



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

GASPER FAN CONTACTOR - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the gasper fan contactor.
- B. The gasper fan contactor is installed in the RH Electrical-power control/distribution box.
- 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
21-23-06-000-801-A	GASPER FAN CONTACTOR - REMOVAL	ALL
21-23-06-400-801-A	GASPER FAN CONTACTOR - INSTALLA- TION	ALL



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TASK 21-23-06-000-801-A

EFFECTIVITY: ALL

2. GASPER FAN CONTACTOR - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the gasper fan contactor.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-03/100	- COMPONENT LOCATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
224	224NZ	RH cockpit/pax partition

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	RH cockpit/pax partition

I. Preparation

SUBTASK 841-002-A

- (1) Make sure that the GPU pushbutton, on the overhead panel, is set to OFF.
- (2) Put a DO-NOT-SET-TO-ON tag, on GPU pushbutton.
- (3) Make sure that the BATT 1 and BATT 2 switches, on the overhead panel, are set to OFF.
- (4) Put a DO-NOT-SET-TO-AUTO tag, on BATT 1 and BATT 2 switches.
- (5) Set the BACKUP pushbutton, on the overhead panel, to OFF.
- (6) Put a DO-NOT-SET-AUTO tag, on BACKUP pushbutton.

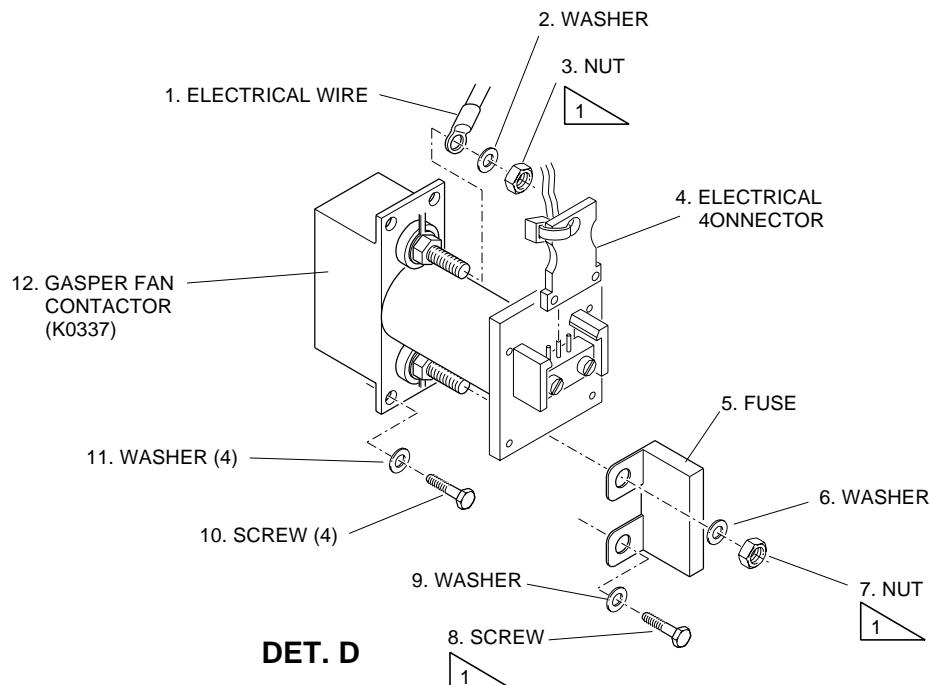
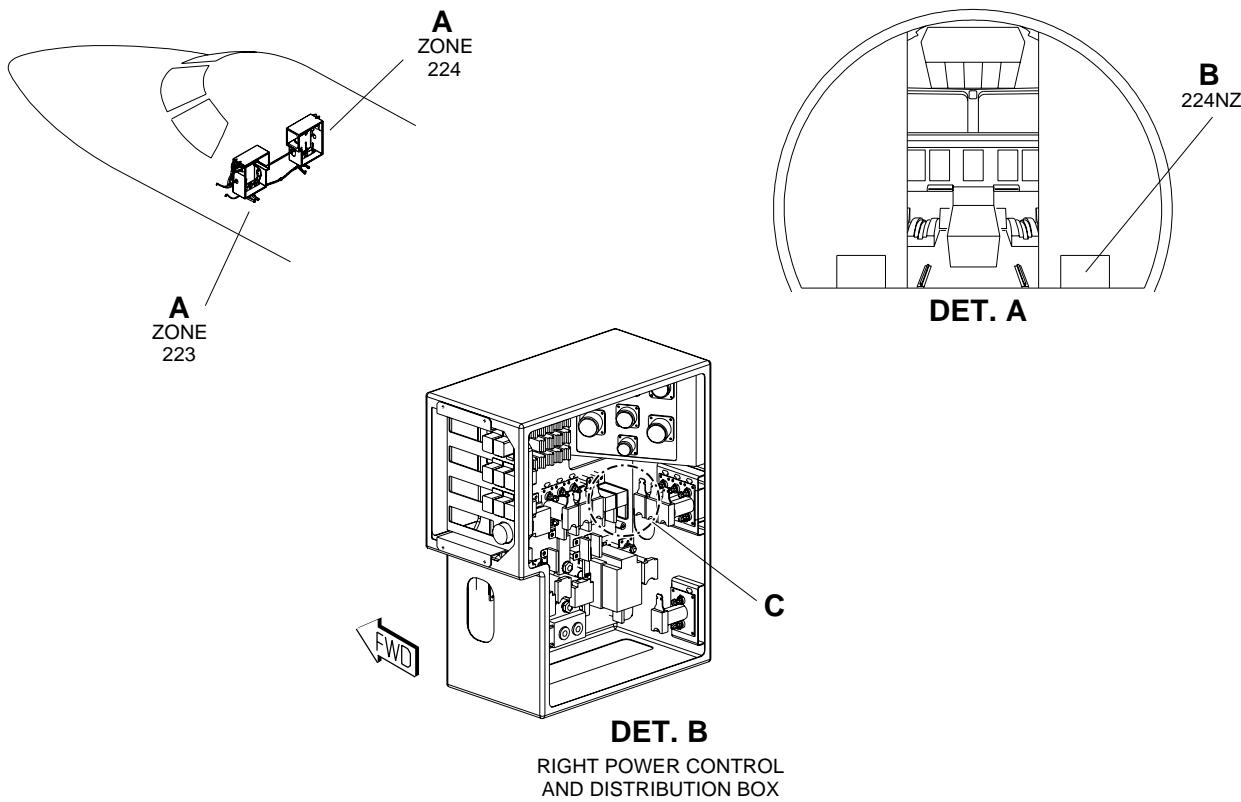


