

# Snowplow Headlamp Beam Aiming

After correct visual aim is achieved, tighten the headlamp fasteners to 22 ft-lb (30 N·m) if the headlamp has 3 bulbs or LEDs, or to 50 ft-lb (68 N·m) if the headlamp has 2 bulbs.

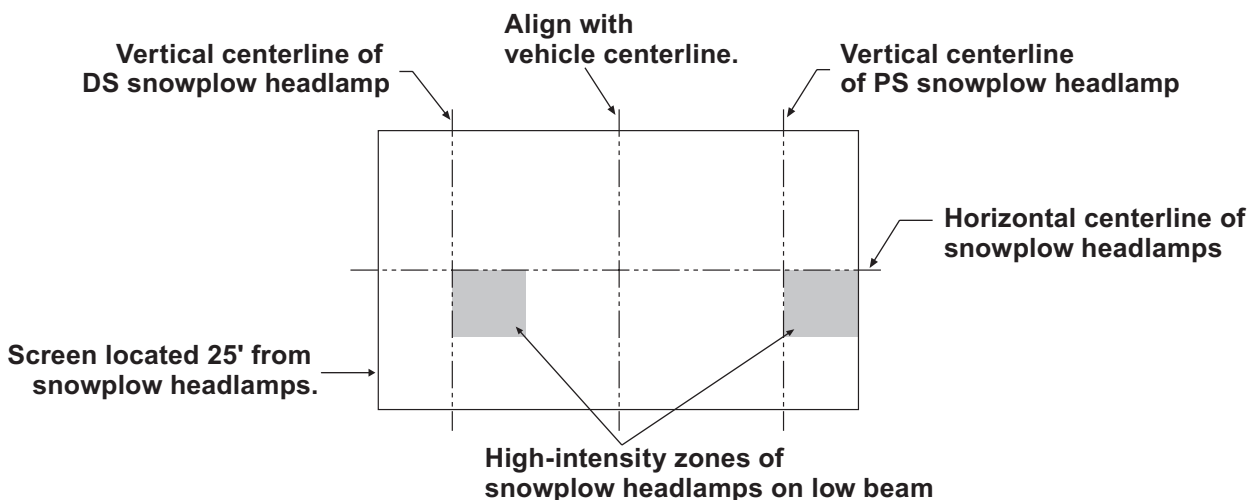
Park the vehicle on a level surface 25 feet in front of a matte-white screen, such as a garage door. The screen should be perpendicular both to the ground and to the vehicle centerline.

The vehicle should be equipped for normal operation. The snowplow blade should be in place and in raised position.

See that there is no load in the vehicle other than the driver and ballast, as specified in the online selection system.

Below are the steps listed by the Society of Automotive Engineers (SAE) pertinent to headlamp aiming in specification #SAE J599d.

1. Prepare the vehicle for headlamp aim or inspection. Before checking beam aim, the inspector will:
  - a. Remove ice or mud from under fenders.
  - b. Set tire inflation pressures to the values specified on vehicle information label.
  - c. Check springs for sag or broken leaves.
  - d. Check the functioning of any automatic vehicle leveling systems and specific manufacturer's instructions pertaining to vehicle preparation for headlamp aiming.
  - e. Clean the headlamp lenses.
  - f. Check for bulb burnout and proper beam switching.
  - g. Stabilize the vehicle suspension by rocking the vehicle sideways.
2. Mark (or tape) the vertical centerline of the snowplow headlamps and the vertical centerline of the vehicle on the screen. Mark the horizontal centerline of the snowplow headlamps on the screen (distance from ground to snowplow headlamp centers).
3. Align the top edge of the high-intensity zone of the snowplow lower beam below the horizontal centerline and the left edge of the high-intensity zone on the vertical centerline for each snowplow headlamp. (Refer to diagram below.)



The company reserves the right under its product improvement policy to change construction or design details and furnish equipment when so altered without reference to illustrations or specifications used. This equipment manufacturer or the vehicle manufacturer may require or recommend optional equipment for snow removal. Do not exceed vehicle ratings with a snowplow. The company offers a limited warranty for all snowplows and accessories. See separately printed page for this important information.

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