



## Headlamp Conversion

### Conversion from asymmetrical to symmetrical illumination of the road.

If drivers want to drive in a country where the traffic flow changes (right-hand traffic  $\leftrightarrow$  left-hand traffic) it is necessary to convert the vehicle headlamps accordingly. In this case, the conversion of 90 mm xenon/halogen modules shall be used as an example (Fig. 1: Golf 4).

With the xenon version, there is a rubber cap installed on the underside of the dipped beam headlamp. To reach this cap it may be necessary to remove the headlamp, depending on the vehicle model concerned. Remove the rubber cap (Fig. 2) and shift the internal lever.

In Fig. 3 the lens module has been removed from the housing to show the lever mechanism more clearly.

In the installed state, adjustment is possible through the opening C.



Fig. 1

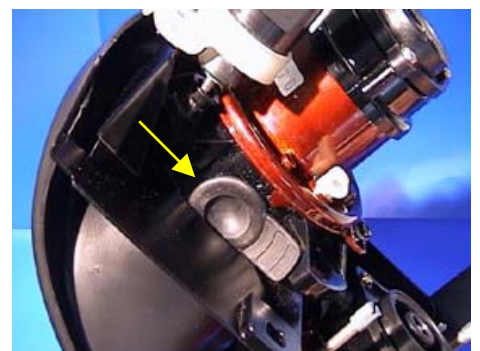
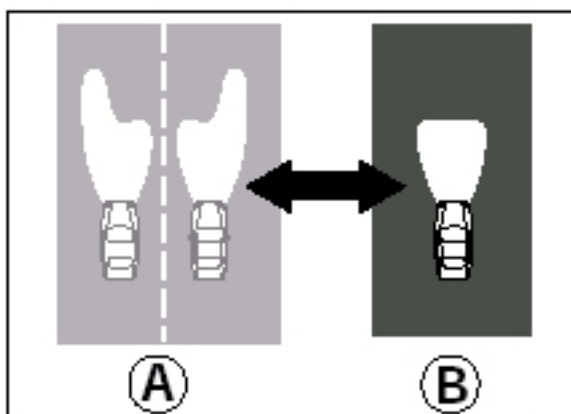


Fig. 2



A  $\Rightarrow$  Basic setting  
B  $\Rightarrow$  Neutral setting

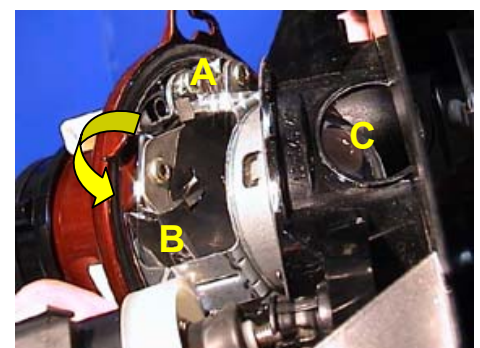


Fig. 3



Fig. 4 shows the shutter in the basic setting.



Fig. 4

Fig. 5 shows the shutter in the neutral setting. The displacement of the shutter achieves the shading of the asymmetrical light area.

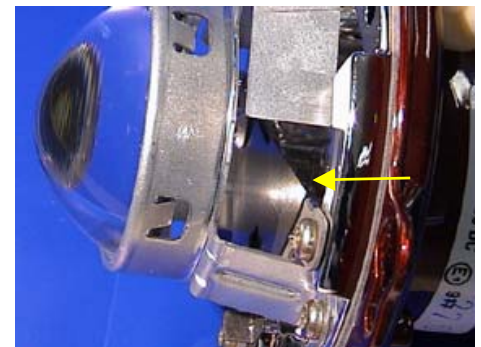


Fig. 5

Fig. 6 shows the halogen version of the 90mm modules. With these modules, conversion is achieved by turning the reflector. Loosen and/or remove the attachment screws, turn the reflector clockwise as far as it will go and fasten the screws again.

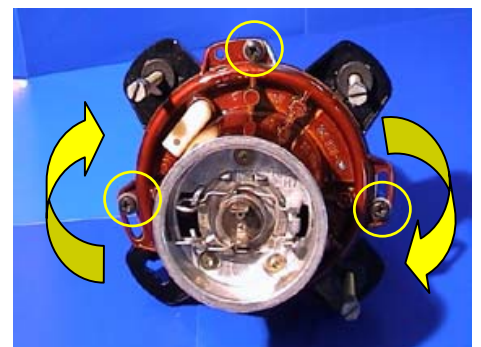


Fig. 6



Hella has developed the so-called tourist solution for halogen, xenon or Bi-Xenon light systems with projection modules. There is a small lever attached directly to the projection module (see Fig. 7). This is usually easily accessible. Shifting the lever moves a small shutter which shades the asymmetrical part of the dipped beam so that a symmetrical and thus glare-free beam pattern is produced.

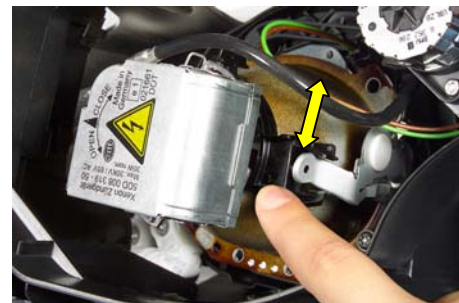


Fig. 7

In the case of clear-glass reflection headlamps, as with headlamps with a conventional lens, certain areas must be masked (see Fig. 8). Instructions on how to apply the strips can usually be found in the owner's manual for the vehicle.



Fig. 8