



Volvo Chassis - Models VNR, VNX, VNL, VNM, VAH - Headlamp Aiming Instructions; Headlight Alignment Inspection And Adjustment Information - Model Year 2018 And Newer



> Internal Content

HEADLAMP AIMING INSPECTION

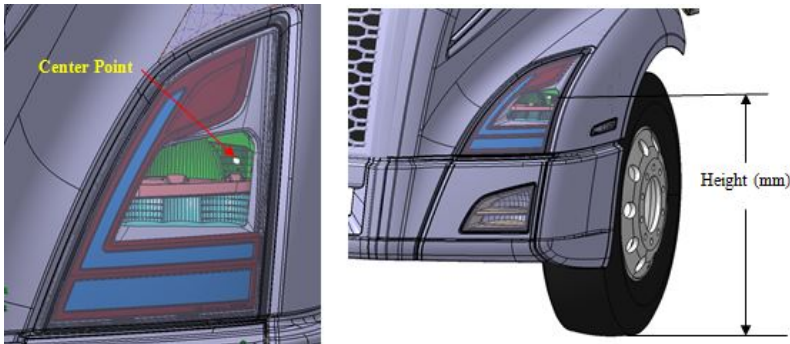
1. Mechanical headlamp aiming required

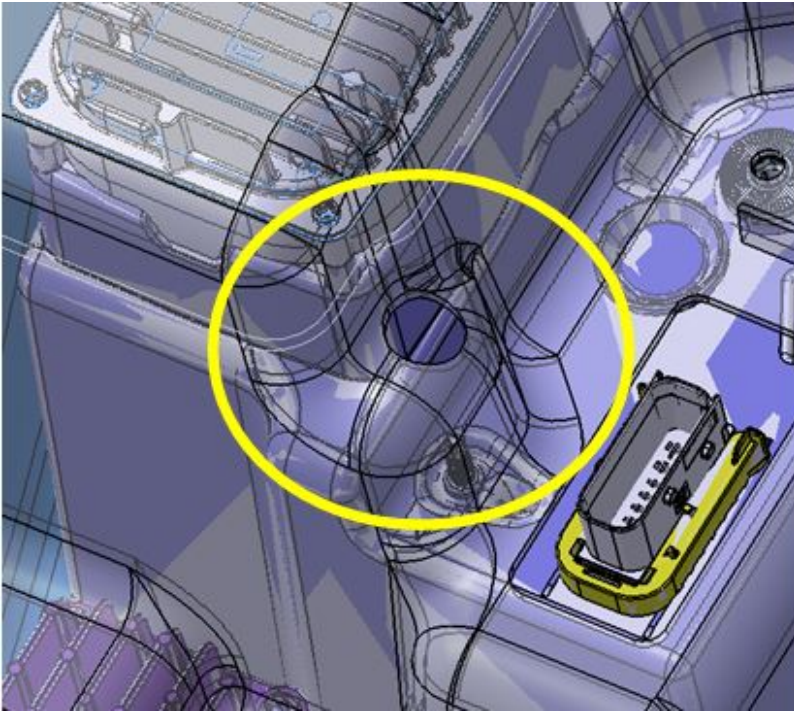
- Level floor is required prior to aiming.
- All chassis suspension air bags are to be fully inflated prior to aiming.

2. Headlamp Aiming:

Visual inspection may be performed on an aiming screen 25 feet (7.6 meters) in front of the vehicle.

Measure Headlamp center point from Ground. Headlamp center point is marked on Headlamp lens.





Aiming Torque: TYP- 0.8 Nm and Max 1.0 Nm.

Adjustment range: $\pm 4^\circ$

Clockwise: Up

Counterclockwise: Down

Do not over tighten / Do not use power tools for adjustment.

The light/dark cutoff of the left side (VOL) is standard adjusted at Supplier with an angel of 0.4° on the aiming screen (LEFT TOP EDGE OF HIGH INTENSITY ZONE must be adjusted, not Right Top)!

Right side Aiming: same as Left side.

