

## GASPER SHUTOFF VALVE - ADJUSTMENT/TEST

*EFFECTIVITY: ACFT MODEL(S) EMB-135*

### 1. General

- A. This section gives the procedures to do the adjustment of the OPEN/CLOSED positions of the gasper shutoff valve.
- B. The gasper shutoff valve is adjusted on a bench.
- C. 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
21-23-01-800-802-A	GASPER SHUTOFF VALVE - ADJUST- MENT	ACFT MODEL(S) EMB-135

TASK 21-23-01-800-802-A

EFFECTIVITY: ACFT MODEL(S) EMB-135

## 2. GASPER SHUTOFF VALVE - ADJUSTMENT

### A. General

- (1) To adjust the gasper shutoff valve, you must correct the positions of its microswitches in relation to the cam of the electrical motor.

### B. References

REFERENCE	DESIGNATION
AMM TASK 21-23-01-000-802-A/400	-
AMM TASK 21-23-01-400-802-A/400	-

### C. Zones and Accesses

Not Applicable

### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	DC power supply, 28 V/50 A	To operate the electrical motor of the gasper shutoff valve	

### 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	Bench

### I. Preparation

#### *SUBTASK 841-009-A*

- (1) Remove the gasper shutoff valve from the aircraft (AMM TASK 21-23-01-000-802-A/400).
- (2) Loosen the four screws that attach the two microswitches (S1 and S2) ([Figure 501](#)).

### J. Adjustment ([Figure 501](#))

#### *SUBTASK 820-009-A*

- (1) Adjust the closed position of the gasper shutoff valve. For this, do the steps below:

- (a) Connect the positive (+) wire of the electrical power supply to pin A of the electrical connector.
  - (b) Connect the negative (-) wire of the electrical power supply to pin B of the electrical connector.
  - (c) Monitor the travel of the mark in the end of the motor shaft (refer to view D).
  - (d) Stop the power supply to pin A immediately, when the mark comes to the letter C on the bottom of the gasper shutoff valve.
  - (e) Slowly move the support of microswitch S1 in the cam direction.
  - (f) Stop the movement immediately when you hear the CLICK of the microswitch (operation indication).
  - (g) Tighten the screws that attach the support of the microswitch (S1).
- (2) Adjust the open position of the gasper shutoff valve. For this, do the steps below:
- (a) Connect the positive (+) wire of the electrical power supply to pin B of the electrical connector.
  - (b) Connect the negative (-) wire of the electrical power supply to pin A of the electrical connector.
  - (c) Monitor the travel of the mark in the end of the motor shaft (refer to view D).
  - (d) Stop the power supply to pin B immediately, when the mark comes to the letter O on the bottom of the gasper shutoff valve.
  - (e) Slowly move the support of microswitch S2 in the cam direction.
  - (f) Stop the movement immediately, when you hear the CLICK of the microswitch (operation indication).
  - (g) Tighten the screws that attach the support of the microswitch (S2).

K. Follow-on

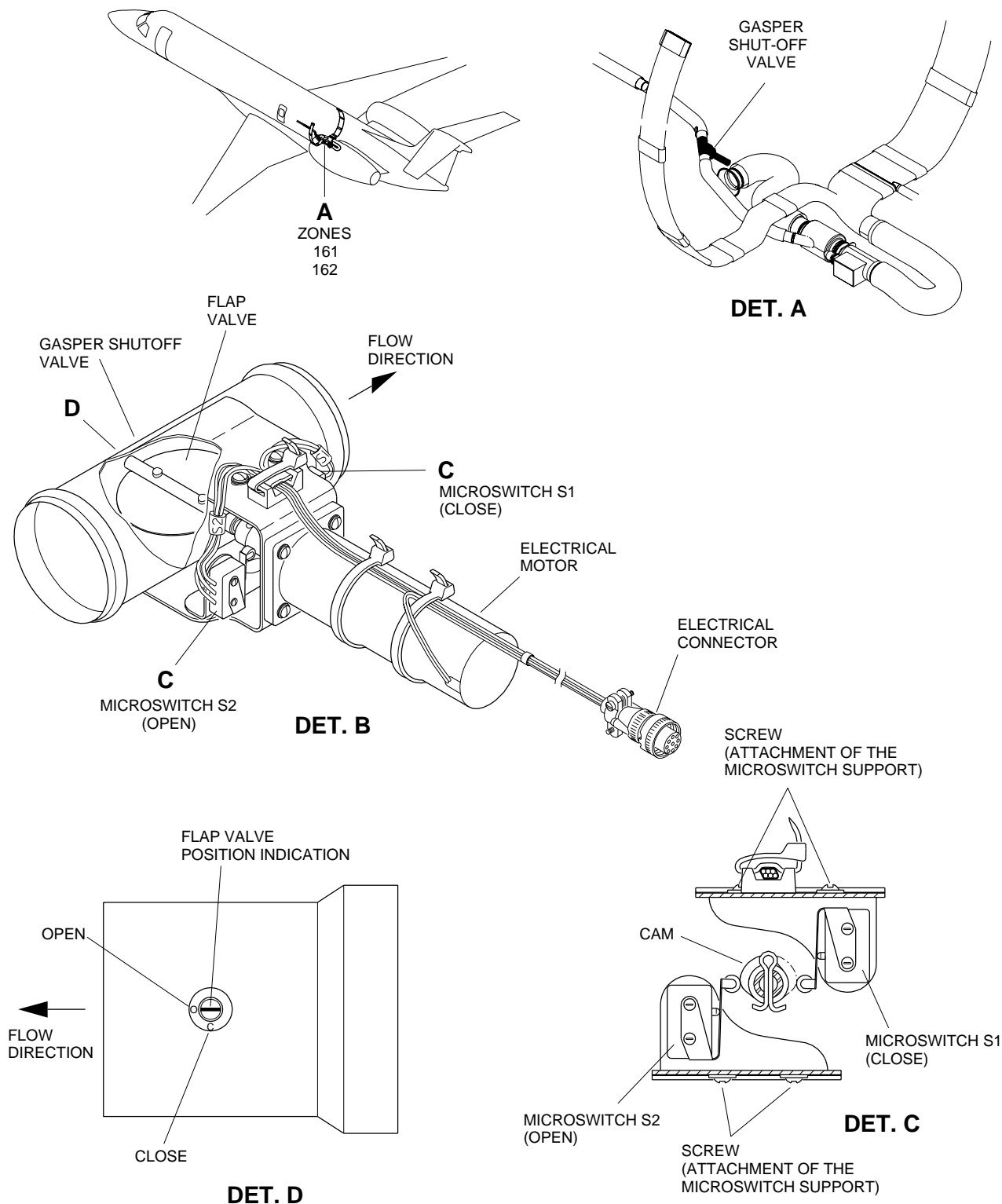
*SUBTASK 842-009-A*

- (1) Install the gasper shutoff valve to the aircraft (AMM TASK 21-23-01-400-802-A/400).

EFFECTIVITY: ACFT MODEL(S) EMB-135

Gasper Shutoff Valve - Adjustment

Figure 501



145AMM210235.MCE A