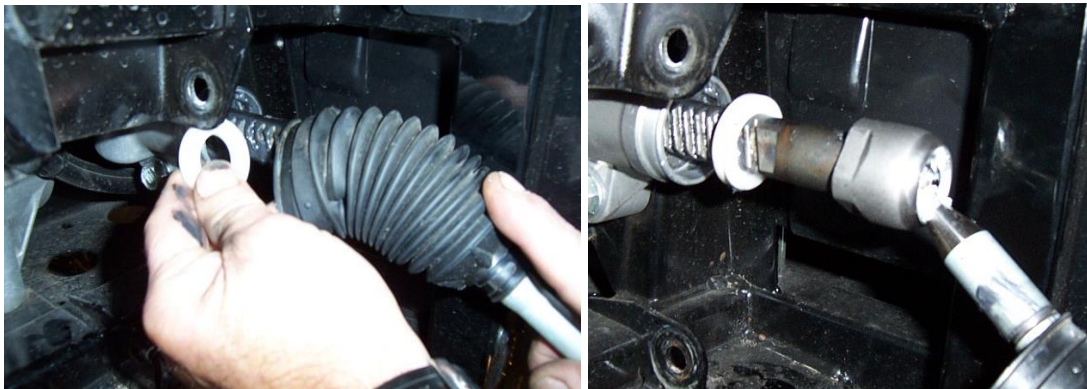
**NOTE:** In order to re-secure the boot you will need to turn the steering wheel closer to the center to give you some play in the boot.



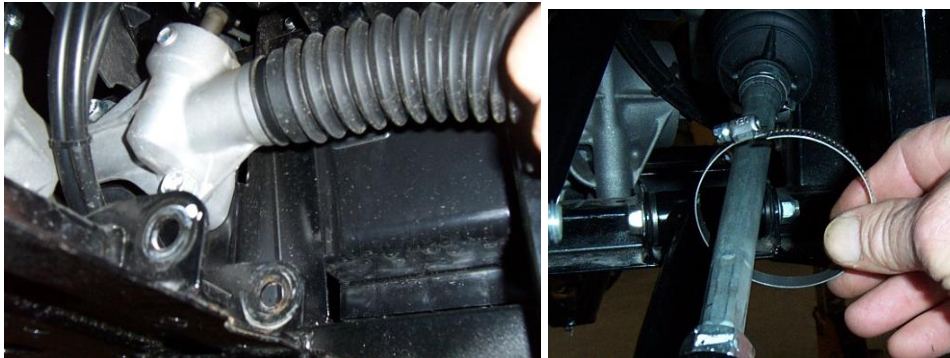
8. The boots on the rack and pinion are held on by boot bands. You will need to remove the band that secures the boots to the inside of the rack and pinion. Next pull the boot back to expose the inner tie rod joint. Leave the smaller boot clamp in place.



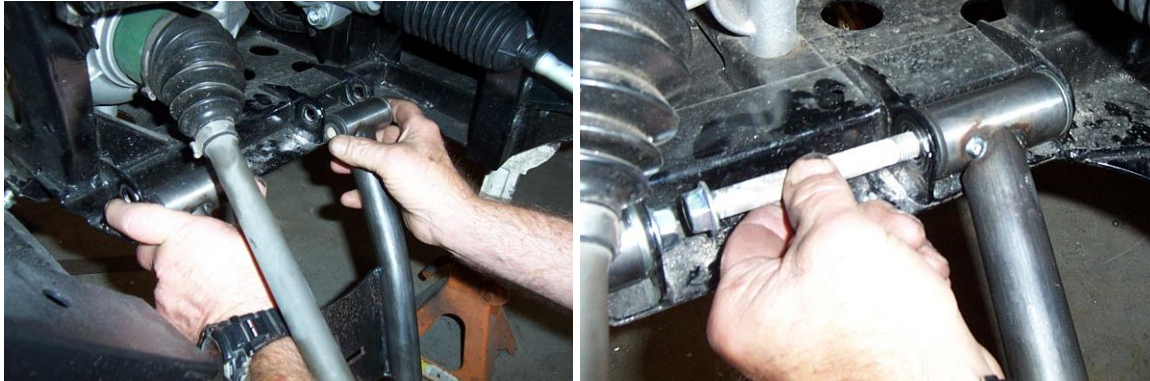
9. Place the steering stop clips between the inner tie rod joint and the rack and pinion. **You will insert one thin 55Z per side!** It is a tight fit, so you may have to force them on to ensure that the spacers stay in place.



