

## AIR CONDITIONING DUCTS - REMOVAL/INSTALLATION

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

### 1. General

- A. This section gives the procedures to remove and install a typical duct.
- B. These procedures are not applicable to the removal/installation of a specific duct.
- 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
21-20-04-000-802-A	TYPICAL DUCT - REMOVAL	ACFT MODEL(S) EMB-135
21-20-04-400-802-A	TYPICAL DUCT - INSTALLATION	ACFT MODEL(S) EMB-135

TASK 21-20-04-000-802-A

EFFECTIVITY: ACFT MODEL(S) EMB-135

## 2. TYPICAL DUCT - REMOVAL

### A. General

(1) This task gives the instructions to remove a typical duct.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-02/100	-
AMM MPP 06-41-04/100	-
AMM TASK 21-20-01-000-801-A/400	-
AMM TASK 25-23-01-000-801-A/400	-
AMM TASK 25-23-02-000-801-A/400	-
<a href="#">AMM TASK 53-01-01-000-801-A/400</a>	COCKPIT FLOOR PANELS - REMOVAL
AMM TASK 53-01-02-000-802-A/400	-
<a href="#">SB145-21-0024</a>	-

### C. Zones and Accesses

Not Applicable

### 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	In the aircraft

### I. Preparation

#### **SUBTASK 841-014-A**

- (1) Remove the cockpit floor panels as necessary (AMM MPP 06-41-02/100 and [AMM TASK 53-01-01-000-801-A/400](#)).
- (2) Remove the passenger-cabin floor panels as necessary (AMM MPP 06-41-02/100 and AMM TASK 53-01-02-000-802-A/400).

- (3) Remove the passenger-cabin sidewall lining panels as necessary (AMM MPP 06-41-04/100 and AMM TASK 25-23-01-000-801-A/400).
- (4) Remove the passenger-cabin skirting lining panels as necessary (AMM MPP 06-41-04/100 and AMM TASK 25-23-02-000-801-A/400).
- (5) Remove the thermal insulating blankets as necessary (AMM TASK 21-20-01-000-801-A/400).

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

*SUBTASK 020-014-A*

- (1) Refer to DET. C and remove the duct as follows:
  - (a) Remove and discard the tiedown strap(s) (4) that attach(es) the duct (1) to the support(s) (2).
  - (b) Remove the clamp (3) (when applicable).
  - (c) Remove the adhesive tape (5).
  - (d) Remove the duct (1).
- (2) Refer to DET. B and remove the duct as follows:
  - (a) Refer to DET. F and remove the adhesive tape (9).
  - (b) Refer to DET. E and remove and discard the tiedown strap (6) that attaches the duct (8) to the support (7).
  - (c) Remove the duct (8).
- (3) Refer to DET. D and remove the duct as follows:
  - (a) Refer to DET. G and remove the screws (13) and washers (14) from the support (15).
  - (b) Refer to VIEW H and remove the sealant from the junction areas of the ducts.
  - (c) Refer to DET. E and remove and discard the tiedown strap (10) that attaches the duct (12) to the support (11).
  - (d) On aircraft POST-MOD. [SB145-21-0024](#), refer to DET. J and remove and discard the tiedown strap (18) that attaches the duct (17) to the duct (19).
  - (e) Remove the duct (17).

