



## Maserati Technical Bulletin

Date: July 29, 2019  
Bulletin Number: MAS001935 – MTB -1914 /A  
Recall 387 – LED Headlight Adjustment  
Supersedes: N/A  
Section: Compliance

MASERATI

**Model Type:** Levante (M161)

**Model Year:** 2019

**Subject:** Vehicle Safety Recall Campaign 387, LED Headlight Adjustment

**NOTE: Some vehicles above may have been identified as not involved in this recall and therefore have been excluded from this recall.**

**NOTE: Before starting this procedure, you MUST read these instructions carefully and completely.**

### MASERATI SAFETY RECALL NOTIFICATION

**PERFORM THE PROCEDURE OUTLINED IN THIS TECHNICAL BULLETIN ON ALL AFFECTED VEHICLES BEFORE CUSTOMER DELIVERY OR THE NEXT TIME THE CAR IS IN THE SHOP FOR MAINTENANCE OR REPAIRS.**

Maserati dealers must ensure recalls are completed after having been notified by Maserati North America, Inc. (MNA) that a safety-related defect or noncompliance exists in any motor vehicle or item of replacement equipment in the dealer's possession at the time of notification. In MNA's case, this notification would typically be made by the issuance of a recall notification in the form of a Technical Bulletin.

Some of the involved vehicles may be in dealer new vehicle inventory. The National Traffic and Motor Vehicle Safety Act of 1966, as amended (or in the case of Canadian vehicles, Motor Vehicle Safety Act S.C. 1993, as amended), requires you to complete this recall service on these vehicles before retail delivery. This means that dealers cannot legally deliver new motor vehicles or new items of replacement equipment to consumers with an open recall.

Dealers should also consider this requirement to apply to used vehicle inventory and should perform this recall on vehicles in for service. This also pertains to vehicles in the Certified Pre-Owned program, and to items of replacement equipment.

Finally, MNA dealers should not sell or use parts that have been recalled by MNA. Please follow the specific instructions provided by MNA on the return or disposition of the parts.

## **Description of Vehicle Safety Recall 387**

Maserati S.p.A., MNA and MC have determined that the above described vehicles equipped with the optional full LED headlights with Adaptive Front Lighting System ("AFLS") did not have the AFLS properly adjusted during the vehicle assembly process. Headlights adjusted above the maximum gradient allowed may impair the vision of drivers of other vehicles, and can cause a vehicle crash without prior warning. Out of an abundance of caution, Maserati has decided to initiate this Voluntary Safety Recall #387 to adjust the AFLS properly (Fig.1).



Fig.1

**This repair procedure will be performed free of charge to the customer.**

## Which Vehicles Are Affected

Please refer to the VIN List in ModisCS+ for the affected vehicles in the U.S. and Canada.

## Vehicle Remedy Information

1. Check that the vehicle is included in this Recall Campaign, and that the repair has not been previously performed.
2. Perform the adjustment procedures to the "AFLS" LED Headlights as shown below and in Section 8.30.002.40 of the Workshop Manual.
3. The recall procedure is now complete.

## Parts Needed For The Recall

No parts are required for this Recall Campaign.

**IMPORTANT NOTES:** Before beginning the headlight adjustment procedures, ensure the Headlight alignment tool p/n: 900000527 has been set up and registered on line as explained in Maserati Tech Tips 92.

Ensure the calibration date is set correctly on the tool by referring to MAS001600 (MCL 18-01) and MAS001638 (MCL 18-08).

When setting the tool up for use, refer to MAS001810 (MCL 19-07) for clarification on the inclination adjustment.

## OPERATING PROCEDURES

### Test area floor

1. The slope of the test area floor (longitudinally as well as laterally) may not exceed 1%.
2. The maximum accepted unevenness of the test area is 2mm/m.