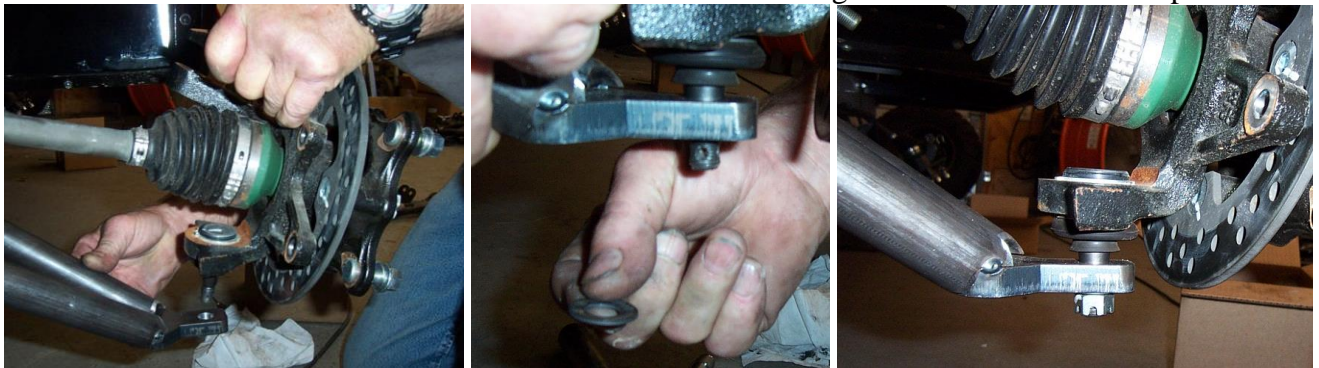
10. Pull boot back over the ball joint and steering stop. Slide replacement clamp onto the tie rod and boot. Secure the boot to the rack and pinion with clamp.



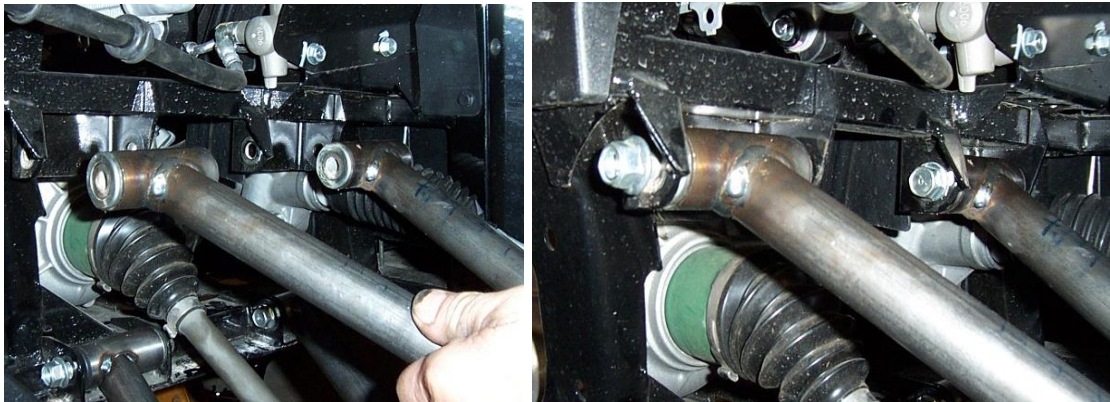
11. Use the factory nuts and bolts to connect the new control arms to the RUV frame. You will have left and right upper and lower control arms.
12. Start with the lower control arm. Reconnect it to the frame using the factory nuts, bolts, and dust caps.



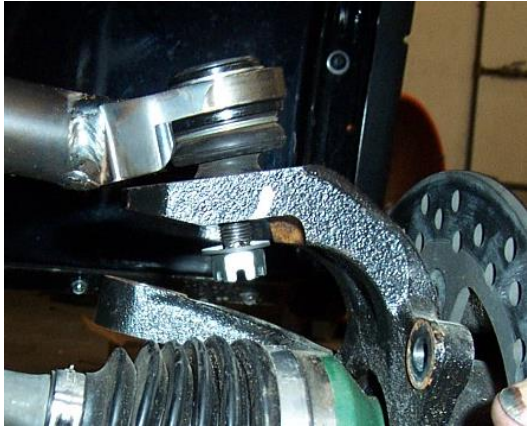
13. Connect the lower arm to the knuckle assembly. Fasten the nut tight and secure with cotter pin.



