

Nomad


SERVICE BULLETIN

SUBJECT: REVISION OF MAXIMUM CONTINUOUS POWER TURBINE
OUTLET TEMPERATURE

1. Planning Information

A. Effectivity

(1) Aircraft Affected

All Nomad N22B Aircraft whose log books do not already record the installation of Customer Option G468 or compliance with Service Bulletin NMD-77-1 or Service Bulletin NMD-77-1 Revision 1.

- NOTE
1. Nomad N22 Aircraft not affected as this model aircraft was delivered with Allison 250-B17 engines to which the TOT limit of this Service Bulletin are not applicable.
 2. If Model N22 aircraft have been fitted with Allison 250-B17B/B17C engines or have had their original engines modified to B17B/B17C standard, GAF Product Support should be advised.

(2) Spares Affected

Turbine Outlet Temperature Indicators P/N 11/N-80-89. The above indicators held as spares are to be reworked in accordance with Para 2 Part B of this Service Bulletin.

B. Reason

To make instrument markings agree with actual engine limits which have been uprated subsequent to original certification.

C. Description

- (1) A temporary placard is displayed adjacent to the TOT indicators on the engine instrument panel.
- (2) A temporary external blue line is attached to the TOT indicators glass.
- (3) TOT indicators P/N 11/N-80-89 are to be reworked at the next opportunity to delete the blue radial marking at 779^oC and apply a blue radial marking at 810^oC.

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D. Compliance

(1) Temporary Aircraft Placard

- (a) The temporary aircraft placard is to be attached on the LH instrument panel, adjacent to the TOT indicators on the engine instrument panel at the next 100 hour service after receipt of this Service Bulletin.
- (b) The temporary external blue line is to be attached to the TOT indicators glass at the same time as (1) (a) above is carried out.

(2) TOT indicators P/N 11/N-80-89 are to be reworked to incorporate the new markings at the next repair or overhaul.

NOTE: For N22B aircraft using 12.28F Flight Manual compliance with Para 2 Part B of this Service Bulletin was mandatory as from 30th March, 1981.

E. Approval

The procedures detailed herein have been approved pursuant to Air Navigation Regulation 40 and conforms to the type certificate requirements.

F. Manpower

- (1) Temporary Aircraft Placard - 1 manhour
- (2) Replacement of TOT indicators - 2 manhours.

G. Material, Price and Availability

Para 2 Part A - Placards to be manufactured locally (Ref Para 2.A).
Para 2 Part B - Replacement and rework of the TOT indicators. (Ref Para 2.B).

H. Tooling, Price and Availability

Nil required

J. Weight and Balance

Nil change

K. References

- MM - Maintenance Manual
- IPC - Illustrated Parts Catalogue
- FM - 12.28F Flight Manual and 12.28B-3 Flight Manual

L. Publications Affected

MM, IPC, WDM and FM (12.28F and 12.28B-3).

2. Accomplishment Instructions

A. Temporary Aircraft Placard

- (1) The temporary placard (Ref Figure 1) is to be locally made from suitable materials, e.g. thin white card and Letraset 12 Point Grotisque 216 Sheet 208 lettering, or embossing tape (Dymo or equivalent). Use template (Ref Figure 2) on Page 5 to assist in making the placard.
- (2) Attach the placard, using a contact adhesive to the LH instrument panel. The placard is to be located adjacent to the TOT indicators on the engine instrument panel.

CAUTION: THE BLUE LINE MUST NOT BE PLACED OVER THE RED LIMIT MARKING AT THE 810°C POSITION (REFER FIGURE 3).

- (3) Attach blue line at 810°C on the TOT indicators glass.

