

## GASPER FAN - REMOVAL/INSTALLATION

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

### 1. General

- A. This section gives the procedures to remove/install the gasper fan.
- B. The gasper fan is installed in the center fuselage III, under the passenger cabin floor.
- 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              |
|--------------------|---------------------------|--------------------------|
| 21-23-03-000-802-A | GASPER FAN - REMOVAL      | ACFT MODEL(S)<br>EMB-135 |
| 21-23-03-400-802-A | GASPER FAN - INSTALLATION | ACFT MODEL(S)<br>EMB-135 |

TASK 21-23-03-000-802-A

EFFECTIVITY: ACFT MODEL(S) EMB-135

## 2. GASPER FAN - REMOVAL

### A. General

(1) This task gives the procedure to remove the gasper fan.

### B. References

| REFERENCE                       | DESIGNATION |
|---------------------------------|-------------|
| AMM MPP 06-41-02/100            | -           |
| AMM TASK 53-01-02-000-802-A/400 | -           |

### C. Zones and Accesses

| ZONE | PANEL/DOOR | LOCATION              |
|------|------------|-----------------------|
| 251  | 251HF      | Passenger cabin floor |

### D. Tools and Equipment

Not Applicable

### 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 | Under the passenger cabin floor |

### I. Preparation

#### SUBTASK 841-016-A

- (1) On the overhead circuit breaker panel, open the GASPER FAN circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) Remove the floor access panel 251HF (AMM MPP 06-41-02/100 and AMM TASK 53-01-02-000-802-A/400).
- (3) For Velcro-attached insulation, loosen the Velcro fasteners from the insulation blanket of the gasper fan.  
For adhesive tape-attached insulation, remove the tape from the insulating blanket of the gasper fan.