### Vehicle preparation

- ❗ First check proper operation of the lamps and turn indicators.  
Make sure that headlight mounts are not broken and that headlight surface is free of any cracks.
  - ❗ Position the vehicle on a level surface .
  - ❗ Using suitable products, clean headlight surface .
  - ❗ Standard "AERO 1": it corresponds to vehicle in "Wheel alignment mode". Launch the "Wheel alignment mode" from MD by selecting the SPECIFIC FUNCTION OF DASM, or enter it in the MTC+.
3. The car must be in this condition: Standard "AERO 1"
  4. Perform a pressure check on the tires and, if necessary, inflate them to the correct pressure for Full load condition **[Front - Rear 2.6 bar (38 psi) ]**.
  5. Straighten wheels and set the steering wheel straight.

## Tool positioning

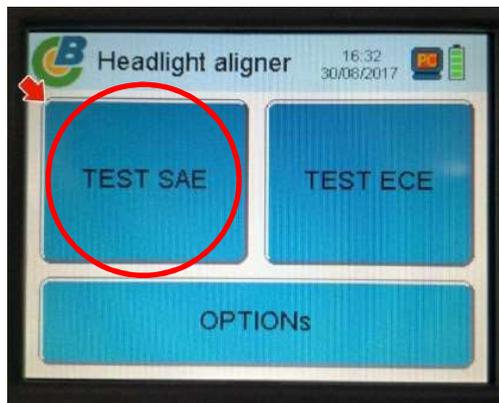
 The images shown here are for illustrative purposes only.

- ✘ The headlight adjustment tool **90000527**, must be positioned at a distance ranging between 30 - 50 cm from headlight as figured .

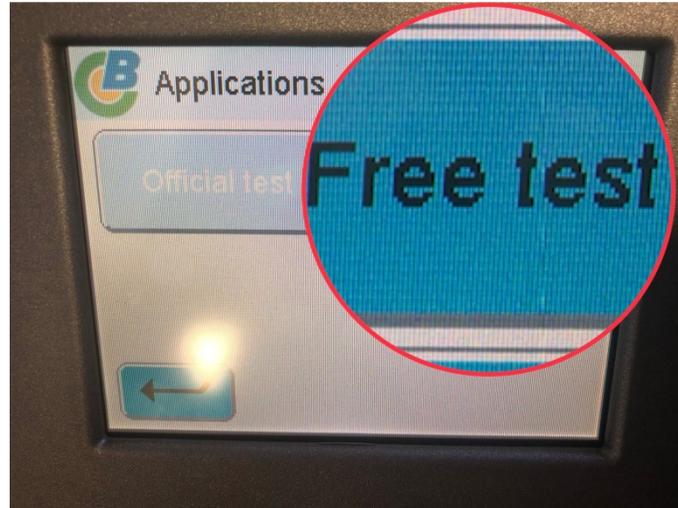


## Adjustment

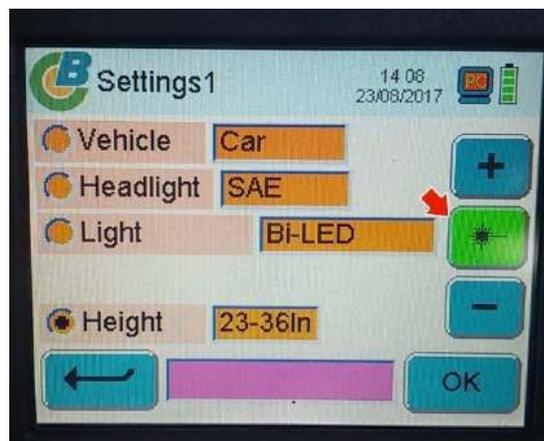
- Select TEST SAE.



