

## FLAPS - ADJUSTMENT/TEST

*EFFECTIVITY: ALL*

### 1. General

- A. This section gives the procedures to measure the deflections of the inboard and outboard flaps and the actuation times for normal flap settings.
- B. The procedures in this section are given in the sequence below. The tasks identified with (◆) are part of the Scheduled Maintenance Requirements Document (SMRD).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
<a href="#">27-50-00-700-801-A</a>	INBOARD AND OUTBOARD FLAPS - DEFLECTIONS	ALL

TASK 27-50-00-700-801-A

EFFECTIVITY: ALL

## 2. INBOARD AND OUTBOARD FLAPS - DEFLECTIONS

### A. General

- (1) This task gives the procedures to measure the deflections of the inboard and outboard flaps and the actuation times for normal flap settings.

### B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 20-40-01-860-801-A/200</a>	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
<a href="#">S.B.145-27-0042</a>	-

### C. Zones and Accesses

Not Applicable

### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
<a href="#">GSE 044</a>	Head Set	For communications	
<a href="#">GSE 070</a>	Digital Protractor	To measure the deflections	
Commercially available	Stopwatch	To measure the time	

### E. Auxiliary Items

Not Applicable

### F. Consumable Materials

Not Applicable

### G. Expandable Parts

Not Applicable

### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Cockpit
1	Does the task	Wing

### I. Preparation

#### SUBTASK 841-002-A

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Energize the aircraft with the External DC Power Supply ( [AMM TASK 20-40-01-860-801-A/200](#) ).
- (3) Make sure that the flaps are in the zero-degree position.

- (4) Install the digital protractor on the inboard flap and the outboard flap.
- (5) Set the digital protractor to zero.

J. Deflections of the Inboard and Outboard Flaps (Figure 501)

SUBTASK 720-002-A

**WARNING: MAKE SURE THAT THERE ARE NO PERSONS OR EQUIPMENT IN THE FLAP TRAVEL AREA.**

- (1) Measure the deflections for zero-, 9-, 18-, 22-, and 45-degree position on the inboard and outboard flaps of the left and right wings. See Figure 501.
  - The inboard and outboard flap deflections are shown in table 501.

Table 501 - FLAP DEFLECTIONS

FLAP POSITION <sup>[1]</sup>			INBOARD FLAP DEFLECTION (degrees)	OUTBOARD FLAP DEFLECTION (degrees)
A	zero degrees	maximum	+0.10	+0.10
		nominal	0.00	0.00
		minimum	-0.10	-0.10
B	9 degrees	maximum	9.98	8.30
		nominal	9.18	7.50
		minimum	8.38	6.70
C	18 degrees <sup>[2]</sup>	maximum	19.16	15.87
		nominal	18.16	14.87
		minimum	17.16	13.87
D	22 degrees	maximum	23.37	19.85
		nominal	22.37	18.85
		minimum	21.37	17.85
E	45 degrees	maximum	46.63	46.50
		nominal	45.13	45.00
		minimum	43.63	43.50

[1] Figure 501 shows the flap positions.

[2] Only to ACFT POST-MOD. S.B.145-27-0042 or ACFT EQUIPPED WITH FLAP 18-DEGREE.

Table 502 - ACTUATION TIME FOR NORMAL FLAP SETTINGS

Normal Flap Setting <sup>[1]</sup>	Actuation Time (seconds)		
	Minimum	Nominal	Maximum
from 0 to 9 from 9 to 0	9.8	10.9	11.9
from 9 to 18 from 18 to 9	6.3	7.2	8.2
from 9 to 22 from 22 to 9	8.2	9.1	10.1

[1] Only to ACFT POST-MOD. S.B.145-27-0042 or ACFT EQUIPPED WITH FLAP 18-DEGREE.

Table 502 - ACTUATION TIME FOR NORMAL FLAP SETTINGS (Continued)

Normal Flap Setting <sup>[1]</sup>	Actuation Time (seconds)		
	Minimum	Nominal	Maximum
from 18 to 22 from 22 to 18	2.1	3.1	4.1
from 0 to 22 from 22 to 0	18.0	20.0	22.0
from 22 to 45 from 45 to 22	9.0	10.0	11.0
from 0 to 45 from 45 to 0	27.0	30.0	33.0

[1] Only to ACFT POST-MOD. [S.B.145-27-0042](#) or ACFT EQUIPPED WITH FLAP 18-DEGREE.

