

INSTALL THE BRACKET SO
THE CAMERA IS LEVEL ± 1
DEGREE WHEN THE TRUCK
IS PARKED ON A LEVEL SURFACE.

20 MM \pm 3 MM

MEASURE FROM BOTTOM OF
SOLID BLACK FRIT AT THE TOP
OF THE WINDSHIELD TO THE
TOP OF THE BRACKET.
NOTE: THIS LINE MAY NOT BE
STRAIGHT OR LEVEL.

BRACKET
CENTERLINE

ALIGN THE CENTERLINE OF THE
BRACKET WITH THE CENTERLINE
OF THE WINDSHIELD.

WINDSHIELD
CENTERLINE

WINDSHIELD

BRACKET

CAMERA

Bracket Installation

CAUTION: Do not install the bracket if the surface temperature of the windshield glass is less than 60°F (15°C).

NOTE: Prior to installing the bracket, ensure that the windshield glass surface temperature ranges between 70° and 100°F (21°C to 38°C).

- 1) The windshield should be cleaned with a 50/50 mixture of isopropyl alcohol and water prior to applying the 3M VHB 4991B tape.
- 2) The windshield surface should be dry and free of condensed moisture. A Silane promoter can also be used to improve adhesion.
- 3) Ideal application temperature for the tape ranges from 70° and 100°F (21°C to 38°C). Minimum suggested application temperature is 60°F (15°C).
- 4) If required, the tape (attached to the bracket) could be warmed up to the ideal temperature range before applying it to the windshield. This may help to obtain full contact between the tape and the windshield.
- 5) Once the bracket is located in its installation position, the bracket shall be gently pressed to the glass surface to increase adhesion. Pressure up to 30N/cm² (related to adhesive tape area) can be applied but care has to be taken that only the flat surface of the bracket is pressed (not the area with snaps or air flow ridges). The recommended pressure is 10N/cm² (related to the area of adhesive tape). The bracket needs to be pressed to the windshield for 5 seconds before releasing the pressure again to achieve good contact. Repeat this step across all area of contact to avoid formation of any air gaps. A secondary check should be done by viewing from outside the windshield to ensure full contact between the adhesive tape and the windshield is established.
- 6) The installation tolerances of the bracket are:
 - a. Height = ± 0.1 mm
 - b. Offset = ± 0.1 mm
- 7) Wait 20 minutes keeping the ideal application temperature ranges to cure the bracket to the windshield before attaching the camera to the bracket.
- 8) Attach the camera to the bracket. The lens end of the camera module has to be rotated towards the bracket and snapped in. The insertion force required to install the camera module is ~50N. The temperature of the camera module during installation and calibration must be between 60° and 77°F (15°C to 25°C).

NOTE: Print template "Actual Size" on 11" x 17" paper.

Camera Installation

See OnLaneALERT™ Lane Departure Warning (LDW) System Maintenance Manual MM1814 for detailed installation instructions.



WABCO
OnLaneALERT™ Installation Template

Freightliner M2
One-Piece Windshield