



Rally Style Lamp Kit Cooper S Models

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Thank you for purchasing this ALTA product for your car! Installation of this product should only be performed by persons experienced with installation of aftermarket performance parts and proper operation of high performance vehicles. If vehicle needs to be raised off the ground for installation, the installer must use proper jacks, jack-stands and/or a professional vehicle hoist for safety of the installer and to protect property. If the vehicle is lifted improperly, serious injury or death may occur! Please read through all instructions before performing any portion of installation. If you have any questions, please contact our tech department prior to starting installation. We can be reached in any of the following methods:

Email Tech@ALTApformance.com

Instant Chat off the main page of www.ALTAperformance.com

Or simply call our tech team at 503-693-1702

SPECIAL NOTES:

- Use of the factory service manual can be very helpful during the installation. These can be purchased at the dealership or online. <http://www.realoem.com> has diagrams for the entire car, which can also be helpful.
- This installation will require cutting and drilling into both bumper beam and bumper skin. Test fit all components prior to cutting and drilling. ALTA performance is not responsible for repairs from mis-installation.
- The light bar is adjustable up and down, and left to right. **Ensure the bar is mounted low enough to clear the bumper, but not too low as to cause an interference.**

Parts Included with the ALTA Rally Light Bar:

- (1) Set of Left and Right Mounting Struts
- (1) Horizontal ALTA Mounting Bar
- (4) 5/16-18x2.75" Grade 8 Hex bolts
- (8) 5/16 Flat Washer
- (4) 5/16 Lock Washer
- (4) 5/16-18 Grade 8 Nut
- (2) 7/16-20x.750" Black Oxided SS hex bolt
- (6) 7/16 Black Oxide Washers
- (2) Lamp kits (optional)

Preparation:

- 1) Loosely mount lamps supplied with kit or those purchased separately to horizontal mounting beam with 'ALTA' logo facing forward and readable from the front of the vehicle.
- 2) Using lamp assembly as a guide, mark holes in lower grill where "L" brackets will come through. NOTE: Check clearance from all facets of lamps, beam etc. prior to final determination of holes! **Light bar should be mounted as low as possible to ensure light do not hit upper portion of bumper.** These holes will need to be approximately 1" in diameter and 16.5" apart from centerline of each hole. Take time with aligning light bar assembly to bumper beam, this will pay off for final installation.



Diagram shows completely assembled ALTA light bar from behind



Horizontal Mounting Beam, and Struts shown above

Installation:

- 1) Open hood and prepare to remove bumper cover. Locate and remove plastic connectors and screws under lower portion of bumper. Locate and remove (2) torx screws at the top of the bump on each corner. Remove 8mm bolts behind side markers inside of wheel well area. (See factory service manual for specific bumper skin removal instructions.)
- 2) Slide bumper skin off a few inches to allow enough room to unplug side marker lights and fog lights.
- 3) Place bumper skin on ground making sure to put something protective between it and the ground.
- 4) Remove (10) bolts and nuts securing bumper beam to chassis.
- 5) Set beam back into bumper skin. Place 'L' brackets on bumper beam, and through holes in bumper skin.
- 6) Align struts centered with bumper beam and make sure they are 16.5" apart. Mark (4) holes to be drilled with sharpie. Typically holes will be 3-3/8" and 5-1/4" from top of beam. This is not super important to be perfect, but make sure its close to these dimensions.
- 7) Separate bumper skin from bumper beam and drill (4) 7/16" holes (marked in step 4) completely through both sides of the bumper beam. NOTE: There is an extrusion running close to lower drilled hole. Make sure that if you run into this, you move the hole up to clear it.
- 8) Using supplied hardware mount each 'L' bracket to bumper beam. (See picture below)



Struts shown bolted to back side of bumper beam after aligning with bumper cover



Bumper beam and struts in place and ready for bumper skin

- 9) Re-connect bumper skin to bumper beam.
- 10) Temporarily mount horizontal beam with lamps to 'L' brackets and bumper assembly to final check all clearances. Once satisfied tighten all mounting hardware. Re-install bumper beam to chassis.
- 11) Follow wiring instructions included with lamp kit and bring wiring to desired location behind bumper area.
- 12) With the help of an assistant connect wiring to lamps and re-attach bumper/lamp assembly to vehicle. Use care not to pinch or damage wiring during this process as this can cause a short in the wiring.
- 13) Using supplied cable ties secure all wiring away from moving parts etc.
- 14) Install bumper skin back to car making sure to plug in fog lights and side markers. Reinstall all fasteners removed in previous steps.
- 15) Install light bar to mounts. You may find that the mounts do not line up perfectly with light bar. If this is the case, using an adjustable wrench, twist each leg slightly until it fits. This will not damage the parts. NOTE: Included with each kit are an assortment of washers that can be used to space bar away from car if necessary.
- 16) Loosen lamp mounts and aim lamps per lamp manufacturers instructions.
- 17) Double check all connections and mounting hardware prior to proceeding. This may involve removing light bar.
- 18) **Clearance of light with bumper is important to avoid damage to paint, if lights are mounted too high they will hit the bumper. To lower lights, simply drill new holes or oval out existing holes.**

Questions, Comments and Suggestions Contact: Tech@ALTAperformance.com
Visit Our Website for Instant Chat Options at <http://www.ALTAperformance.com>
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