

RESTRICTED

AL No. 408
(Access Door to Pylon - Sealing
Improved)

AP 4781A, Vol 2
Leaflet No G 7

Gnat T Mk 1 Aircraft. Mainplane - To introduce Access Door
1820/1291A/1 (26DN/1496894) or 1820/1291A/1/UN (26DN/1496895)
in place and by conversion of 1820/1291A (26DN/8610) or 1820/
1291A/UN (26DN/8611)

(Mod No. Gnat/687)

(Class C/3)

(AB/A/23205:16.10.69)

1. INTRODUCTION

This modification introduces improved sealing of the access door on the upper surface of the wings, at the pylon mounting casting, to prevent water ingress and consequent corrosion on casting.

(1) This modification does not supersede, partially supersede or satisfy the work called for by any other Modification, Command Modification, STI, SI or SRIM.

(2) This modification is to be embodied in Gnat T185D aircraft Serial Nos. XM 705 to XM 709 (exclusive of XM 707) and XM 697).

2. EMBODIMENT

This modification is to be embodied as directed by Command Headquarters.

3. APPROXIMATE TIME REQUIRED FOR EMBODIMENT

The work will take approximately 3 man hours.

4. DRAWINGS REQUIRED

The following drawings are required and are to be demanded in accordance with AP 3158, Vol 2, Leaflet No. D7:

<u>Drawing No.</u>	<u>Title</u>
1820-1291A/1)	Access Door Assy
1820-1291A/1/UN)	
1820-985)	Assembly of Access Door at Pylon Mounting Casting
1820-985/UN)	

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5. PARTS AND SPECIAL TOOLS REQUIRED

(1) Parts and/or Materials

(a) The Modification Kit which consists of the following items will be assembled by No 16 Maintenance Unit under Ref No. 26DN/100687

(i) Items supplied by the Contractor:

<u>Ref No.</u>	<u>Part No.</u>	<u>Nomenclature</u>	<u>Qty</u>	<u>Class of Equipment</u>
26DN/1496896	1820-1291/1B	Seal	2	C
26DN/-	1820-1291/1C	Special Washer	2	C
26DN/-	1820-2641	Plug	2	C
26DN/-	AS 2811/4/ 027	Distance tube	2	C
28Q/5987	AS 161/410	Rivet, csk hd	2	C

All the above items will be issued on Issue Order to RAF Units at home and those overseas units on direct re-supply; no demands are to be submitted. Other RAF Units abroad and all other users are to demand separately their requirements of kits as listed in sub-para (a) above and additional items listed in sub-para (b) above, in accordance with current regulations; demands for additional items listed at sub-para (b) are to be endorsed "Required for use in conjunction with Mod No. Gnat/687 Ref No. 26DN/100687".

(b) The following materials are to be provided under Unit arrangements:

<u>Ref No.</u>	<u>Part No.</u>	<u>Nomenclature</u>	<u>Qty</u>	<u>Class of Equipment</u>
33H/9129434	-	Bostik 1410	As Req'd	C
34D/246	-	White Spirit	As Req'd	C

(2) Special Tools and/or Test Equipment

No special tools or test equipment are required for the embodiment of this modification.

6. MODIFICATION OF SPARES

The following list shows the spares affected by this modification and the parts required to modify them:

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<u>Ref No.</u>	<u>Part No.</u>	<u>Nomenclature</u>	<u>Qty</u>	<u>Class of Equipment</u>
26DN/8610	1820-1291A	Access Door Assy	1	C
26DN/8611	1820-1291A/UN	Access Door Assy	1	C
26DN/15837	1820-1291A/UN/ 592	Access Door Assy	1	C
26DN/1483713	1807-19/13	Main Plane (Spares Standard)	1	A
26DN/1483714	1807-19/UN/13	Main Plane (Spares Standard)	1	A

Parts required:

26DN/1496896	1820-1291/1B	Seal	1	} 2 off each for Main Planes.
26DN/-	1820-1291/1C	Special Washer	1	
28Q/5987	AS 161/410	Rivet, csk hd	1	
26DN/-	1820-2641	Plug	1	
26DN/-	AS 2811/4/027	Distance tube	1	

Spares will be modified by No 16 Maintenance Unit and RAF Units.

