

Headlight Adjustment

Instructions Using the VAS 5107 Hella Universal Beamsetter IV



Overview

- Vehicle must be on a flat surface (ISO 10640)
- Adjust tire pressure to specifications. Specifications are found inside the gas flap or "B" pillar.
- Compensate for the weight of the fuel in the tank. The setting must be the equivalent of a full tank. See VESIS for more information.
- Have a technician sit in the driver's seat, or add equivalent weight.
- Bounce the front and rear of the vehicle to settle the suspension.
- See VESIS and the Instructional Manual for the Hella Beamsetter Series IV for further information.

Beamsetter Set-Up For the Low Beam

1. Position the Beamsetter in front of the headlight no less than 12 in. and no more than 28 in. from the light.



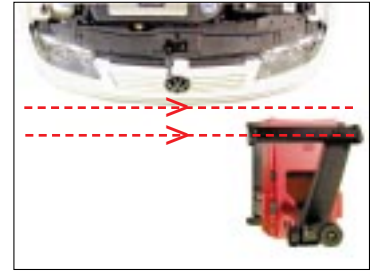
2. Set the inclination % to 0.7% by turning the dial at the back of the box. The % indicated in the molding of the headlight is for Europe ONLY.



3. Align the Beamsetter box so it is centered on the **low beam** light bulb. Use the arrows molded vertically and laterally on the Beamsetter box to ensure the alignment is within 1.2 in.



4. Align the Beamsetter box parallel to the front of the vehicle (Steps 4a–4d). **NOTE: This is the most critical step in the entire set-up procedure.**



4a. Place a straightedge across the front of the vehicle so that it aligns with two similar points on either side (fender bolts, headlight bolts, etc.).



4b. Slide the Broadband Sight towards the center of the vehicle.



4c. Loosen the handwheel that locks the column, allowing the Beamsetter box to rotate.



4d. Sighting down through the slit in the Broadband, slowly rotate the box on the column until the straightedge is **PERFECTLY** in line and parallel with the slit in the Broadband. Once the visual alignment is perfect, carefully lock the column wheel in place.



Incorrect visual alignment—ruler edge appears at an angle



Correct visual alignment—ruler edge appears perfectly straight

NOTE: This alignment has a critical influence on the screen image positioning about to take place, and if not performed exactly, will result in an incorrect headlight aim.

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Adjusting the Headlight

5. Turn on the headlights to the low beam position. Look at the image shown in the Beamsetter. Based on the vehicle type, an image similar to the examples shown below should align in relation to the target indicator.



6. Align the vertical and horizontal position of the headlight utilizing the headlight setting screws to match the corresponding left and right beam images. Beam images for each vehicle type are shown below.

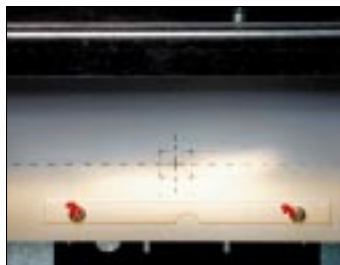
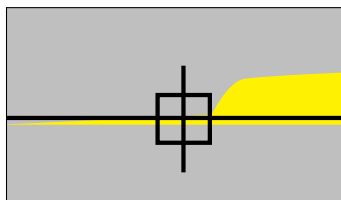


7. Repeat the entire Beamsetter set-up procedure to adjust the other headlight.

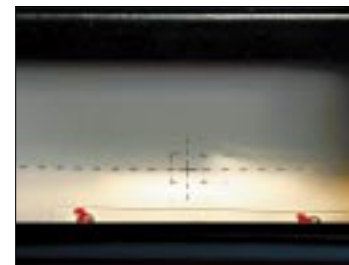
NOTE: DO NOT roll the Beamsetter across to the other headlight and assume the settings remain accurate. The settings DO NOT remain accurate. You must fully repeat the Beamsetter Set-Up procedure for left and right lamps (steps 1-4d).

Recommended Beamsetter Images

NOTE: When viewing any image from left to right, the image should "step up" just to the right edge of the target box.



Jetta A4, left view



Jetta A4, right view



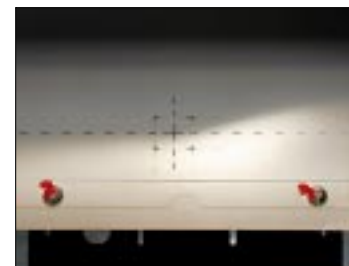
New Beetle, left view



New Beetle, right view



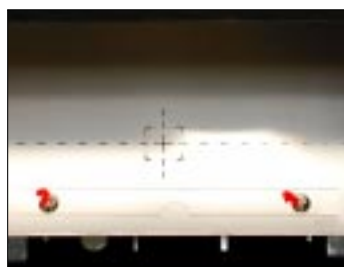
Passat B5, left view



Passat B5, right view



Golf A4, Cabrio left view



Golf A4, Cabrio right view



Eurovan T4, left view



Eurovan T4, right view