



AIRCRAFT
MAINTENANCE MANUAL

COCKPIT WINDSHIELD - CLEANING/PAINTING

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do the cleaning of the cockpit windshield.
- B. The procedures in this section are given in the sequence below. The tasks identified with (♦) are part of the Scheduled Maintenance Requirements Document (SMRD).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
56-10-01-100-801-A	COCKPIT WINDSHIELD - CLEANING	ALL



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 56-10-01-100-801-A

EFFECTIVITY: ALL

2. COCKPIT WINDSHIELD - CLEANING

A. General

- (1) Obey the instructions below to clean the cockpit windshield.

B. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223	-	Cockpit windshield
224	-	Cockpit windshield

C. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the cockpit windshield from the outside	

D. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Water spray	To help with the cleaning of the cockpit windshield	
Commercially available	Soft lint-free cloth	To clean the cockpit windshield	

E. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
AMS-1526	Ivory soap flakes solution (solution - 01 cup of flakes + 01 gallon warm water)	AR
TRITON X-100	Non - ionic detergent solution (solution - 10% detergent + 90% warm water)	AR
FED SPEC TT-I-735	Isopropyl alcohol (solution - 50% detergent + 50% warm water)	AR
FED SPEC TT-N-95, type II	Aliphatic naphtha	AR
-	Glance glass cleaner with foam (spray can) - (use only on the glass faceonly)	AR
-	RAIN X - Unelko Corporation	AR

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Outside and inside the cockpit

H. Preparation
SUBTASK 841-003-A

- (1) Put the workstand in position and get access to the cockpit windshield from the outside.

I. Cleaning
SUBTASK 110-003-A

WARNING: CLEANING PRODUCTS ARE TOXIC AND FLAMMABLE. A GOOD FLOW OF AIR MUST BE AVAILABLE WHEN THE WORK IS DONE IN A CLOSED AREA.

- CAUTION:**
- DO NOT PERMIT THE CLEANING PRODUCTS (SOLVENTS) TO TOUCH PAINT-FINISH SURFACES, PLASTICS, OR SEALANT BEADS NOT TO CAUSE DAMAGE TO THEM.
 - DO NOT PUT REMAINING CLEANING MATERIAL BACK INTO ORIGINAL CONTAINERS TO PREVENT CONTAMINATION.
 - DO NOT POUR CLEANING PRODUCT DIRECTLY ON THE SURFACE TO BE CLEANED.
 - DO NOT PERMIT THE CLEANING PRODUCT TO EVAPORATE BEFORE IT IS DRIED WITH THE LINT-FREE CLOTH.
 - DO NOT WEAR CLOTHES WITH ZIP FASTENERS, NOR USE METAL OBJECTS (SUCH AS WATCHES, BRACELETS, AND RINGS) OR METAL TOOLS WHEN YOU CLEAN THE WINDSHIELD, BECAUSE THEY MAY SCRATCH THE TRANSPARENCY AND CAUSE OPTICAL DISTORTIONS.
 - DURING THE CLEANING OF THE WINDSHIELDS, DO NOT USE ABRASIVE MATERIALS (SCOTCH BRITE SPONGE, SAND PAPER, POLISHING WAX, ACIDS OR ALKALIS) BECAUSE THEY WILL REMOVE THE ANTISTATIC FILM THAT THERE IS ON THE WINDSHIELD OUTER SURFACE.

- (1) Cleaning of the windshield external glass surface:

- (a) To cleaning of the windshield external, do as follows:

1 Method I:

- a Apply clean water to the outer surface to remove the dust and other substances from the windshield.

NOTE: It is recommended that the water be applied with a sprayer.

- b Rub the windshield surface with a soft cloth or soft sponge soaked in non-ionic detergent or ivory soap, with regular vertical strokes.

- c Flush all surface with clean water.

