

GROUP 3.C

MECHANICALLY OPERATED INSTRUMENTS

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Introduction

1. This group contains a description of the aircraft's mechanically-operated flying instruments. For a general description of the instrument installation, reference should be made to Group 1.A. The location and access to all the instruments and their associated equipment is given in Group 1.C. Detailed information on the standard components used will be found in the appropriate Air Publications listed in Table 1.

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DESCRIPTION

Equipment details

Standby compass

2. A standby compass, for use if the Gyro compass installation (Group 3.B) fails, is attached to the retractable gun sight mounting.

Accelerometer

3. The accelerometer which is located on the starboard arch panel to the right of the gun sight, gives visual indication of the acceleration forces imposed on the aircraft's structure during flight in the direction of the aircraft's Z axis i.e. upwards and downwards along the line of flight. The indications of positive or negative 'g' forces are given by three

concentrically mounted pointers moving over a common scale. One pointer indicates instantaneous accelerations in both directions and the other two record the maximum plus and minus readings and remain at those readings until they are reset manually through the mechanism provided. A transit lock, operated by a knob at the rear of the instrument, is provided to lock the mechanism during transit and this must be turned to 'unlock' when the instrument is installed. The instrument is not shock-absorber mounted as this would have a damping effect on the operating mechanism.

Clock

4. Provision is made, on the centre instrument panel for the installation of a clock which is supplied by the Services.

SERVICING

General

5. The necessary servicing to maintain the instruments in an efficient condition and the standard serviceability tests which should be applied, together with the equipment to be used and the method of conducting the tests is contained in the appropriate Air Publications quoted in Table 1.

REMOVAL AND ASSEMBLY

General

6. The removal of the instrument panels carrying the flying instruments is described in Group 1.B. Once access has been obtained, the removal of the instruments from the panels should present no difficulty.

TABLE I

Equipment type and Air Publication reference

Equipment	Air Publication
Standby compass, Type E.2A A.P.1275B, Vol.1, Sect.10
Accelerometer, Mk.2 A.P.1275A, Vol.1, Sect.12
Clock A.P.1275A, Vol.1, Sect.19

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