7. CHANGE OF REFERENCE, PART AND ASSEMBLY NUMBERS

The embodiment of this modification changes Reference, Part and Assembly Numbers as follows:

<u>Ref No.</u>	<u>OLD</u> <u>Part/Assy</u> <u>No.</u>	<u>Nomenclature</u>	<u>Ref No.</u>	<u>NEW</u> <u>Part/Assy</u> <u>No.</u>
26DN/8610	1820-1291A	Access Door Assy	26DN/1496894	1820-1291A/1
26DN/8611	1820-1291A/ UN	Access Door Assy	26DN/1496895	1820-1291A/1/ UN
26DN/5752	1820-987/ND	Seal	26DN/1496896	1820-1291/1B
26DN/15837	1820-1291A/ UN/592	Access Door Assy	26DN/1496895	1820-1291A/1/ UN
26DN/1483713	1807-19/13	Main Plane (Spares Standard)	26DN/1496897	1807-19/14
26DN/1483714	1807-19/UN/13	Main Plane (Spares Standard)	26DN/1496898	1807-19/UN/ 14

8. SEQUENCE OF OPERATIONS

The following is the sequence of operations:

Note: Before any electrical circuit is disturbed or disconnected, all electrical power supplies in, to or from the aircraft are to be disconnected. Power supplies are to be reconnected only when the person responsible for embodying or inspecting the modification is satisfied that all action has been taken to make the aircraft safe for reconnection.

- (1) Locate the access doors (Part Nos. 1820-1291A or UN) situated on the upper surface of the wings above the pylon mounting casting, port and starboard.
- (2) Remove bolts (Part Nos. A 173-4D or AS 3297-4C), port and starboard, as shown on drawing No. 1820-985 & UN.
- (3) Disconnect doors from tags on castings, port and starboard. (See drawing No. 1820-985 & UN).
- (4) Drill out the rivet (Part No. AS 161/405) securing tag to centre of doors. Retain doors and tags.
- (5) Remove the rubber seals (Part No. 1820-987) from access doors (Part Nos. 1820-983 or UN) and discard seals.
- (6) Clean off faces of doors with solvent (Ref No. 34D/246).
- (7) Assemble new seals (Part No. 1820-1201/1B) to doors using Bostik 1410, as shown on Drawing No. 1820-1291A/1 & /UN.
- (8) Assemble plugs (Part No. 1820-2641), distance tubes (Part No. AS 2811/4/027), special washers (Part No. 1820-1291/1C) and existing tags to doors using rivets (Part No. AS 161/410), as shown on Drawing No. 1820-1291A/1 & /UN.
- (9) Reconnect doors to tags on castings, port and starboard and refit using bolts removed at Operation (2).
- (10) Restore finish to existing scheme.
- (11) When this modification has been embodied and inspected record Mod No. Gnat 687 on the Modification Plate situated on the port side of the Mainplane, on the underside of the Flap Shroud.

9. SPECIAL TESTS AFTER EMBODIMENT

No special tests are required after the embodiment of this modification, but any other appropriate and associated testing is to be carried out.

10. RECORDING ACTION

When this modification has been embodied and inspected in accordance with current authorised procedure, the relevant entries are to be made in the appropriate aircraft records.

11. DISPOSAL OF REDUNDANT PARTS

The undermentioned parts rendered redundant by the embodiment of this modification are to be disposed of as scrap in accordance with AP 830, Vol 1 (5th edition), Leaflet No. A 19/1:

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<u>Ref No.</u>	<u>Part No.</u>	<u>Nomenclature</u>	<u>Qty</u>	<u>Class of Equipment</u>
26DN/5752	1820-987ND	Seal	1	C

12. EFFECT ON WEIGHT AND MOMENT

Embodiment of this modification has no effect on weight or moment.

13. EFFECT ON AIRCRAFT OR EQUIPMENT OPERATION AND HANDLING

This modification does not affect the operation or handling of the aircraft or equipment.

14. EFFECT ON SERVICING AND ON GROUND SUPPORT EQUIPMENT

Embodiment of this modification offers a servicing easement by prevention of moisture ingress to the pylon casting, but does not alter the requirements of SI/Gnat 21.

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