- (7) To get access to the gasper fan contactor RH electrical-power control/distribution box, remove the 224NZ access panel ([AMM MPP 06-41-03/100](#)).

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

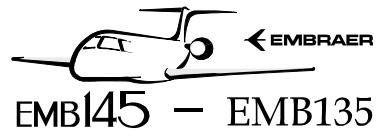
SUBTASK 020-002-A

- (1) Disconnect the electrical connector (4).
- (2) Remove the nut (3), washers (2) and electrical wire (1).
- (3) Remove the nut (7) and washers (6).
- (4) Remove the screw (8) and washer (9) that attach the fuse on the connection bar.
- (5) Remove the fuse (5).
- (6) Remove the four screws (10) and washers (11) that attach the contactor on the electrical-power control/distribution box.
- (7) Remove the gasper fan contactor (12).

EFFECTIVITY: ALL
Gasper Fan Contactor - Removal/Installation
Figure 401


 TORQUE: 4.0 – 4.4 N.m (35.3 – 39.0 lb.in)

EM145AMM211042A.DGN



AIRCRAFT
MAINTENANCE MANUAL

TASK 21-23-06-400-801-A

EFFECTIVITY: ALL

3. GASPER FAN CONTACTOR - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the gasper fan contactor.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-03/100	- COMPONENT LOCATION
AMM SDS 24-60-00/1	
AMM TASK 21-20-00-700-801-A/500	CONDITIONED AIR DISTRIBUTION SYSTEM - OPERATIONAL CHECK

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
224	224NZ	RH cockpit/pax partition

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench	To apply the torque	

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	RH cockpit/pax partition

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the gasper fan contactor (12) in the electrical-power control/distribution box ([AMM SDS 24-60-00/1](#)).
- (2) Install the screws (10) and washers (11) that attach the gasper fan contactor (12) in the electrical-power control/distribution box.
- (3) Connect the electrical wire (1) with the washer (2) and nut (3).

- (4) Use the torque wrench to torque nut (3) to 4 - 4.4 N.m (35.3 - 39.0 lbf.in).
- (5) Apply a drop of torque seal F-925 to the nut (3) as a check mark.
- (6) Put the fuse (5) on the gasper fan contactor (12).
- (7) Install the washer (6) and the nut (7) .
- (8) Use the torque wrench to torque nut (7) to 4 - 4.4 N.m (35.3 - 39.0 lbf.in).
- (9) Apply a drop of torque seal F-925 to the nut (7) as a check mark.
- (10) Install the washer (9) and screw (8) that attach the fuse on the connection bar.
- (11) Use the torque wrench to torque screw (8) to 4 - 4.4 N.m (35.3 - 39.0 lbf.in).
- (12) Apply a drop of torque seal F-925 to the screw (8) as a check mark.
- (13) Connect the electrical connector (1).

J. Follow-on

SUBTASK 842-002-A

- (1) Close the 224NZ access panel ([AMM MPP 06-41-03/100](#)).
- (2) Remove the DO-NOT-SET-AUTO tag from the BACKUP pushbutton.
- (3) Set the BACKUP pushbutton to AUTO.
- (4) Remove the DO-NOT-SET-TO-ON tag from the GPU pushbutton.
- (5) Remove the DO-NOT-SET-TO-AUTO tag from BATT 1 and BATT 2 switches.
- (6) Do the Operational Check of the Conditioned Air Distribution System ([AMM TASK 21-20-00-700-801-A/500](#)).