



## Upper or Lower Rear Control Arms

06282010

Thank you for purchasing the ALTA Performance end links. Installation of this kit should only be performed by persons experienced in the installation and proper operation of MINI Cooper Suspension systems.

### **SPECIAL NOTES:**

- A 4-wheel alignment is necessary after installation of the ALTA rear control arms.
- It is critical that all bolts and nuts are tightened, improper tightening can cause serious injury or death.
- The control arms can either replace the OEM top or bottom control arms. We recommend installing them on the lower first. If installed on the upper control arms, and you have HID headlights, you will need to connect headlight adjusting rod to control arm. This can be secured by using zipties to hold bracket onto arm.

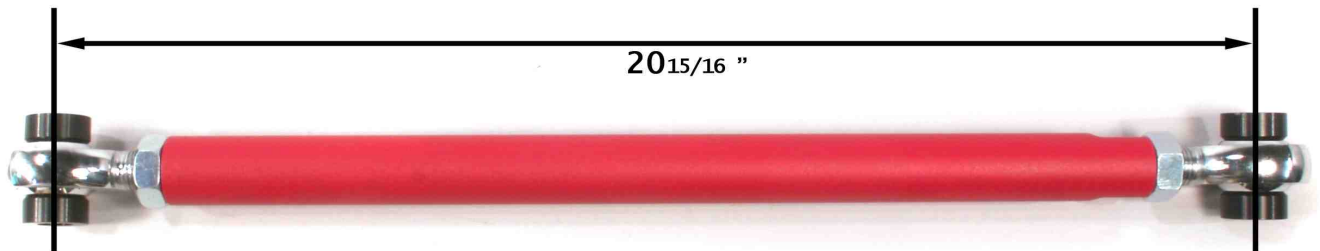
### **Parts Included with the ALTA control arms:**

- (2) Aluminum radius rods
- (2) Right hand threaded rod ends and nuts
- (2) Left hand threaded rod ends and nuts
- (8) Rod end spacers

Checked By \_\_\_\_\_

### **CONTROL ARM INSTRUCTIONS:**

- 1) Raise vehicle onto jack stands or use commercial vehicle hoist. NOTE: NEVER WORK ON A VEHICLE SOLELY SUPPORTED BY A JACK!
- 2) Starting on one side of the vehicle, loosen and remove inner and outer bolts holding control arm to chassis. The inner bolts/nuts, are behind aluminum heat shield. Some bending of heat shield maybe necessary. Remove OEM control arm.
- 3) Adjust control arm to same length as original. Do this as accurate as possible to eliminate unnecessary tire wear while driving to alignment shop.
- 4) Tighten nuts, once arms adjusted to the proper length. Make sure rod ends are facing the same direction before tightening nuts. Tighten nuts to 100ft-lbs
- 5) Install supplied spacers into rod ends. Install control arm into chassis, and use OEM nuts and bolts to secure. Tighten to factory torque specs.
- 6) Repeat steps 2) through 6) on opposite side.
- 7) Double check tightness of all hardware and connections.
- 8) Lower vehicle from jack stands, and test drive. Listen for abnormal noises. If none are found,drive straight to alignment shop. If noises are present recheck that all hardware is tighten down.



**SPECIAL NOTES ABOUT THIS PRODUCT:** Many modifications (and combinations of modifications) are not recommended and may NOT be permitted in your country, state or other form of local government. Consult your owner's manual, instructions for each product and all laws before undertaking these modifications. The owner and user are solely responsible for the legality and safety of the vehicle you modify using these components! ALTA and PERRIN Performance are not responsible for any physical or financial damages as result of proper or improper installation, usage or ownership of this product.

Use of this suspension product will result in a change in the handling characteristics of your vehicle. As with ANY vehicle, extreme care must be taken to prevent loss of control or roll-over during all driving 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! Once installed do NOT drive the vehicle unless you are familiar with its unique handling characteristic and confident in your ability to maintain control under all driving conditions.

Questions? Please contact us prior to proceeding with installation or use. Contact information is located on this page.

**PARTS TO GO WITH YOUR MINI CONTROL ARMS:**

- *Second set of ALTA Control arms for replacing upper control arms.*
- *ALTA 19mm, or 22mm 3 setting rear sway bar.*
- *ALTA PSRS front control arm bushing replacement.*

***For questions & comments please contact***

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***AIM contact ALTAPERRINSALES***