K. Follow-on

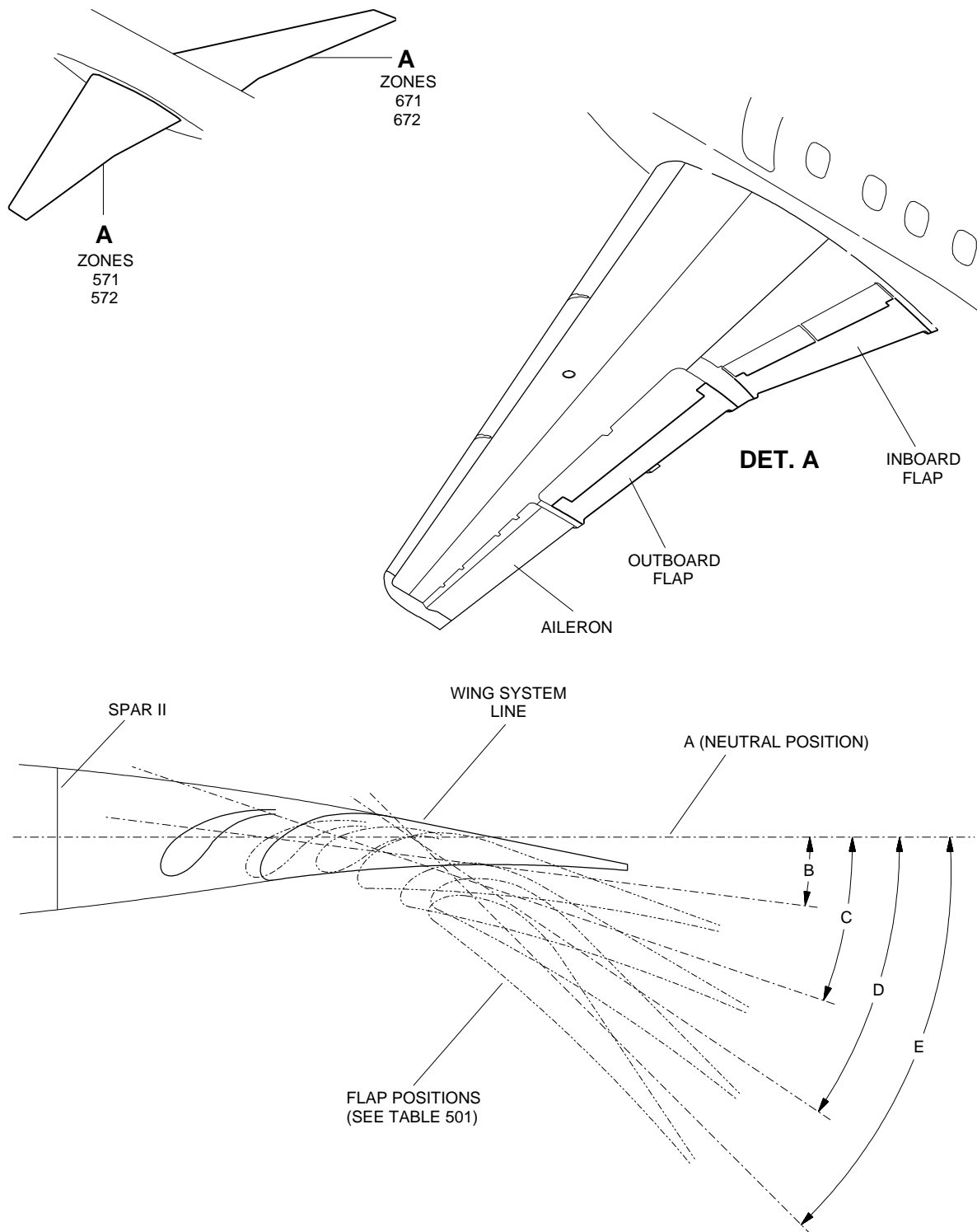
*SUBTASK 842-002-A*

- (1) Remove the digital protractor from the inboard and outboard flaps.
- (2) Set the flaps to the 0-degree position.
- (3) Deenergize the aircraft ( [AMM TASK 20-40-01-860-801-A/200](#) ).

EFFECTIVITY: ALL

Inboard and Outboard Flaps - Location

Figure 501



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