A.P. 1275A Vol. 4 Pt. 6 Sect. 11 Chap. 1

SWITCH, ALTITUDE TYPE FDQ/A/400 Ref. No. 5C/4066

EQUIPMENT REQUIRED

Chamber, test, Bar Jar Complete.

Vacuum Chamber Mark 6.

Control Panel.
Vacuum Indicator Mark 2A.
Lamp, Warning Type 'B'.
Tester, Insulation Resistance, Type 'C', 250
volt.
Tester, Bonding, Type 'A'.
Accumulator, Alkaline, Type 'N' for use with
Tester, Bonding.

Allen Screw Key, 2 B.A.

Varnish, Air Label.

Vacuum and Pressure Supply. 12 volt D.C. Supply.

Nil.

PUBLICATIONS

A.P. 1275A Vol. 1 Sect. 11 Chap. 2. A.P. 1275A Vol. 1 Sect. 11 Chap. 2 Appx. 1 and

SWITCH, ALTITUDE TYPE FDQ/A/400

ICING NOTES

inder no circumstances must a depression equivalent to 45,000 feet be exceeded when testing.

During the tests given below the rate of change of pressure must not exceed that equivalent to an altitude change of 3,000 feet/minutes.

The instrument is calibrated to the I.C.A.N. Law.

Any authorised change of settings is to be carried out as detailed under 'Rectification'.

ITEM

OPERATION

inspection.

(A) Remove switch from the mounting bracket.

(B) Remove the switch cover.

- (C) Inspect the bracket, cover and switch mechanism for damage and corrosion.
- (D) Inspect the neoprene sealing rings and anti-vibration mountings for deterioration.
- (E) Inspect bonding strips for damage.

(F) Check all nuts and screws of the instrument mechanism for tightness.

(G) Check that the safety switch situated adjacent to the bellows is not tripped, i.e. the spring contact is not resting on the lower stop. Should it be tripped press the 'C' spring towards the bellows and note that switch resets.

Insulation Test.

(A) Measure the insulation resistance between all breeze plug pins and the base casting, and between pins 'B' and 'D' of the breeze plug. The readings must not be less than 20 megohms.

Test Equipment Assembly.

- (A) Connect the test equipment as shown in figure 1 if using the bell-jar, or as in figure 2 if the vacuum chamber Mark 6 and control panel are available.
- (B) Place the switch in the test chamber and connect the pins 'B' and 'D' of the plug connection of the switch to the test chamber as shown in figure 1 or figure 2.

(C) Level the vacuum indicator.

- (D) Align main scale zero of the vacuum indicator with the junction of the two balls.
- (E) Align 1013.2 millibars on the auxiliary scale (ALTINETER) with the main scale zero.
- (F) Algin main scale zero to the prevailing barometric pressure in millibars (Q.F.S.) on the auxiliary scale.

Sheet No.4.

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SWITCH, ALTITUDE, TYPE FDQ/A/400

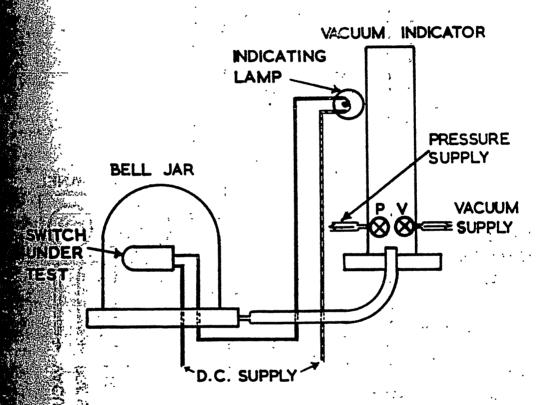


FIG.I.

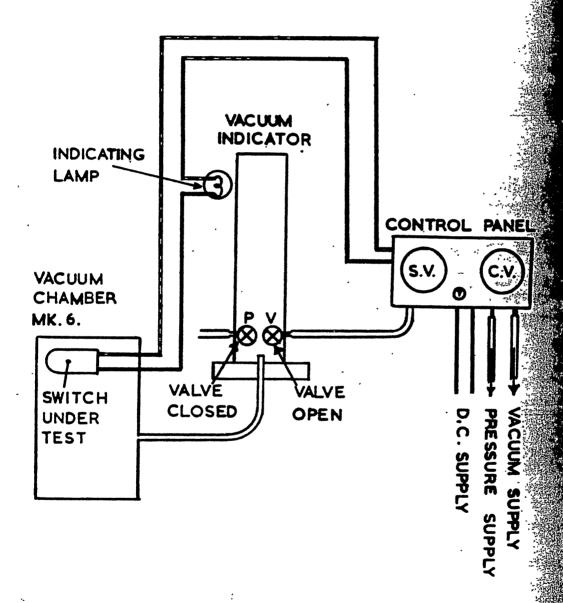


FIG.2.