



## VOLVO GENUINE WINDSHIELDS

The windshield is one of the most important parts of the car. Not only does it ensure an undistorted view – it also is a critical structural component of the vehicle. That means the installation process for windshield replacement has to be exact and performed using only Volvo Genuine glass in order to retain the original properties.

*Crucial for  
the function of  
the safety systems*



## MORE THAN JUST GLASS

There are aftermarket windshields available in the marketplace, but there is no guarantee they were manufactured to Volvo's exacting specifications. The windshield is important to the structural integrity of the vehicle and also interacts with many Volvo safety systems. The only way to preserve performance and guarantee safety is to install Volvo Genuine Windshields.

Using Volvo-specified adhesives will bond the windshield to the same strength as when assembled in the factory. It's important the bond has the right strength for the function of the passenger airbag which is designed to use the windshield as a support when deployed.



## DEMANDS ON VOLVO GENUINE WINDSHIELDS

The windshield must meet numerous requirements. Some of the properties specified include: mechanical strength, form, light transmission, optical distortion, secondary image, color identification and resistance to temperature changes. Aftermarket alternatives may not meet Volvo specifications and can affect the car's passive and active safety functions as well as the overall rigidity of the vehicle body.

## SAFETY SYSTEMS

The windshield supports the function of about 20 safety systems. This is because of the ASDM (Active Safety Domain Master) that is located inside the upper edge of the windshield of all Volvo SPA cars. The camera and radar unit in the ASDM are used together or individually to enable about 20 different functions, including City Safety, Adaptive Cruise Control, Pilot Assist, Lane Keeping Aid, Driver Alert Control, Road Sign Information and Active High Beam, to name a few. The camera and radar are sensitive to optical and geometric tolerances, glass thickness and mass of the windshield. The software is fine-tuned for each windshield variant and demands extremely stringent optical tolerances to function as intended.



When replacing the windshield, it is important that all features function as expected. For example, it is necessary to calibrate the ASDM unit in order to secure the functionality of City Safety and a number of other safety functions when a windshield has been replaced.

Cars with graphic Head-Up Display are equipped with a special windshield to achieve good quality in the projected image. Installing the wrong type of windshield can result in double images or image distortion.



## BENEFITS OF INSTALLING VOLVO GENUINE WINDSHIELDS

### 1. The right windshield ensures proper function of the safety systems

The camera and radar are sensitive to optical tolerances and thickness of the glass.

### 2. The installation is performed properly

It's necessary to use the Volvo VIDA system to perform necessary calibrations after installation.

### 3. The windshield is bonded to the same strength as when assembled in the factory

Using Volvo-specified adhesive ensures the bond has the right strength for retained safety.