

GULFSTREAM G550

MAINTENANCE MANUAL

LEADING EDGE ASSEMBLY — CLEANING / PAINTING

1. Wing Leading Edge — Polishing

A. Preparation

CONSUMABLES

Lint free cloth	AMS-3819
Polish	See Note
Solvent	See Note
Corrosion inhibitor	Xzilon 3

NOTE: Use approved polish and solvent. See Table 701 and Table 702.

(1) Reference

- [Safe Ground Maintenance Procedure, 20-00-00, Maintenance Practices](#)

(2) Aircraft Preparation

- (a) Prepare aircraft for safe ground maintenance. See [Safe Ground Maintenance Procedure, 20-00-00, Maintenance Practices](#).

CAUTION: NO SANDING, CHLORINATED SOLVENTS OR CHLORINATED CLEANERS SHALL BE USED ON THE WING LEADING EDGES.

- (b) Clean leading edges prior to polishing with lint free cloth and an approved cleaning solvent. See Table 701.

NOTE: Alternate solvents complying with AMS-1530 may be used.

B. Procedure

CAUTION: ENSURE PROTECTIVE ALCLAD COATING IS NOT REMOVED FROM THE LEADING EDGES DURING THE POLISHING PROCESS.

(1) Polish leading edges of wings as follows:

- (a) Thoroughly wipe entire surface with a detergent or solvent using a lint-free wiper.
- (b) If required, polish dulled surfaces with Nuvite G6 or 3M Perfect-It III using a rotary buffer with wool or cotton pad.

NOTE: Use Nuvite F7 may be used for initial polishing of heavily oxidized or dulled surfaces.

Use of alternate polishing compounds conforming to AMS-1650 (Aircraft Metal Polish) requirements may be used in subsequent polishing. See Table 702.

If using mechanical polishing equipment, the RPM settings and type of buffing pads shall be those specified by the polishing compound manufacturer.

- (c) Remove excess polish by wiping with a clean lint-free wiper.

NOTE: To minimize scratches during subsequent polishing, clean surface between polish grades with solvent or soap / water. Wipe till dry and continue until the wiper is free of residue.

- (d) Polish surface with Nuvite C using an orbital polisher or cyclo-orbital polisher with a clean sweatshirt material (preferably 2 ft. x 3 ft. section) wrapped around the pads.

- (e) Continue to polish the surface until polish material starts to dry and surface begins to shine.

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- (f) Continue polishing the surface with Nuvite S using a cyclo-orbital polisher.
- (g) To obtain a final luster appearance hand polish in span direction using Nuvite S or Rolite AP-300 using sweat shirt material or clean terry cloth.
- (h) To maintain final luster appearance, routinely polish leading edge (bright work) with Nuvite S or Rolite AP300.

CAUTION: AFTER SURFACE IS POLISHED, AVOID DETERGENT OR SOLVENT WIPING WHICH CAN DAMAGE POLISH FILM.

(2) Recommendations for improved polish longevity:

- (a) Apply coat of Xzilon 3 Corrosion Inhibitor to slow down corrosion.
- (b) Avoid use of detergents that are highly alkaline or those that contain ammonia on polished metal.
- (c) Routinely hand dry surface to remove moisture or condensation. This will help to eliminate watermarks and remove dissolved minerals.

NOTE: Most dirt, debris and bugs on a properly polished surface can be removed by wiping with a clean rag and water. Detergents are normally not needed.

C. Follow On

- (1) Inspect for presence of foreign objects..
- (2) Record all maintenance actions in accordance with current governing authority.

Table 701: Approved Cleaning Solvents

APPROVED CLEANING SOLVENTS
Isopropyl alcohol per TT-I-735 or ASTM-D-H770
Aircraft cleaner per AMS1530
Mixture of 10% isopropyl alcohol and water

Table 702: Approved Polishing Compounds

APPROVED POLISHING COMPOUND	MANUFACTURER
AP-300	Rollite Company
NuShine II-G6 (quick cut)	Nuvite Chemical Compounds Corporation
NuShine II-F7 (heavy cut)	Nuvite Chemical Compounds Corporation
NuShine II-C (oxidation remover)	Nuvite Chemical Compounds Corporation
NuShine II-S (final finish)	Nuvite Chemical Compounds Corporation
Perfect-It III Extra Cut Rubbing Compound (#05936)	3M Corporation