Figure 401 - Sheet 1



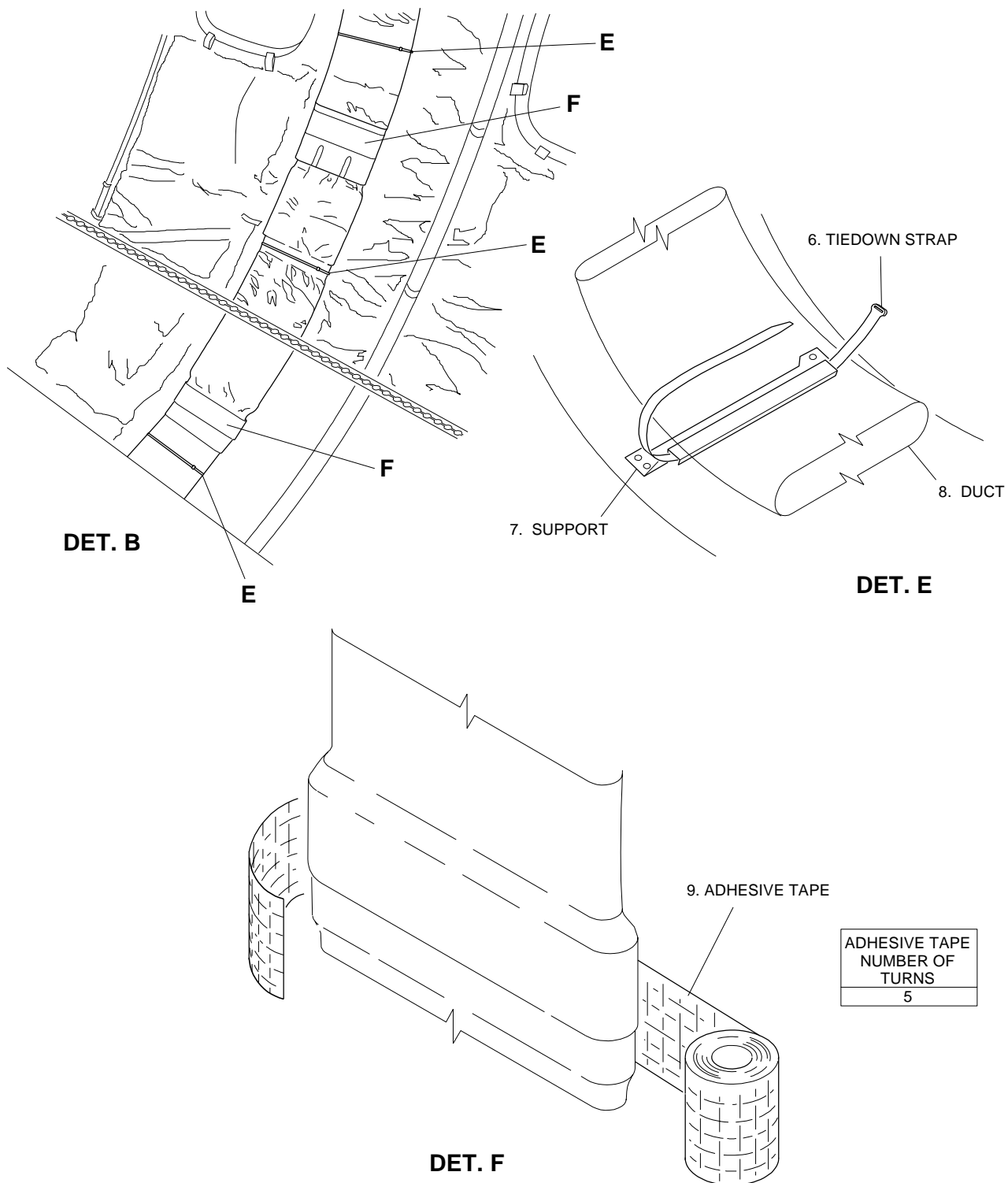
APPLY SEALANT RTV780. REFER TO SRM 51-20-01.  
FOR ALTERNATIVE SEALANTS, REFER TO AMM 20-30-03/201.