14. Now connect the upper control arm to the frame and hub assembly. Fasten the nut tight and secure with cotter pin.







15. Connect the sock to the upper control arm using the factory hardware.



16. Remove the factory tie rod end but leave the jam nut attached to the tie rod.



17. Connect the tie rod extension to the factory tie rod.



18. Included in the kit is a new heim joint and jam nut. Connect the jam nut to the heim joint. Connect the heim joint to the tie rod extension.

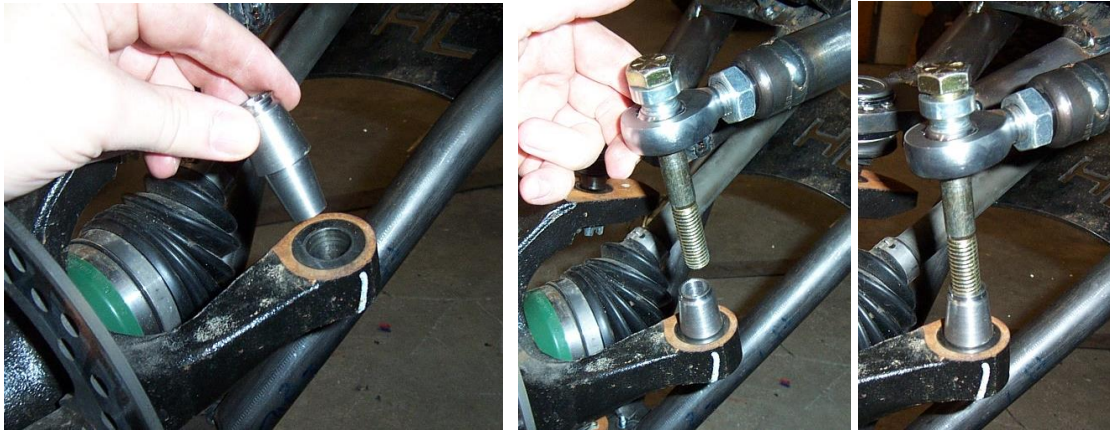


19. Included in the kit are 1/2" x 4-1/2" hex bolts, small alignment cones and large alignment cones. Place a small alignment cone onto the bolt. Next insert the bolt through the heim joint.





20. Now insert the large alignment cone into the hub assembly and then insert the bolt through the cone.



21. Place 2ea 12mm washers on the end of the bolt.



22. Secure the bolt to the knuckle assembly using the 1/2" lock nut provided.



23. Next reconnect the calipers to the hub assembly.

24. Connect the brake lines to the control arms using the zip ties provided.

25. Repeat steps for the opposite side.

26. Put wheels back on the UTV when finished and torque lugs to factory specifications.



### **High Lifter Lifetime Warranty**

From the beginning, High Lifter has engineered and manufactured some of the toughest, most durable products on the market. That's why this product comes with a Lifetime Warranty. It's our promise that High Lifter will never let you down.

- The **Lifetime Warranty** covers products sold to the original purchaser only and is not transferable. The term of the warranty is for the lifetime of the vehicle in question.
- Normal wear and tear items and finishes, such as, but not limited to: Heim joints, tie rod ends, ball joints, bearings, seals, bushings, bushing sleeves, zinc plating , powder coating, or chipping and discoloration of any finish is not covered.
- High Lifter will ship the replacement product after the returned product has been inspected by High Lifter staff.
- The warranty shall not include claims for damages, installation time or labor charges, economic losses, inconvenience, transportation, towing, down time, direct or indirect or consequential damages or delay resulting from any defect.
- The warranty does not apply to products that have been improperly applied or improperly installed.

### **Making a warranty claim**

1. All claims must be accompanied by the part and the original sales receipt or other acceptable proof of purchase from the original owner.
2. All warranties must be accompanied with a Return Merchandise Authorization (RMA) number. (Contact High Lifter at 318-524-2270 or 800-699-0947 for an RMA number)
3. When shipping the damaged product:
  - a. Write the RMA number on the outside of the box.
  - b. Also include the RMA number, proof of purchase and any notes inside the box.
  - c. Please keep your tracking number and shipment information.
4. The customer is responsible for shipping the product to High Lifter--return shipping within the lower 48 states will be paid by High Lifter products. With all warranty claims, only standard shipping services apply.
5. High Lifter will process your order within 24 business hours of receiving the returned item.
6. **Ship to:** High Lifter Products, 780 Professional Drive North, Shreveport, Louisiana 71105