

TITLE

REPAIR OF CORRODED SKINS - LEFT HAND  
WING CENTRAL SECTION

E.M. NO. 15569

ISSUE A

FILE CODE 111

111

Immediately

PART NO.	PART NAME	ISS.	DISTRIB.— A—ACTION B—INFORMATION
REASON FOR ISSUE	EXAMINED BY	CUSTOMERS ORDER NO.	TO
SALVAGE	AS NOTED		DESIGN
DOWNSHIP	CORROSION		A/O
STOP ORDER/RELEASE	REWORK		PROD.
NEW DRAWING	USE TO		EX. NO.
REVISED DRAWING	NOT AFFECTED		REWORK
VARIATION	REWORK		A/O PLANNING
OBsolete NOTICE	STRUTS		MANUF. "
USE AS NOTED	APPROVED		MATERIAL
	YES <input type="checkbox"/> NO <input type="checkbox"/>		A/O SUPT.
	INTERCHANGEABILITY		SALES/CONT.
	AFFECTED		INSPECTION
	YES <input type="checkbox"/> NO <input type="checkbox"/>		R.O.A.F.
APPROVALS	DATE		TEST FLIGHT
	24 Jan '68		DWG. CONTROL
GIVE FULL PARTICULARS AND SKETCH WHERE APPLICABLE	ENGINEERING		
	CONTRACTS ADMIN.		
	CUSTOMER		
	CUSTOMER		

CONDITION:

The upper skin panel ~~WELL~~ of ~~the~~ left hand wing centre section inboard of the engine nacelle to the trailing edge of the wing are badly corroded. Refer to Figure 1 for affected areas. (Reference TQP S/N 04103 dated 16 Jan 68).

SOLUTION:

FEB 2 P.M.

Clean and treat corroded areas in accordance with the following procedure:

- (1) Release the inboard skin panel as shown per Figure 1 sufficiently to permit treatment of overlapping areas of the skin panels.
- (2) Thoroughly clean all affected areas with ethyl acetate solvent.
- (3) Thoroughly clean all corroded areas with a 10% chromic acid wash applied by means of a stiff bristled brush (Plater's Brush).

NOTE: The 10% chromic acid wash is to be obtained from the Chemical Lab.

- (4) Thoroughly wash the treated areas with clean water (warm or cold) to remove all traces of corrosion.

NOTE: Water will form a continuous film on the affected surface if it is thoroughly clean. If not, reclean the affected area as per Para's 3 and 4.

- (5) Using clean cloths, apply a uniform coat of 10% chromic acid to all affected areas. Allow to dry, for approximately 1 hour.

- (6) Thoroughly remove all chromic acid from the skin surface with a damp cloth.

- (7) Reinstall the skin panel released per Para 1.

NOTE: Do not allow globules of acid solution to form on and dry on skin surfaces during treatment. (Ref Para 5).

# BRISTOL AEROSPACE LIMITED ENGINEERING MEMORANDUM

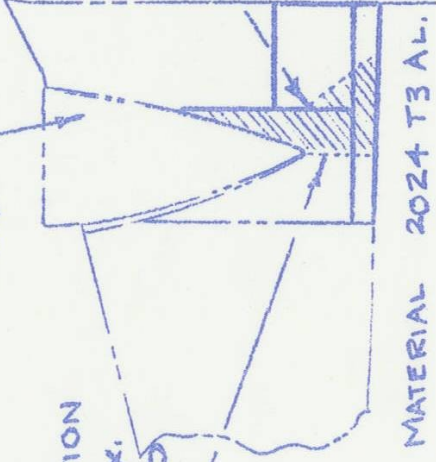
TITLE

REPAIR OF CORRODED SKINS - LEFT HAND WING  
CENTER SECTION

EM. No. 15569

ENGINE NACELLE  
(REF.)

SHADED PORTION  
SHOWS APPROX.  
AREA AFFECTED  
BY CORROSION



RELEASE SKIN PANEL  
ALONG THIS EDGE TO  
PERMIT TREATMENT  
OF PANELS IN  
OVERLAPPING AREAS.  
REINSTALL AFTER  
COMPLETION OF  
TREATMENT.

ENG. REF ONLY MATERIAL 2024 T3 AL. ALLOY

FIGURE 1 LH. WING & CENTER SECTION  
VIEWED FROM ABOVE