

Headlamps – Align (32 113 0)

Proprietary Tools

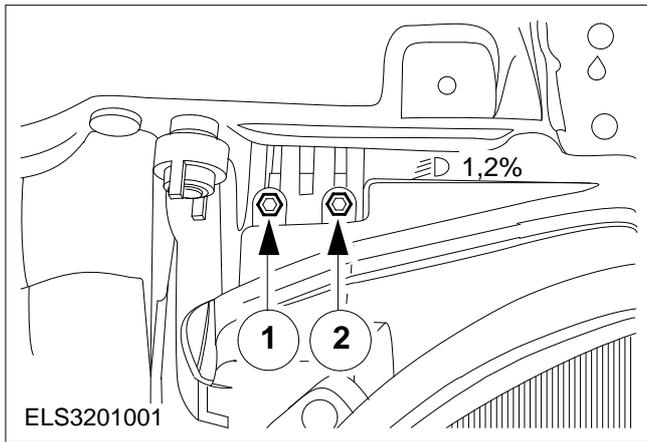
Headlamp beam setting equipment

Adjust

NOTE: Before adjusting the headlamps, check them for faulty lenses, reflectors and blackened bulbs and renew as necessary.

1. The following conditions must all be satisfied.

- Follow the operating instructions supplied by the equipment manufacturer.
- Stand the vehicle on level ground.
- Align the vehicle with the headlamp beam setting equipment as directed by the equipment manufacturer.
- Check the tyre pressures and correct them as needed.
- The vehicle must be unladen with a full fuel tank. If the tank is only half full or less, place a 30 kg weight in the luggage compartment. In addition, have a person or a 75 kg weight in the driver's seat.
- Bounce the front and rear of the vehicle several times or roll the vehicle a few metres to settle the suspension.
- On vehicles with a headlamp levelling system, operate the system several times to check that it is working correctly, then turn the switch to the basic position "0".
- Vehicles with self-levelling rear suspension (Nivomat) should not be shaken or loaded at least 1 minute before aligning the headlamps.
- Check that the reflector is set for an asymmetric dipped beam pattern and rectify as necessary.
- Set up the screen of the headlamp beam setting equipment for the following setting(X): $X = 12 \text{ cm}/10 \text{ m} = 0^\circ$,
41 minutes = 1,2 %

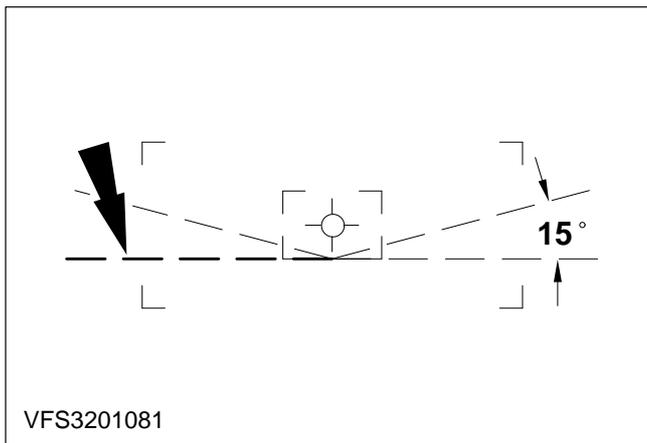


Align headlamps

2. Set the dipped beams.

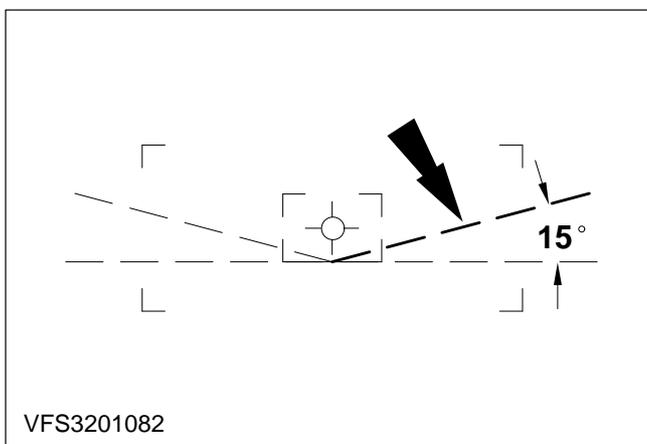
Switch on the dipped headlamps.

- 1 Vertical adjustment screw
- 2 Horizontal adjustment screw



3. Vertical alignment.

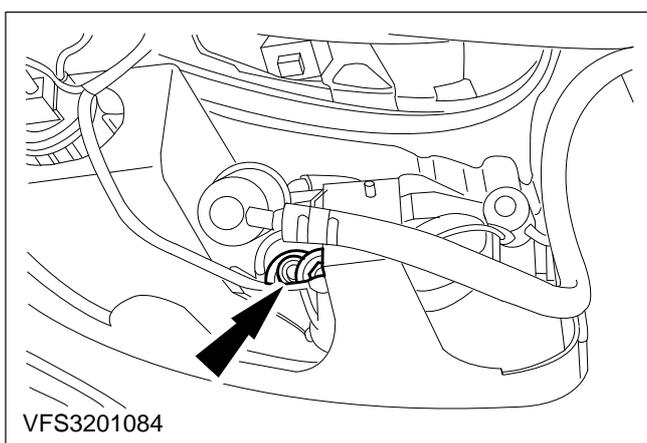
Adjust the dipped beams so that the light/dark boundary touches the horizontal line.



4. Horizontal alignment.

NOTE: A stray part of the dipped beam may lie above the 15° line.

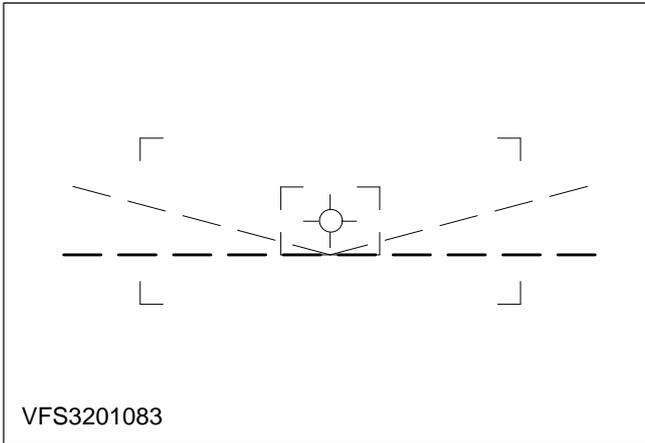
- Adjust the dipped beam so that the rising line of the light/dark boundary lies at the point of intersection of the horizontal line and the 15° line.
- The 15° line (left-hand drive).



Align fog lamps

5. Fog lamp adjustment screw

- Ensure the same conditions as for aligning the headlamps.
- Set up the beam setting equipment for the fog lamp alignment setting (X):
= 22 cm/10 m = 1°, 16' = 2,2%

**6. Align the fog lamps (continued).**

Adjust the fog lamps so that the light/dark boundary touches the horizontal line.