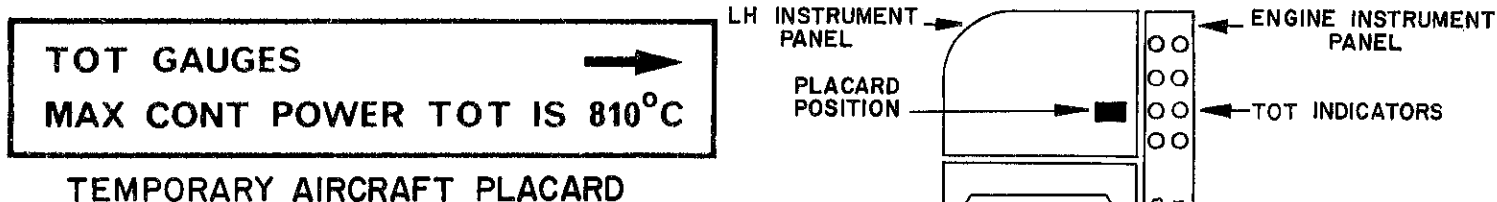


FIGURE 1

B. Replacement and Rework of TOT Indicators P/N 11/N-80-89

- (1) Remove the two TOT indicators P/N 11/N-80-89 from the engine instrument panel (Ref MM 77-00-00).
- (2) Install the replacement TOT indicators P/N 201/N-80-497 or reworked indicators P/N 201/N-80-497/NMD-77-1 (Ref step (5)) into the engine instrument panel (Ref MM 77-00-00).
- (3) Test the newly installed TOT indicators (Ref MM 77-20-00).
- (4) Remove the temporary aircraft placard (Ref Para 2A) from the LH instrument panel.
- (5) The TOT indicators removed at step (1) and spare TOT indicators P/N 11/N-80-89 are to be reworked as follows in an approved instrument workshop
 - a. Remove indicator bezel, glass and sealing washer (Ref manufacturer's data). Remove external blue limit line from glass.

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- b. Delete the blue radial limit marking at the 779°C position on the indicator dial by painting with instrument matt black paint or suitable equivalent.
- c. Restore full coverage of yellow band with yellow paint to Federal Standard 595 Colour No. 38907 where blue radial marking existed.
- d. Paint new blue radial at the 810°C position on indicator dial as shown on Figure 3.

NOTE: 1. No Federal Standard 595 Colour No. is listed but a blue matt fluorescent similar to Colour No. 15180 is suitable.

2. Paints used in steps c. and d. need not be precisely those defined, but should closely approximate with those quoted, be fluorescent and easily visible.

- e. Refit indicator glass, sealing washer and bezel to indicator (Reference manufacturer's data).
- f. Test the indicator as per manufacturer's test data.
- g. After satisfactory test has been completed, re-identify the indicator on the outside of indicator case with Part Number 201/N-80-497/NMD-77-1.
- h. Prepare spare indicators for storage and return to stores.

3. Material Information

A. Parts Required per Aircraft

(1) Temporary Aircraft Placard (Local Manufacture)

<u>Part Number</u>	<u>Title</u>	<u>Qty</u>
12 Point Grottesque 216 Sheet 2	Letraset Lettering	1 Sheet
-	Alt. Embossing Tape (Dymo or equivalent)	A/R
-	Contact Adhesive	A/R

(2) Replacement TOT Indicators

<u>Part Number</u>	<u>Title</u>	<u>Qty</u>
201/N-80-497	TOT Indicator	2

B. Parts Required to Modify Spares

Nil

C. Removed Parts

<u>Part Number</u>	<u>Title</u>	<u>Qty</u>	<u>Recommended Disposition</u>
11/N-80-89	TOT Indicator	2	Return to an approved workshop for rework (Ref Para 2B).

D. Special Tools and Equipment Required

Nil

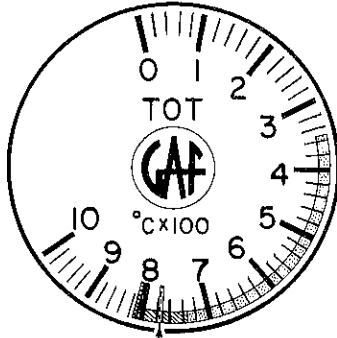
4. Recording Action

Record compliance with Service Bulletin NMD-77-1 Revision 1 in the airframe Log Book.

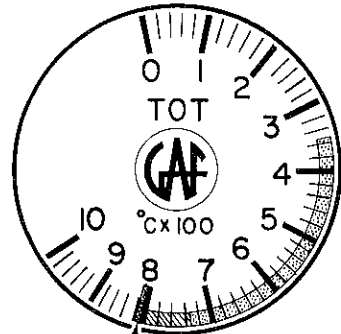
NOTE: This Service Bulletin covers the intent of Customer Option G468.



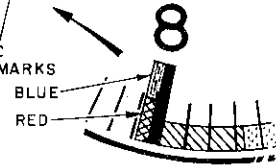
TEMPORARY AIRCRAFT PLACARD TEMPLATE
FIGURE 2



DELETE BLUE LINE AT 779°C



RED AND BLUE LINE AT 810°C
SAME SIZE AS EXISTING 100 MARKS



Rework of TOT Indicator
Figure 3