

Chapter 3A AIRCRAFT WEIGHING, USING HYDROSTATIC UNITS

General

1. General information on the practical measurement of Basic Weight and Moments is given in A.P.1464D, Vol. 1, Pt. 2, Sect. 1, Chap. 3. Descriptions of hydrostatic units and instructions for their use are given in A.P.1464G, Vol. 1, Pt 2, Sect. 5, Chap. 7.

Equipment required

2. The items listed below will be required for weighing the aircraft.

Item	Ref. No. (Nose jack position)	Ref. No. (Underwing jack positions)
25-ton H.W.U.	4GB/4895 (1 off)	4GB/4895 (2 off)
25-ton jack	4Q/2624 (1 off)	4Q/2610 (2 off)
Adapters:—		
Jack to unit	4GB/5050 (1 off)	4GB/5051 (2 off)
Unit to air- craft pad	4GB/5060 (1 off)	4GB/5060 (2 off)
Additional pad	26SR/95003 (1 off)	26SR/95081 (2 off)

Weighing the aircraft

3. Proceed as follows:—

(1) Position the aircraft on a level site inside a closed hangar and check that all items comprising the Basic Weight are fitted in the aircraft.

(2) Note the load condition of the aircraft in respect of fuel, oil, de-icing fluid, ballast and other equipment.

(3) Check that the lifting jacks are truly vertical.

(4) Ensure that the wheel brakes are OFF.

(5) If the aircraft is in a nose-down attitude, position the nose jack complete with weighing unit and adapter, and jack at this point until the aircraft is longitudinally level. Alternatively, if the aircraft is in a tail-down attitude, position the port and starboard underwing jacks complete with weighing units and adapters, and jack at these points until the aircraft is level longitudinally and transversely.

(6) Measure and record the following:—

(a) Distance between Datum Point and nose jacking point.

(b) Distance between the underwing jacking points.

(7) Position the jack(s) complete with weighing unit(s) and adapter(s) at the other lifting position(s), and adjust until the load is being taken at the appropriate point(s) without disturbing the aircraft level.

(8) Remove the rigging equipment.

(9) Operating the three jacks simultaneously, slowly and evenly, raise the aircraft so that the wheels are just clear of the ground when the weighing units are taking the aircraft weight.

(10) Lightly tap the weighing unit dials and note the readings.

(11) Lower the aircraft slowly to the ground, again operating the jacks simultaneously and evenly. Remove the weighing units and stow them in the transit cases.

(12) Clear the jacks from the aircraft.

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