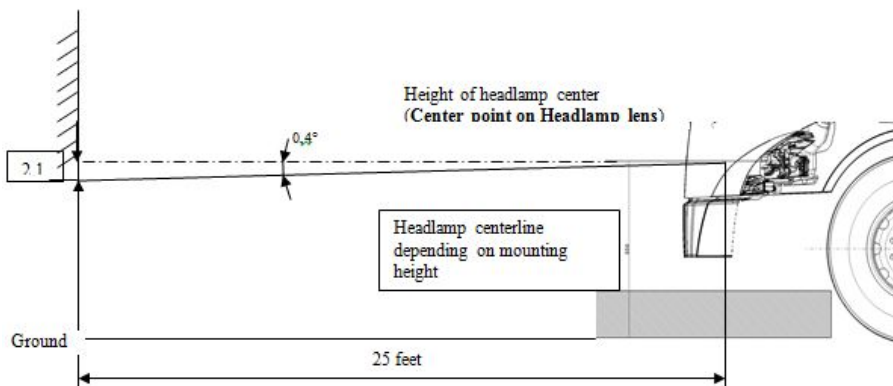


Figure 1

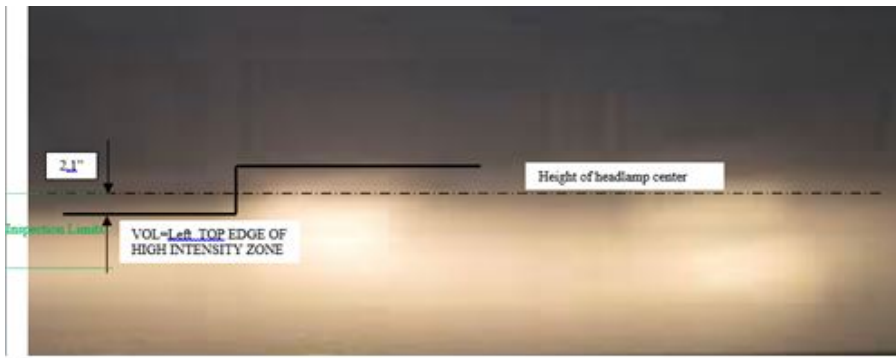


Figure 1

HEADLAMP AIMING – VISUAL INSPECTION: LOW BEAM

Visual inspection may be performed on an aiming screen 25 feet (7.6 meters) in front of the vehicle.

See Figure 2.

In the horizontal direction, the left edge of the high intensity zone shall be located from 4 inches (100 mm) left to 4 inches (100 mm) right of the vertical centerline of the lamp.

- **NOTE: Volvo GTO is NOT required to perform Horizontal aiming procedure.**

In the vertical direction, see Table 1 below for specifications.

Table 1 – Vertical Beam Aim

Headlamp (centerline) Mounting Height	Inspection Limits for Vertical Aim
22 to 36 inches (56 to 90 cm)	4 inches (10 cm) up to 4 inches (10 cm) down
36 to 48 inches (90 to 120 cm)	2 inches (5 cm) up to 6 inches (15 cm) down
48 to 54 inches (120 to 140 cm)	1.5 inches (4 cm) up to 6.5 inches (16.5 cm) down

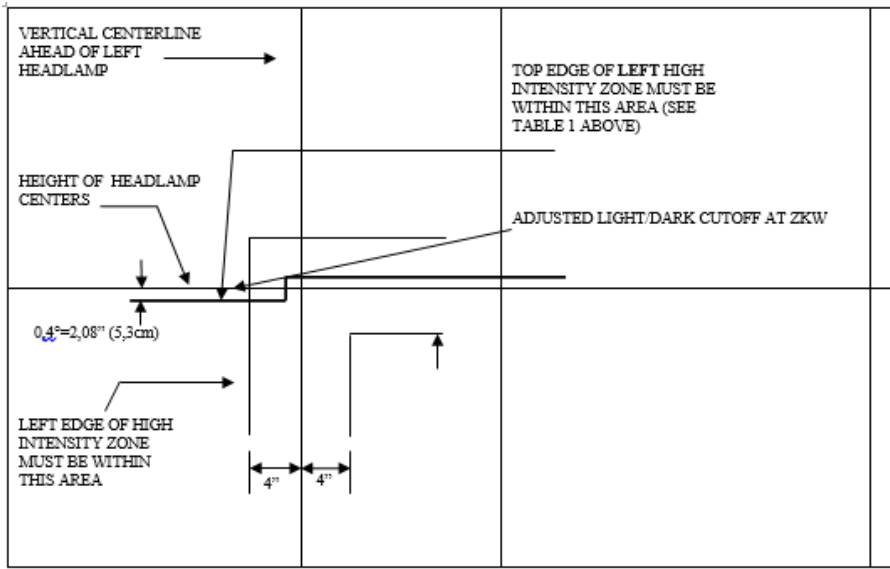


Figure 2 Aiming Screen Low Beam

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