- d Dry the surface with a clean, dry cloth.
- e If necessary, do steps 1 to 4 again, until all dirt, dust, grime, and haze are removed.

2 Method II:

- a Rub the windshield surface with a cloth soaked in isopropyl alcohol until all signs of dust are removed.
- b Rub the windshield surface and dry with a clean and dry cloth.
- c If necessary, do steps 1 and 2 again, until all dirt, dust, grime, and haze are removed.

3 Method III:

- a Rub the spray foam on all the window surface, with slight strokes, until all of the foam (sprayed-on solution) is removed.
- b Rub slightly until all foam, dirt, dust, grime, and haze are removed.
- c If necessary, do steps 1 and 2 again until all foam, dirt, dust, grime, and haze are removed.

(b) To cleaning of the windshield external with RRC (Rain Repellent Coating), do as follows:

CAUTION: ANY NON-APPROVED PRODUCT MAY HAVE AN ADVERSE EFFECT ON THE COATING.

1 Method I:

- a Apply clean water to the outer surface to remove the dust and other substances from the windshield.
NOTE: It is recommended that the water be applied with a sprayer.
- b Rub the windshield surface with a soft cloth or soft sponge soaked in non-ionic detergent or ivory soap, with regular vertical strokes.
- c Rub the windshield surface with a soft cloth or soft sponge soaked in non-ionic detergent or ivory soap, with regular vertical strokes.
- d Dry the surface with a clean, dry cloth.
- e If necessary, do steps 1 to 4 again, until all dirt, dust, grime, and haze are removed.

2 Method II:

- a Rub the windshield surface with a cloth soaked in isopropyl alcohol solution until all signs of dust are removed.
- b Rub the windshield surface and dry with a clean and dry cloth.

- c If necessary, do steps 1 and 2 again, until all dirt, dust, grime, and haze are removed.

3 Method III:

- a Rub the spray foam on all the window surface, with slight strokes, until all of the foam (sprayed-on solution) is removed.
 - b Rub slightly until all foam, dirt, dust, grime, and haze are removed.
 - c If necessary, do steps 1 and 2 again until all foam, dirt, dust, grime, and haze are removed.

CAUTION: USE ONLY IN SMALL AMOUNTS OF RAIN-X IN LOCAL AREAS OF THE GLASS FACEPLY ONLY, IF GRIME CANNOT BE REMOVED WITH PRODUCTS USED ABOVE DO NOT ALLOW PETROLEUM DISTILLATES TO TOUCH PLASTIC PORTIONS OF THE WINDOW SEALS.

CAUTION: RAIN-X MAY NOT BE USED AS SUBSTITUTE TO THE RRC. IT MAY BE USED EXCLUSIVELY FOR CLEANING.

4 Method IV:

- a Using a folded cloth to clean, apply RAIN-X and rub the complete window, using small circular motions and maintaining firm pressure.
 - b Allow the window to sit for 3-to-5 minutes, then polish the treated surface with a fresh dry cloth, until wetness and haze disappear.
 - c Repeat the steps 1 and 2 as required, until all dirt, grime, dust and haze are removed from the window surface.

(2) Cleaning of the windshield internal surface:

(a) Method I:

- 1 Rub all the windshield surface with a soft cloth or sponge soaked in non-ionic detergent or ivory soap, with regular vertical strokes.
 - 2 Remove all applied solution with a cloth soaked in clean water.
 - 3 Rub the windshield dry with a dry, clean cloth.
 - 4 If necessary, do steps 1 to 3 again until all dirt, dust, grime, and haze are removed.

(b) Method II:

- 1 Rub the windshield surface with a cloth soaked in isopropyl alcohol until all signs of dust are removed.
 - 2 Rub the windshield dry with a dry, clean cloth.
 - 3 If necessary, do steps 1 and 2 again until all dirt, dust, grime, and haze are removed.



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J. Follow-on

SUBTASK 842-003-A

- (1) Remove the workstand from the work area.