

1.6 European 'E' Beam Headlamp (Checked on Dipped Beam)

Diagram 1

Dipped beam image

Check the position of the 'break point'
And horizontal cut-off

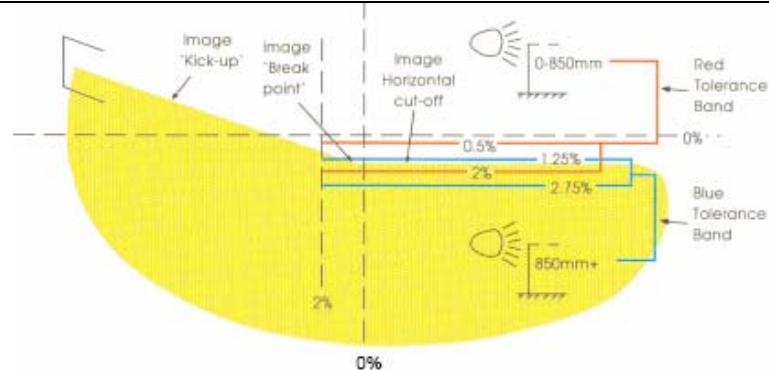
European type headlamp- Characteristics

- (a) an asymmetric dipped beam pattern with
 - a distinctive horizontal cut off on the right, and
 - a 15 degree wedge of light above the horizontal (the 'kick up') towards the left
- (b) a lens with one or more asymmetric stepped patterns moulded in the glass
- (c) a lens may carry
 - a European approval mark – a circle containing 'E' and a number or
 - a rectangle containing an 'e' and a number

The European approval mark should incorporate a Single or double-headed arrow.

A dip beam is denoted by either:

- a capital letter 'C' above a capital 'E'
- a capital letter 'C' above an 'e'



Note: Setting 'E' Beam Headlamp Aim

Repairs must not be carried out during an MOT test, however, minor adjustments to the headlamp aim are acceptable.

These dip beam headlamps should be set to aim downwards the amount shown on a marking which is either close to the vehicle manufacturer's plate or the headlamp.

For vehicles without a marking, the downward aim should be set to

- 1.3% if the headlamp centre is **not more than** 850mm from the ground
- 2.0% if the headlamp centre is more than 850 mm from the ground

Reason for Rejection

- B1.** The beam image 'kick' up is to the offside.
- 2. For headlamps with centres **not more than** 850 mm from the ground the beam image horizontal cut-off is not between the horizontal 0.5% and 2% lines, i.e. the **red** tolerance band.
- 3. For headlamps with centres **more than** 850 mm from the ground the beam image horizontal cut-off is not between the horizontal 1.25% and 2.75% lines, i.e. the **blue** tolerance band.
- 4. The beam image 'break point' is
 - to the right of the 0% vertical line, or
 - to the left of the vertical 2% line.