

Instructions for sensor removal and installation

Important:

Before removing the windshield make certain that there is no power supply to the sensor unit by removing the ignition key.

Note: Under no circumstances should you remove the windshield with sensor attached or with the ignition or power supply is activated. This may result in a malfunction to the sensor unit. Any subsequent sensor error or malfunction can only be rectified by taking the vehicle to an authorized dealer for re-calibration.

Before detaching the glued sensor from the windshield:

Remove the cover of the sensor unit and ensure that all cables are carefully stowed.

1.) Detaching the glued sensor from the windshield:

After removing the windshield, place on a windshield stand or suitable alternative table and heat the external glass of the windshield in the sensor area with a hair dryer (max. 1 min. at 167-194°F). If available, place the appropriate sensor removal tool over the pre-heated optical element and with a rotating movement; break the adhesive seal between the sensor and glass. Do not use razor blades to remove the sensor unit as this may cause damage.

GGG Sensor Removal Tools
GTOOL 301, 302, 303



Note: Some sensor units are similar in appearance. Care must be taken to avoid mixing up models as this can result in major technical problems and malfunctions.

2.) Removing the adhesive pad from the optical unit:

For most glued sensors it is recommended immersing the sensor in hot water (up to 194°F max.) after detaching from the windshield, this will help in the removal of the old adhesive pad. Remove the remaining adhesive pieces in a longitudinal direction or peel off with your thumb. Do not use any razor blades or cutting tools to remove adhesive pads from the sensor surface as this may scratch the surface and render the optical element unusable.

3.) Cleaning the optical unit:

Thoroughly clean the face of the sensor surface that is to receive the new adhesive pad with **sensor activator** or Isopropyl cleaning product and a lint-free cloth.

4.) Cleaning the windshield:

Thoroughly clean the area of the windshield where the sensor is to be attached with **sensor activator** or Isopropyl cleansing product and a lint-free cloth.

5.) Attaching the adhesive pad to the optical element:

Partially remove a small section of the cover of the adhesive pad and place on one side of the face of the sensor and slowly by peeling off with your thumb, remove the rest of the cover of the adhesive pad and press it onto the face of the sensor in stages. Never attempt to press the adhesive pad over the entire surface in one operation/movement as this may result in bubbles forming on the optics side. Press the adhesive pad onto the sensor unit in stages this will allow any air bubbles to be dispersed.

Caution: during and after pressing the adhesive pad onto the sensor, avoid deformations to the outer red surface or liner of the adhesive cover material.

6.) Detaching the outer protective cover from the adhesive pad:

To improve the adhesive characteristics, and to ease the removal of the red protective cover, use a hair-dryer or similar device to warm up the adhesive pad. The heat source should be directed on to the adhesive pad for only a few seconds until the surface of the red protective cover starts to deform (ripples). Carefully remove the protective cover from the adhesive pad by first lifting up one corner and then in an even movement, pull off completely or use the pull-off tag where applicable. Avoid making any impressions on the exposed adhesive pad. The sensor unit should be immediately placed onto the glass in the desired position as the adhesive surface is electro statically charged and may attract dust particles if left exposed to the environment.

7.) Attaching the optical element onto the windshield:

Apply pad primer on the clean, dust-free area of the windshield where the sensor is to be attached. Use pad primer so that is possible to slightly move the sensor unit during installation. It is advisable not to place the optical element directly onto the glass but to start at an angle and gradually lower it into position without pressure. Slide the optical element back and forth until no bubbles are visible by checking the outside of the windshield. (The curvature of the windshield can affect the initial adhesion and may influence the formation of bubbles.) When the sensor is in its final position apply slight pressure to complete the installation process.

Note: Preheating the windshield; Depending on the climatic conditions it may be necessary to preheat the area of the windshield where the sensor is to be applied to 20°C to avoid condensation. It is recommended to use a hair-dryer for this process.

8.) Final inspection of the glued sensor unit:

Examine the final assembly for a bubble-free installation. If there is any contamination or bubbling, repeat the application process.

April 2007

The information expressed in this publication is intended as a general guide only, and as product features may vary according to each specific Model / manufacturer it is recommended that you always seek the latest information from the vehicle manufacturer. GGG Corp cannot accept responsibility or liability for any errors contained in the aforementioned text.