



Rally Lamp Kit Cooper S Models

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Thank you for purchasing the ALTA Performance Rally Lamp Kit. Installation of this kit should only be performed by persons experienced in the installation and proper operation of MINI Cooper body and electrical systems. Please read through all installation instructions before performing installation.

ADDITIONAL NOTE: USE OF THIS LAMP SYSTEM ON PUBLIC STREETS AND HIGHWAYS MAY BE ILLEGAL IN YOUR AREA. CHECK LOCAL LAWS PRIOR TO INSTALLATION AND USE IN ANY SITUATION.

SPECAIL NOTES:

- Use of the factory service manual, can be very helpful during the installation. These can be purchased as 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.**

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 Washers
- (2) IPF 968cs lamp kit (optional)

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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 bumper skin where "L" brackets 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 approx. 3/4" in diameter and exactly 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.



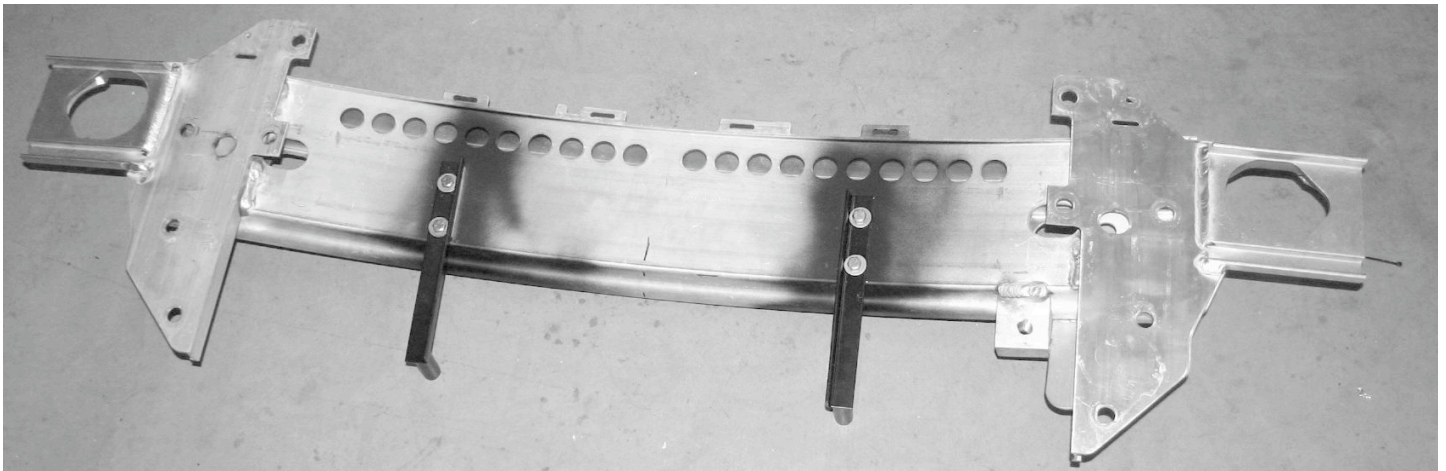
Diagram shows completely assembled ALTA light bar from behind



Horizontal Mounting Beam, and Struts shown above

Installation:

- 1) Remove bumper cover. Locate lower pop-it connectors, screws at the top of bumper cover, and screws behind side markers. (See factory service manual for specific bumper skin removal instructions.)
- 2) Remove beam and set beam back into bumper skin. (See factory service manual for specific bumper beam removal instructions.)
- 3) Using holes made in bumper skin, place 'L' brackets on bumper beam, and through holes in bumper skin.
- 4) Mark (4) holes to be drilled through bumper beam. Separate bumper skin from bumper beam.
- 5) Drill (4) 7/16" holes (marked in step 4) completely through both sides of the bumper beam.
- 6) 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

- 7) Re-connect bumper skin to bumper beam.
- 8) 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.
- 9) Follow wiring instructions included with lamp kit and bring wiring to desired location behind bumper area.
- 10) 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.
- 11) Using supplied cable ties secure all wiring away from moving parts etc.
- 12) Double check all connections and mounting hardware prior to proceeding.
- 13) Loosen lamp mounts and aim lamps per lamp manufacturers instructions.
- 14) ***Clearance of light with bumper is important to avoid damage to paint, if lights are mounted to high they will hit the bumper. To lower lights, simply drill new holes or oval out existing holes.***

PARTS TO GO WITH YOUR Rally Lamp Kit:

- ***ALTA Shorty or Super Shorty Antenna***
- ***ALTA Version 2.0 15%, 17%, or 19% reduction Supercharger pulley.***
- ***ALTA 2.5" or 3" Catback exhaust.***

For questions & comments please contact

TECH@ALTAMINIPERFORMANCE.COM

503-222-MINI

AIM contacts SALESALTA and ALTAPERRIN