

Chapter 5 GUN SIGHT ALIGNMENT

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Introduction

1. Detailed information on the gyro sight installation is given in Sect.5, Chap.2, Group 4A. To ensure correct orientation of the sight with the aircraft, the alignment procedure described in this chapter must be carried out.

Equipment required

2. The following equipment will be required for sight alignment:—

- (1) Universal alignment stand or locally manufactured alignment diagram.
- (2) Gun aligning equipment and box (Ref. No.26FX/95729).
- (3) Alignment sight bars (Ref. No.26FX/95161 – front sight and 26FX/95162 – rear sight).
- (4) Spanner, 4 BA.

Preparation

3. The aircraft is prepared for the alignment procedure as follows:—

- (1) Set up the alignment stand or diagram as shown in fig.1.
- (2) Remove the gun/bomb pack and the outer gun blast tube panels and blanking plates.

- (3) Fit the alignment sight bars across the gun pack compartment and secure them to the gun pack securing spigots, using the pip pins provided.
- (4) Position the aircraft with the centres of the main wheels on a base line which is parallel to the alignment diagram and at a distance of 1000 inches from it. Chock the main wheels.
- (5) Jack the aircraft in accordance with the jacking and trestling instructions. (Sect.2, Chap.4).
- (6) Sight through the alignment sight bars and adjust the alignment diagram and/or aircraft until the sights are aligned with their respective spots on the diagram. This will ensure that the datum line and centre line of the diagram are coincident with the datum line and centre line of the aircraft.

Alignment of gyro sight

4. The gyro sight should be aligned as follows:—

- (1) The sight should first be run for one minute and then the supply voltage to the sight head should be checked for correctness.

Note . . .

It is important that the gyro should not be run for excessively long periods whilst the aircraft is grounded. Five minutes should be regarded as a reasonable running period.

- (2) Select GYRO and RP and set the range control drum to 200 yards.
- (3) Slacken the sight securing nut sufficiently to allow the sight head to be rotated under slight pressure.
- (4) Adjust the sight, laterally, by rotating the head about its spigot until the gyro image is aligned laterally with the RP sighting disc. Tighten the securing nut and recheck alignment.
- (5) Using a 4 BA spanner, unlock the two locknuts on the sight screen adjusting screws and adjust the screen to bring the gyro image, vertically, onto its sighting disc. Tighten the adjusting screw lock nuts and recheck alignment.
- (6) Set the selector to FIXED.
- (7) Bring the image of the fixed graticule onto its sighting disc by turning the two flexible adjusters at the back of the sight body.

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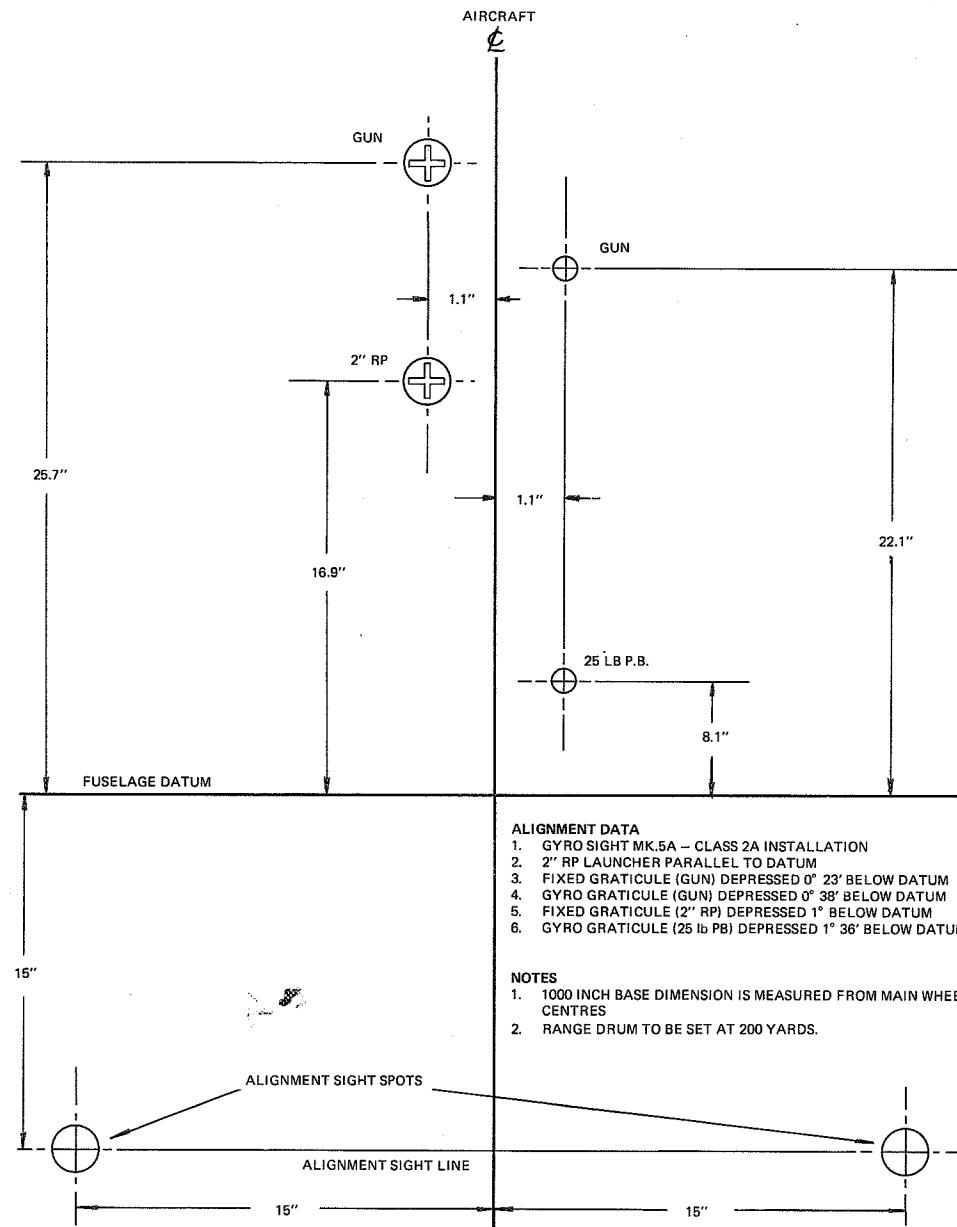


Fig. 1 Gun sight alignment diagram

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