

# COLLISION REPAIR INFORMATION

## FOR THE TOYOTA DEALER

TITLE: WINDOW GLASS IDENTIFICATION

PAGE 1 of 3

SECTION: EXTERIOR BULLETIN #32

MODELS: ALL

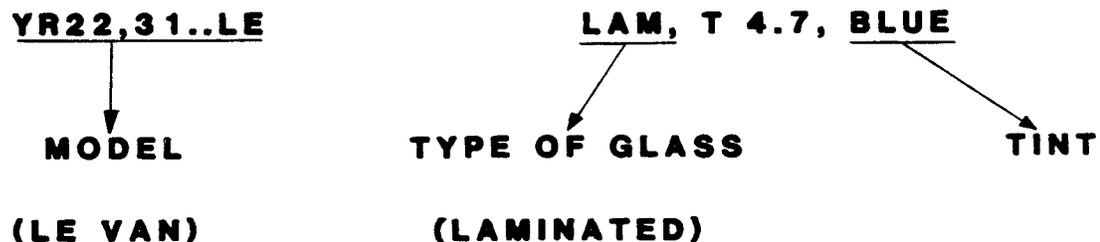
DATE: DECEMBER 1988



To meet various government regulations, engineering considerations and customer preferences, Toyota vehicles contain a wide variety of glass types including tempered, laminated, tinted and glass with specified optical quality. Government safety regulations specify the type of glass that must be used for windshields, side windows and rear windows. Laminated glass of a specific optical quality must be used in windshields, while tempered glass can be used for side and rear windows. The use of tinted glass of various colors and darkness may be based on engineering considerations, such as those determined by A/C cooling capacity, as well as on customer preference.

Whatever the reason for the type of glass used, it is important to understand how to determine the correct replacement glass. If not done properly, the incorrect glass might be ordered and installed. By understanding how to determine the correct type and color, time and money can be saved and ultimately customer satisfaction will be realized.

Three basic things must be known to consistently order the correct glass: the vehicle model, the type of glass and the glass tint for each piece. The following is a typical Toyota parts microfiche description illustrating the three kinds of information required:



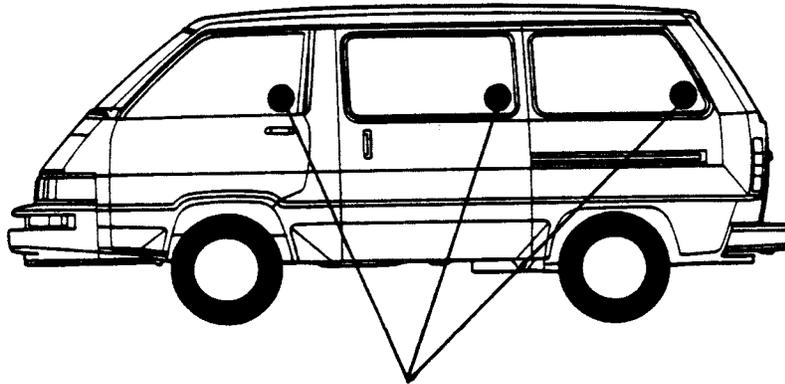
- Vehicle model – The vehicle production date and model code can be found on the vehicle certification label affixed to the rear edge of the driver's door on 1989 models or on the driver's door or door post on earlier models. The correct vehicle production date and model code are important, because the glass for certain models may contain special parts such as antenna wires or defroster grids built into the glass, and because mid-year changes may occur during production.

- Tint – The correct window tint should be noted for each piece of glass. The simplest way to evaluate the tint is to place a white sheet of paper on the surface of the glass and another piece of paper behind the glass. The sheet on the surface is for reference purposes since the eye will sometimes automatically compensate for the color change of the sheet, thereby making determination of the true color difficult.

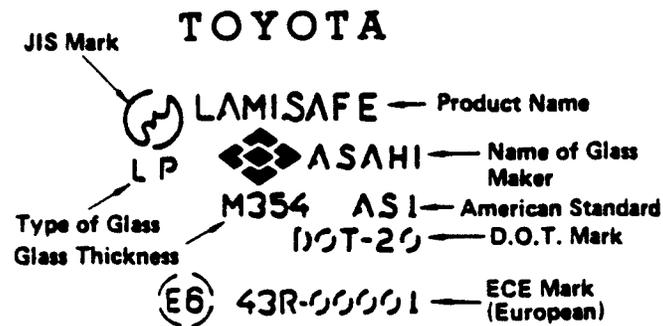
When evaluating window glass tint, please note the following:

- Some windows may not be tinted.
  - Ensure the window has only factory applied tint. Many vans and other vehicles may have had aftermarket tinting added.
  - Check all the windows for tint color. For example, some vehicles may have brown tinted windshields and blue tinted side windows, while other vehicles may have the same color throughout, or other combinations.
- Glass type – There are two types of glass used in Toyota vehicles, laminated and tempered. Tempered glass is used for all applications except the windshield, where laminated glass is used exclusively. The only exceptions to this rule are the rear side windows on some vans, which may be made of laminated glass depending upon model.

Because there are several different types and colors of glass used in vans, determining the correct glass from the rear windows may require additional attention. The Toyota parts microfiche indicates the type of glass used and the optional tint colors available. The tint color can be determined by the previously discussed white paper method and the glass type can be determined by using the I.D. markings located in the corner of the window as shown below.



**GLASS MARKING LOCATIONS ON VAN**



## TYPICAL GLASS I.D. MARKINGS

LP or the word “laminated” indicates laminated glass, while TP or the word “temper” indicates tempered glass. With these two pieces of information, the color tint and type of glass, the correct glass for the application can be ordered.

**IMPORTANT:** Always double check the replacement glass before installation to make sure it is the correct type and color.

Additionally, ensure the correct type of sealer is always used to meet factory and government regulations for glass retention. Refer to the proper Toyota Repair Manual or use one of the following information sources:

Toyota Service Bulletin Volume 9 – Body 009

Collision Repair Information Bulletin Number 31.

**NOTE: PLEASE ROUTE THIS BULLETIN TO THE BODY SHOP MANAGER OR THE PERSON RESPONSIBLE FOR COLLISION REPAIR INFORMATION.**