8 Select the option “Free Test”.



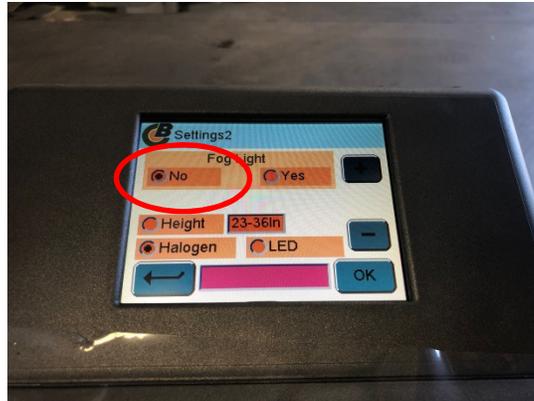
9. Set the parameters as shown in the picture below, then switch-on the laser as indicated



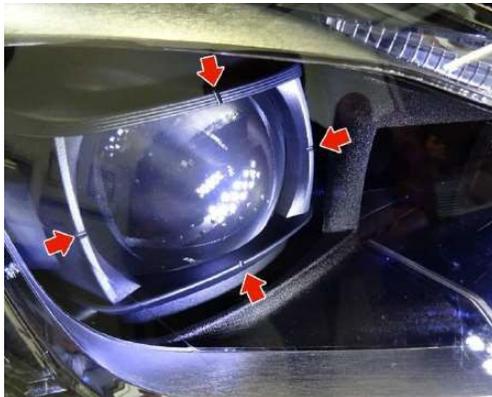
Use the buttons +/- to change the parameters value.

**\*Note SAE requires measurement in standard unit. Conversion from metric units may be required.**

10. Select the option **"NO"** in the screen concerning the **"Fog lights"**.



11. Find the center of the headlamp by moving the trolley.



12. A laser cross is projected onto the headlamp for centering.



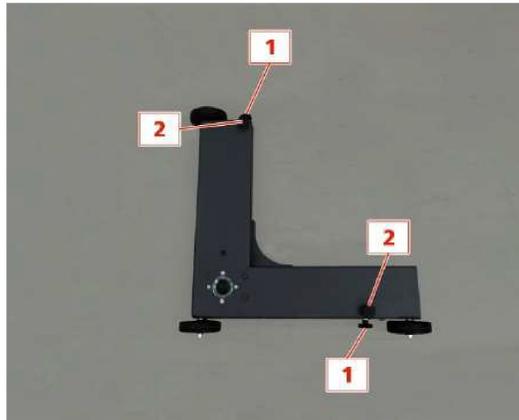
13. After adjusting the height of the tool so it's centered in the headlight, make note of the measurement on the scale.



14. Using the level on the tool, perform the levelling.



15. If not correctly levelled, perform the tool adjustment by using the height-adjustable wheels. Slightly loosen the 2 wheel knobs (1). Adjust the level of the tool by turning the 2 adjusting knobs (2). Check the spirit level and, when the bubble is levelled, tighten the wheel knobs (1).



16. Switch-on the alignment laser and search for two symmetrical parts at the front area of the vehicle.



17. Turn the plug with the light box, until the line projected by the alignment laser on the engine bay perfectly matches the two symmetrical reference points.

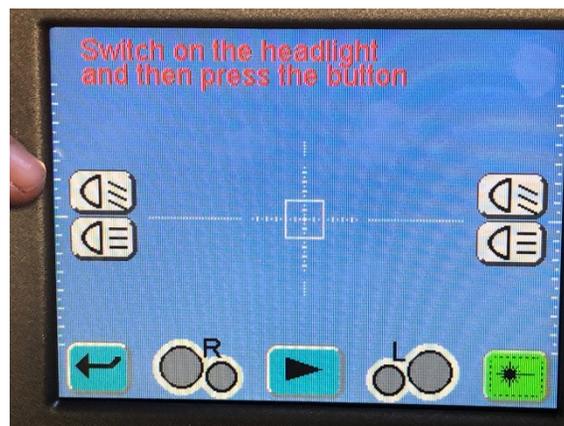


18. For example 2 symmetrical screws in the engine bay on the right and left sides as shown below.

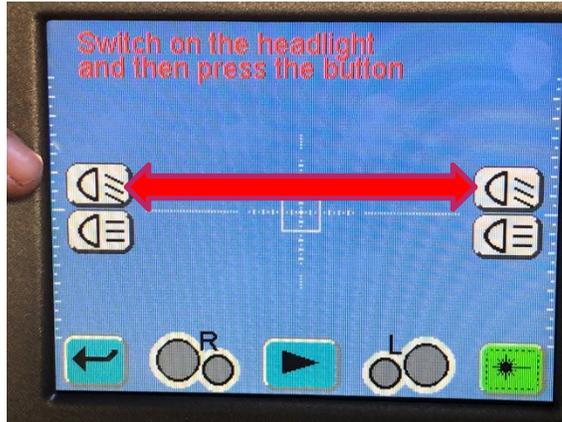


19. Verify that the laser cross is still in the center of the headlamp, if not reposition the laser cross into the center of the headlamp.

