

GASPER FAN - REMOVAL/INSTALLATION

EFFECTIVITY: ACFT MODEL(S) EMB-145

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 |
|--------------------|---------------------------|--------------------------|
| 21-23-03-000-801-A | GASPER FAN - REMOVAL | ACFT MODEL(S) EMB-145 |
| 21-23-03-400-801-A | GASPER FAN - INSTALLATION | ACFT MODEL(S) EMB-145 |

TASK 21-23-03-000-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

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 53-01-02-000-801-A/400 | - |

C. Zones and Accesses

| ZONE | PANEL/DOOR | LOCATION |
|------|------------|-----------------------|
| 251 | 251HF | Passenger cabin floor |
| 261 | 261BF | 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 841-014-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 panels 251HF and 261BF (AMM MPP 06-41-02/100 and AMM TASK 53-01-02-000-801-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](#))

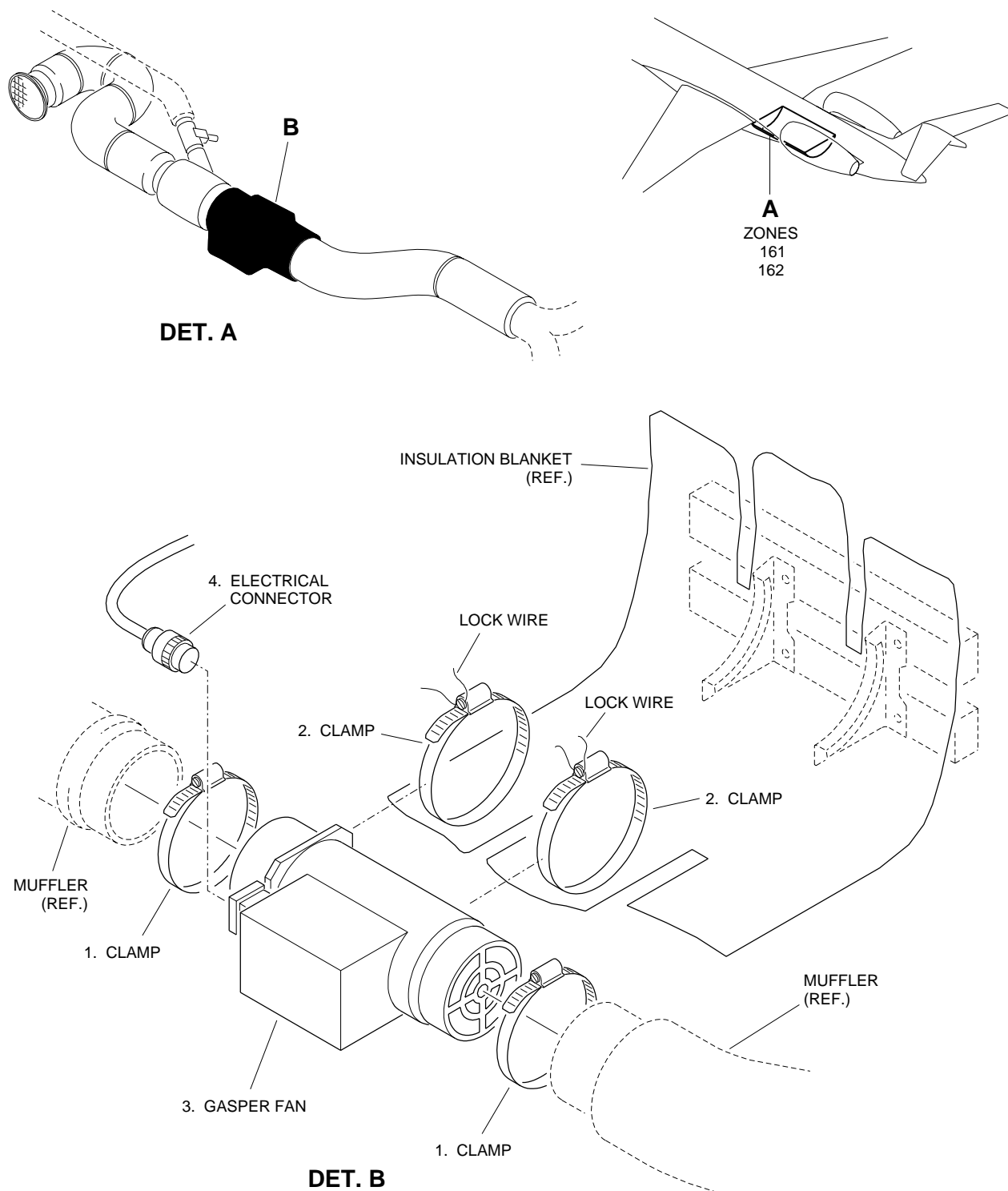
SUBTASK 020-008-A

- (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-145

Gasper Fan - Removal/Installation

Figure 401



145AMM210009.MCE B

TASK 21-23-03-400-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

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 | - |
| AMM TASK 21-20-00-700-801-A/500 | CONDITIONED AIR DISTRIBUTION SYSTEM - OPERATIONAL CHECK |
| AMM TASK 28-41-00-200-801-A/600 | - |
| AMM TASK 53-01-02-400-801-A/400 | - |

C. Zones and Accesses

| ZONE | PANEL/DOOR | LOCATION |
|------|------------|-----------------------|
| 251 | 251HF | Passenger cabin floor |
| 261 | 261BF | Passenger cabin floor |

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

| SPECIFICATION (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 841-015-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 420-008-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 842-008-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 panels 251HF and 261BF (AMM MPP 06-41-02/100 and AMM TASK 53-01-02-400-801-A/400).
- (5) On the overhead circuit breaker panel, remove the DO-NOT-CLOSE tag from the GASPER FAN circuit breaker and close it.