

FS/1

Chapter 5 ALIGHTING GEAR

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General

1. To cater for the increased design landing weight of this aircraft, the alighting gear incorporates the following modifications:-

- (1) Undercarriage units having strengthened main fittings, shock absorbers, wheel forks, shortening mechanisms and axles are introduced by Mod 1166.
- (2) Associated strengthening of the undercarriage mounting structure is introduced by Mod 1158.
- (3) Strengthened main wheels, manufactured from aluminium alloy in lieu of magnesium alloy, are introduced by Mod 1169.

- (4) A nose wheel unit having a strengthened shock absorber and a longer wheel fork to increase wheel travel is introduced by Mod 1167.

1A. On embodiment of Mod 1767, bulkhead front and rear spar frame legs manufactured from steel are introduced as replacements for the original alloy items.

2. The foregoing modifications do not affect the principle of operation of the alighting gear and a comprehensive description of the undercarriage and nose wheel units, including servicing information, is in A.P. 104B-2003-16 and A.P. 104C-2003-16 respectively. With the exception of the nose wheel unit shock absorber charge pressure which is increased to 2800 p.s.i. \pm 50 p.s.i. and different deflection curves (fig.1), all the information in A.P. 101B-1202-1A, Cover 2, Sect. 3, Chap. 5, including the procedures for removal, installation and adjustment after installation, is equally applicable to the strengthened units.

Servicing

3. As Mod 1166 introduces a revised packing plate between the undercarriage down-lock housing and rib 56, and it is possible to install a pre-Mod 1166 undercarriage unit if a strengthened unit is not available, care should be taken when setting the undercarriage locked-down attitude to ensure that the correct type of packing plate is fitted as follows:-

- (1) If a pre-Mod 1166 undercarriage unit is fitted, ensure that a packing plate, Part No. YB6-21-335 (0.45 in. thick), is fitted to rib 56.
- (2) If a post-Mod 1166 undercarriage unit is fitted, ensure that a packing plate, Part No. YB6-21-340 (0.2 in. thick), is fitted to rib 56.

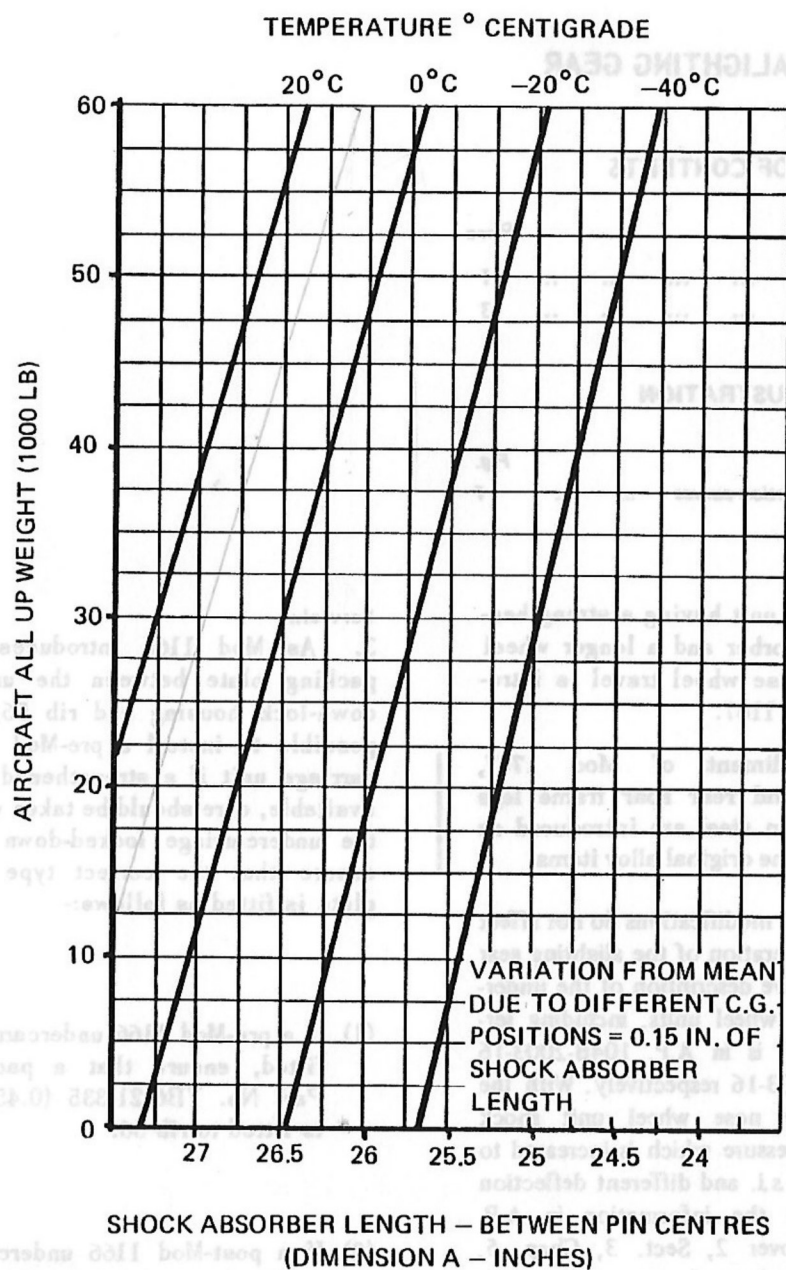


Fig.1 Nose wheel unit deflection curves