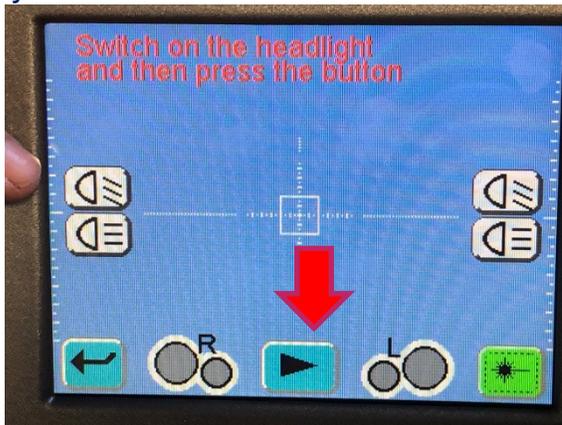
-  The selection keys for the headlamps to be tested are always in the driving direction of the vehicle. This means that the selection keys are laterally reversed in the settings mode. The labelling of the headlamps (left and right) do not change.
-  After entering the vehicle settings, the screen for the selection of the headlamp to be tested appears.



20. Click onto the symbol for the low beam headlamp to be tested (left or right).



21. Switch on the low beams of the vehicle, then press the start measurement symbol as shown below to start the test.



22. The screen shows the status of the headlamp: outside top tolerance, outside bottom tolerance. ►, outside right tolerance. ◀ outside left tolerance



23. A red dot indicates that the headlamp is not centered correctly. Your goal is to aim the beam into the dotted square displayed on the screen.



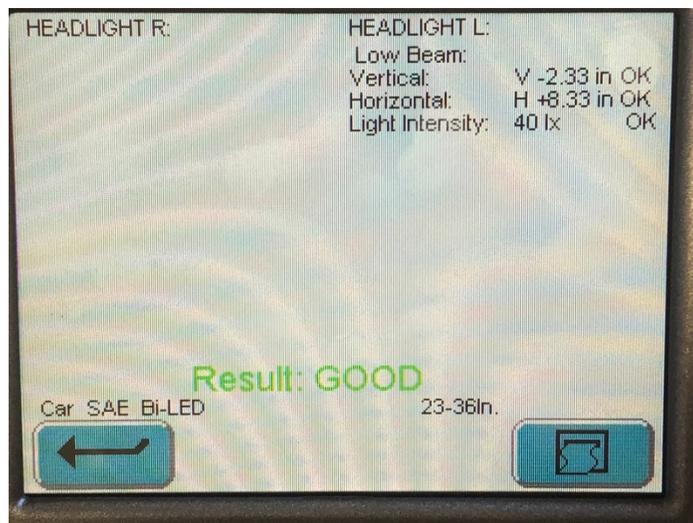
24. The screw positions to adjust the headlights are depicted below.



25. Using the vertical and horizontal adjustment screws. Adjust beam until dot enters the dotted square depicted on the screen. Correct adjustment is indicated by a green dot as seen below.



26. When adjustment is complete confirm by pressing the "SAVE" button.



27. Repeat procedure on the opposite headlight to be adjusted.

28. Ensure to printout results and attach results provided by beam setter to the repair order.

## Entering A Warranty Claim

### Warranty Information:

- Campaign Number.....387
- Cost Code.....24
- Defect Code.....063
- Component code.....8.30.002
- Labor Operation Code.....8.30.002.9 (0.55h)