The torque required to rotate the bellcrank at a supply pressure of 206 bar (2985.5 psi) should not exceed the values given in table II (see "Fits and Clearances", para. 3.).

(b) Checking the potentiometer

<u>1</u>   Resistance of tracks

Check that the resistance values between terminals D and F, on the one hand, and J and G (variable bellcrank P/N 106043-15) or A and C (variable bellcranks P/N 106043-19, 106043-20 and 106043-28), on the other hand, are respectively :

3600 ± 180 ohms (variable bellcrank P/N 106043-15),

2800 ± 140 ohms (variable bellcranks P/N 106043-19 and 106043-20),

2000 ± 100 ohms (variable bellcrank P/N 106043-28).

<u>2</u>   Potentiometer setting

Apply a voltage V of 10 ± 0.01 V D.C. between potentiometer terminals F and D, on the one hand, and J and G (variable bellcrank P/N 106043-15) or A and C (variable bellcranks P/N 106043-19, 106043-20 and 106043-28), on the other hand.

<u>a</u>   Low ratio position

On the one hand, check that the voltage between terminals A and B (variable bellcranks P/N 106043-19, 106043-20 and 106043-28) or D and E (variable bellcrank P/N 106043-15) is :

720 $\pm^{115}_{120}$ mV (variable bellcrank P/N 106043-15),

1000 ± 20 mV (variable bellcrank P/N 106043-19),

2000 ± 40 mV (variable bellcrank P/N 106043-20),

600 ± 20 mV (variable bellcrank P/N 106043-28).

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N

On the other hand, check that the voltage between terminals G and H (variable bellcrank P/N 106043-15) or D and E (variable bellcranks P/N 106043-19, 106043-20 and 106043-28) is :

$720 \pm \frac{15}{20}$ mV (variable bellcrank P/N 106043-15),

1000 ± 120 mV (variable bellcrank P/N 106043-19),

2000 ± 140 mV (variable bellcrank P/N 106043-20),

600 ± 120 mV (variable bellcrank P/N 106043-28).

b   Checking the first slope

By increasing the indicated airspeed, check that for an airspeed of 190 knots (variable bellcrank P/N 106043-15), 265 knots (variable bellcrank P/N 106043-19), 240 knots (variable bellcrank P/N 106043-20) or 250 knots (variable bellcrank P/N 106043-28), the voltage between terminals G and H (variable bellcrank P/N 106043-15), D and E (variable bellcranks P/N 106043-19 and 106043-20) or A and B (variable bellcrank P/N 106043-28) of the electrical connector is between :

2.44 and 3.08 V D.C.
(variable bellcrank P/N 106043-15),

5.91 and 7.04 V D.C.
(variable bellcrank P/N 106043-19),

4.62 and 5.44 V D.C.
(variable bellcrank P/N 106043-20),

4.85 and 5.95 V D.C.
(variable bellcrank P/N 106043-28).

c   High ratio position

On the one hand, check that the voltage between terminals D and E (variable bellcrank P/N 106043-15), A and B (variable bellcranks P/N 106043-19, 106043-20 and 106043-28) is between :

N

7.95 and 8.6 V D.C.
(variable bellcrank P/N 106043-15),

9.26 and 9.88 V D.C.
(variable bellcrank P/N 106043-19),

8 and 8.60 V D.C.
(variable bellcrank P/N 106043-20),

9.16 and 9.64 V D.C.
(variable bellcrank P/N 106043-28).

On the other hand, check that the voltage between terminals G and H (variable bellcrank P/N 106043-15), D and E (variable bellcranks P/N 106043-19, 106043-20 and 106043-28) is between :

8.05 and 8.30 V D.C.
(variable bellcrank P/N 106043-15),

9.16 and 9.98 V D.C.
(variable bellcrank P/N 106043-19),

7.90 and 8.70 V D.C.
(variable bellcrank P/N 106043-20),

9.06 and 9.74 V D.C.
(variable bellcrank P/N 106043-28).

<u>3</u>   Continuity

Under the same supply conditions as previously (see para. 3. B. (1) (a)), check that the voltage between, terminals D and E, on the one hand, and A and B, on the other, increases without discontinuity when moving from the low ratio position to the high ratio position.

(c) Checking the microswitches (variable bellcrank P/N 106043-15)

By increasing the IAS, check that for a value of 205 ± 10 knots (temperature between 25°C (77°F) and 35°C (95°F)), the following switching operations occur :

- break between terminals A and B,

- continuity between terminals B and C.