

ELECTRIC HEATED GLASS WINDSHIELD AND SIDE WINDOWS - SERVICING

1. General

- A. The electric heated windshield and heated side windows are of glass construction. Care must be exercised in cleaning these windows to avoid damage and deterioration of Surface Seal™ rain repellent outer surface coating.

CAUTION: Do not apply unauthorized rain repellent coatings or compounds to the electric heated glass windshield or associated heated glass side windows. Surface Seal™ is the only authorized rain repellent coating. Apply only with windshield manufacturer's authorization and instructions.

- B. Each electric heated side window incorporates an inner frost pane. The dry air space between the frost pane and heated window assembly is maintained with heated air.
- C. For cleaning/polishing/servicing of acrylic windshields and windows, refer to Acrylic Windows - Servicing .

2. Description

- A. The electric heated windshield and electric heated forward side windows are of all glass construction with bonded fiberglass edge attachments, designed to withstand a wide range of temperature and pressure fluctuations. Heating of the windshield/windows is accomplished through an electrically conductive film applied to the inner surface of the outboard glass ply.

3. Equipment and Materials

CAUTION: Prior to using any cleaner or repellent on the windshield/windows, ensure that all manufacturers cautions and recommendations are read and followed.

CAUTION: Read label on glass cleaner container to ensure that the cleaner does not contain hydrofluoric acid as an ingredient. Hydrofluoric acid, even in minute traces, will destroy the Surface Seal™

NOTE: Equivalent substitutes may be used for the following listed items:

Table 301. Cleaners

NAME	NUMBER	MANUFACTURER	USE
Isopropanol/Water, 50/50 solution		Commercially available	To clean glass windows and windshields.
Dishwashing Detergent	Ivory or Joy	Commercially available	To clean glass windows and windshields.

Table 302. Cleaning Cloths/Materials

NAME	NUMBER	MANUFACTURER	USE
Cloth	Rymplecloth No. 3-01	Kendal Company Textile Division New York , NY	To clean glass windows and windshield.
Soft Sponges		Commercially available	To clean glass windows and windshield.

NAME	NUMBER	MANUFACTURER	USE
White Turkish Toweling		Commercially available	To clean/dry glass windows and windshield.
Soft Paper Toweling	Kaydry Wipers	Commercially available	To clean/dry glass windows and windshield.

Table 303. Repellent

NAME	NUMBER	MANUFACTURER	USE
Rain Repellent	Surface Seal™	PPG Industries, Inc. P.O. Box 2200 Huntsville , AL 35804	To aid in repelling water (to be applied only with manufacturers authorization and instructions).

4. Cleaning Heated Glass Windshield/Forward Side Windows

A. Use only approved cleaners and materials when cleaning the windshield/windows. Procedures for cleaning are as follows:

NOTE: The outer glass surface of the electric heated windshield and forward side windows should be cleaned in a manner that will protect the Surface Seal™ water repellent coating.

- (1) Flush outer surface of windshield/side windows with clean water to remove excessive dirt and other substances.

NOTE: Adhered particles should be dislodged using fingers or fingernails.

CAUTION: Do not use abrasive materials such as pumice or strong acid based cleaners. These materials will damage the Surface Seal™ water repellent outer coating of the windshield and forward side windows.

- (2) Using materials, such as a soft cloth or clean sponge, wash windshield/side windows with a 50/50 solution of isopropanol and water. If isopropanol is not available, the following alternate cleaning solutions may be utilized:
 - (a) A 50/50 solution of rubbing alcohol and water.
 - (b) Mild liquid detergents (Ivory or Joy dishwashing liquid) mixed 1/4-ounce (7.1 ml) per gallon (3.8 liters) of water.
 - (c) Full strength Windex glass cleaner.
- (3) Flush thoroughly with clean water and dry. Wipe dry with strokes in one direction using a damp soft cloth, damp sponge or soft paper toweling such as Kaydry Wipers.

NOTE: Do not apply polish or wax to the glass surface of the heated windshield or heated forward side windows.



Acrylic, Plastic & Glass Cleaner

"The windscreen cleaner designed specifically for aviation"

- Developed by the aviation industry's leading windshield manufacturer.
- Tough on dirt, gentle on everything else.
- Safe for all Acrylic, Polycarbonate, Glass & Coated Glass