



Headlamp Adjustment With "Asymmetrical Dimming Light"

E
222

AUTOMOBIL- UND MOTOREN-WERKE
BREMEN - GERMANY

Bremen, Germany, November 1st, 1957

To our
Authorized Borgward Dealers and Workshops

Gentlemen:

Vehicles of our types "Isabella de Luxe", "Isabella Coupé" and "Hansa 2400 Pullman" are recently equipped with headlamps of a new type with asymmetrical dimming lights.

This is standard equipment

from serial number 1 118 551 (Isabella de Luxe)
346 521 (Isabella Coupé)
295 510 (Hansa 2400 P)

The adjustment of the headlamps must be made according to fixed instructions as follows:

1. Preparation of an adjusting wall

Mark on the adjusting wall in height of the center of headlamps (H - car loaded with four passengers) a horizontal line and in the headlamp distance (from center to center) a vertical line each. Mark an interrupted line in a 2 inch (5 cm) distance underneath the horizontal line. Mark a line on the floor in the center between the resulting adjusting cross vertical to the adjusting wall and fix a distance of 16.4 feet (5 metres).

2. Adjustment of vehicle

During the setting up of the car and adjustment of the headlamps the car must be loaded with four passengers.

The car must then be adjusted toward the adjusting wall so that its longitudinal axis is in the elongation of the marked center line, whereby the headlamps are in the height of the 16.4 feet (5 metres) mark.

3. Adjustment of headlamps

Headlamps are separately adjusted with switched on dimming light only, the second headlamp must be covered in each case.

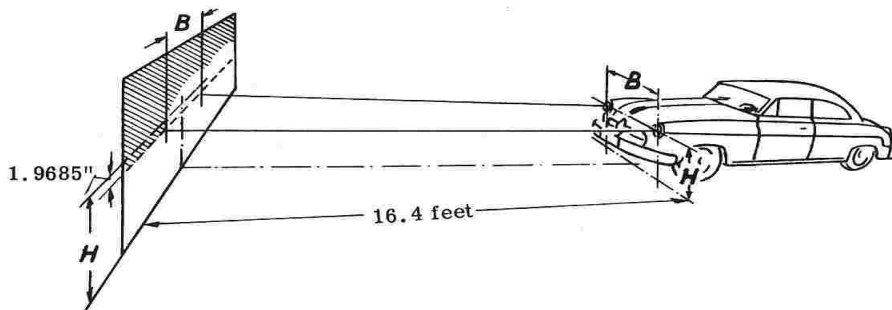
In case of headlamps with asymmetrical dimming light the border line between dark and light areas takes a course left hand horizontally and ascends from the center to right hand upward in an angle of approx. 15 degrees.

a) Vertical adjustment

The vertical adjustment is made according to the horizontal part of the border line between dark and light areas. The adjustment is correct when the border line between dark and light areas covers itself with the interrupted line.
(Headlamp-inclination with dimming light = $50 \text{ mm} / 5 \text{ m}$ (1.9685" / 16.4 feet $\approx 1 \%$).

b) Horizontal adjustment

Adjust headlamps in lateral direction so that the buckling of the border line between dark and light areas is on the vertical line of the corresponding adjusting cross.



4. The adjustment of the headlamps can be made quicker and easier with a headlamp adjustment apparatus for asymmetrical dimming light.

The Service Dept. will make you proposals upon request.

Summary :

Observe special instructions for headlamps in case of vehicles equipped with asymmetrical dimming lights.

Isabella de Luxe from Serial No. 1 118 551

Isabella Coupé from Serial No. 346 521

and Hansa 2400 P from Serial No. 295 510

Yours very truly,

CARL F.W. BORGWARD G.M.B.H.

**KUNDENDIENST
(CUSTOMERS SERVICE)
DEPT.**

signed Grimberg

signed Wolff