J. Removal ([Figure 401](#))

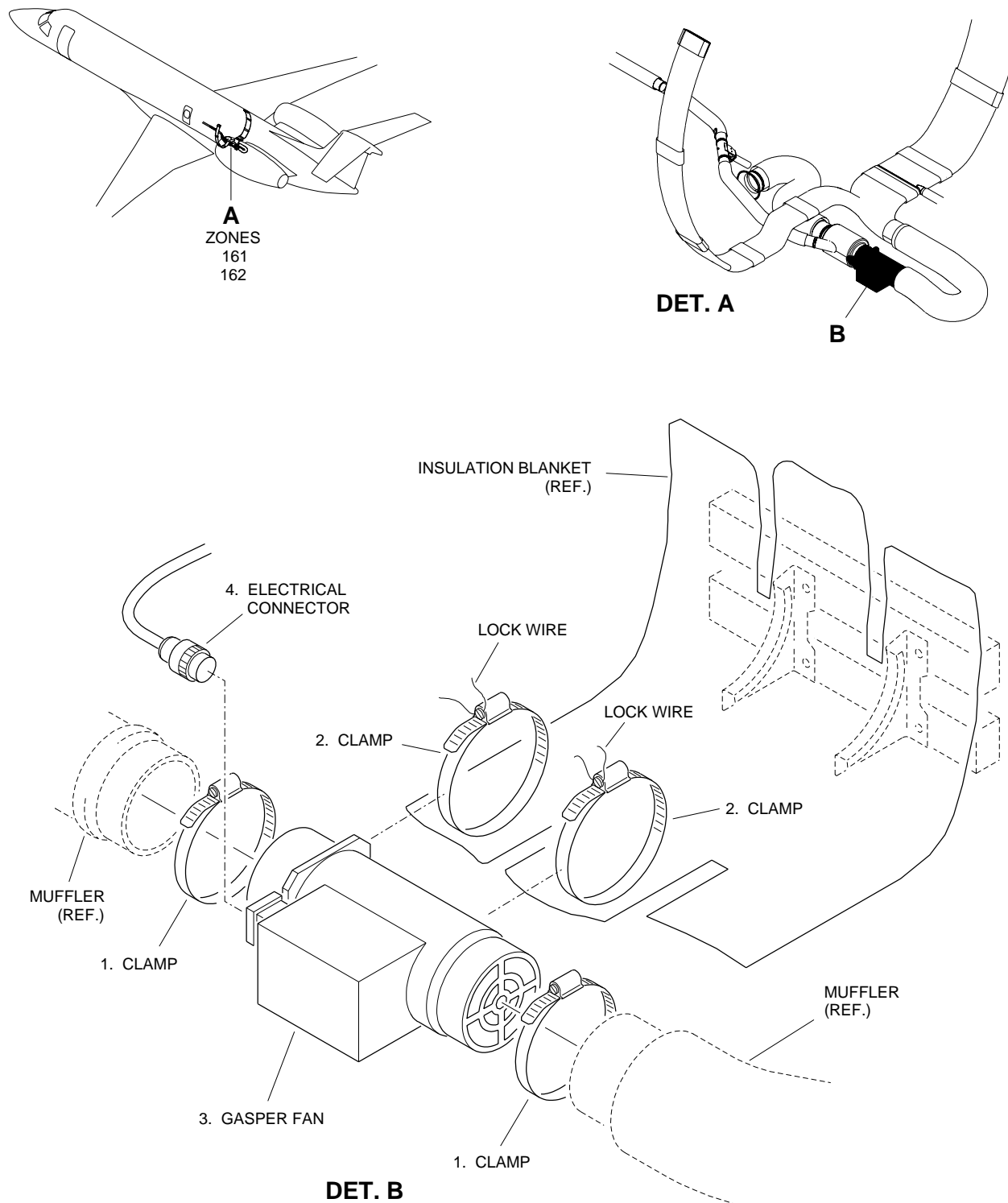
*SUBTASK 020-009-A*

- (1) Disconnect the electrical connector (4).
- (2) Remove the clamps (1) that attach the gasper fan in the inlet and outlet mufflers.
- (3) Cut the lockwire and loosen the clamps (2) that attach the fan to its support.
- (4) Remove the gasper fan (3).

EFFECTIVITY: ACFT MODEL(S) EMB-135

Gasper Fan - Removal/Installation

Figure 401



145AMM210238.MCE A

TASK 21-23-03-400-802-A

EFFECTIVITY: ACFT MODEL(S) EMB-135

### 3. GASPER FAN - INSTALLATION

#### A. General

(1) This task gives the procedure to install the gasper fan.

#### B. References

| REFERENCE                                       | DESIGNATION   |
|---|---|
| AMM MPP 06-41-02/100                            | -   |
| <a href="#">AMM TASK 21-20-00-700-801-A/500</a> | CONDITIONED AIR DISTRIBUTION SYSTEM - OPERATIONAL CHECK |
| AMM TASK 28-41-00-200-801-A/600                 | -   |
| AMM TASK 53-01-02-400-802-A/400                 | -   |

#### C. Zones and Accesses

| ZONE | PANEL/DOOR | LOCATION              |
|------|------------|-----------------------|
| 251  | 251HF      | Passenger cabin floor |

#### D. Tools and Equipment

Not Applicable

#### E. Auxiliary Items

Not Applicable

#### F. Consumable Materials

| SPECIFICATION<br>(BRAND) | DESCRIPTION   | QTY |
|--------------------------|---------------|-----|
| MS20995C20               | Safety wire   | AR  |
| KB42/75                  | Adhesive Tape | AR  |

#### G. Expandable Parts

Not Applicable

#### H. Persons Recommended

| QTY | FUNCTION      | PLACE                           |
|-----|---------------|---------------------------------|
| 1   | Does the task | Under the passenger cabin floor |

#### I. Preparation

##### **SUBTASK 841-017-A**

(1) Make sure that the GASPER FAN circuit breaker, on the overhead circuit breaker panel, is open and with a DO-NOT-CLOSE tag attached to it.

J. Installation (Figure 401)

*SUBTASK 420-009-A*

- (1) Put the gasper fan (3) in the installation position.
- (2) Install the fan to its support through the clamps (2).
- (3) Lockwire the clamps (2).
- (4) Install the clamps (1) that attach the fan to the inlet and outlet mufflers.
- (5) Connect the electrical connector (4).

K. Follow-on

*SUBTASK 842-009-A*

- (1) Do the [AMM TASK 21-20-00-700-801-A/500](#).
- (2) For Velcro-attachable insulation, attach the Velcro fastener of the insulating blanket of the gasper fan.  
  
For adhesive tape-attachable insulation, put the insulating blanket in position and apply several pieces of KB42/75 tape to hold the ends of the blanket together.
- (3) Do an inspection on the fuel quantity indication harness (AMM TASK 28-41-00-200-801-A/600).  
  
NOTE: The inspection of fuel quantity indication harness is a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations (Section 6) of the Maintenance Review Board Report (MRB).
- (4) Install the floor access panel 251HF (AMM MPP 06-41-02/100 and AMM TASK 53-01-02-400-802-A/400).
- (5) On the overhead circuit breaker panel, remove the DO-NOT-CLOSE tag from the GASPER FAN circuit breaker and close it.