EM145AMM210242D.DGN

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

**Typical Duct - Removal/Installation**

**Figure 401 - Sheet 2**

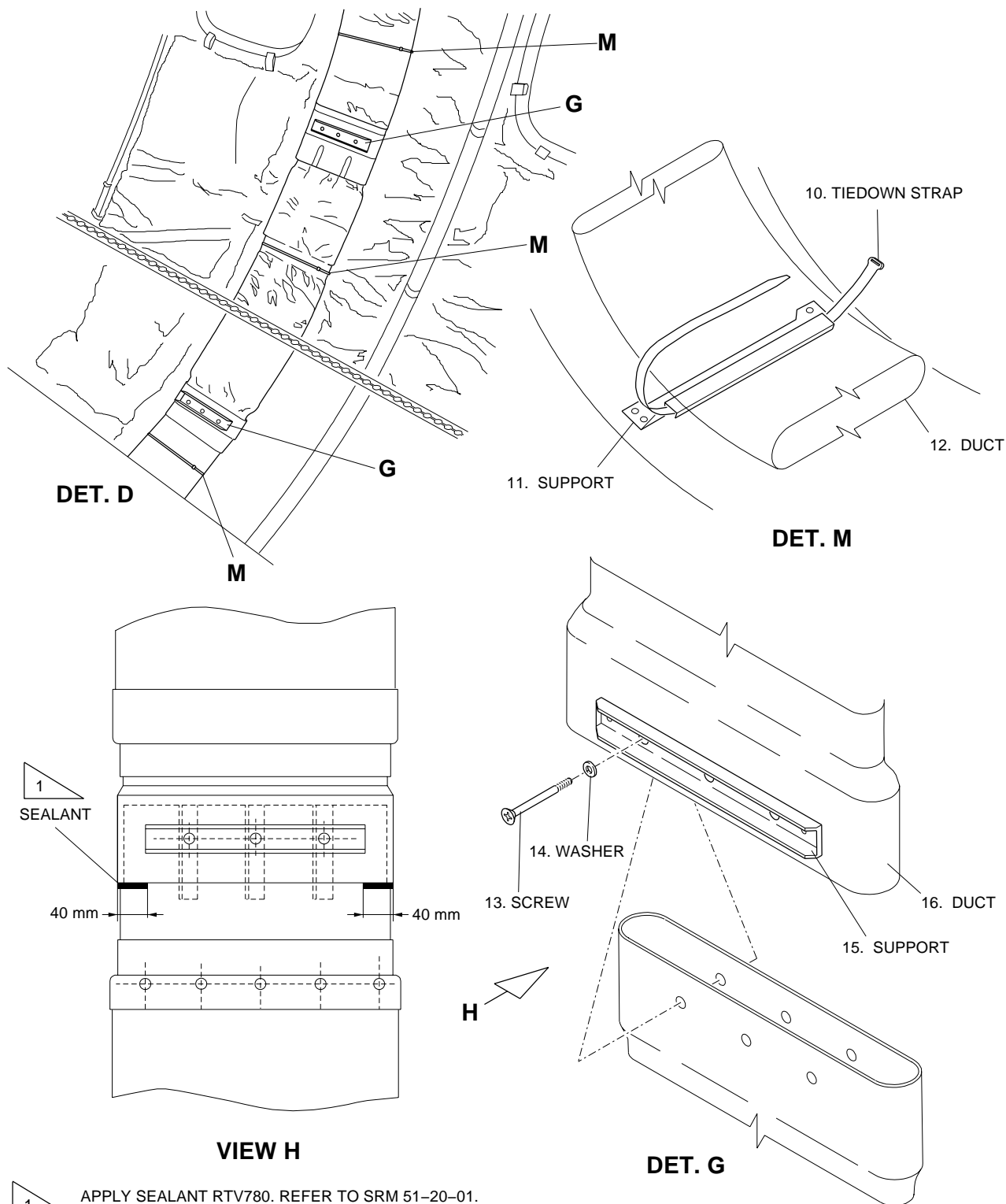


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EFFECTIVITY: ACFT MODEL(S) EMB-135

Typical Duct - Removal/Installation

Figure 401 - Sheet 3



EM145AMM210257C.DGN

TASK 21-20-04-400-802-A

EFFECTIVITY: ACFT MODEL(S) EMB-135

### 3. TYPICAL DUCT - INSTALLATION

#### A. General

(1) This task gives the instructions to install a typical duct.

#### B. References

REFERENCE	DESIGNATION
21-21-00 or 21-22-00 or 21-23-00	-
AMM MPP 06-41-02/100	-
AMM MPP 06-41-04/100	-
AMM TASK 21-20-01-400-801-A/400	-
AMM TASK 25-23-01-400-801-A/400	-
AMM TASK 25-23-02-400-801-A/400	-
AMM TASK 53-01-01-400-801-A/400	COCKPIT FLOOR PANELS - INSTALLATION
AMM TASK 53-01-02-400-802-A/400	-
SB145-21-0024	-

#### C. Zones and Accesses

Not Applicable

#### D. Tools and Equipment

Not Applicable

#### E. Auxiliary Items

Not Applicable

#### F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
KB 42/75 - 75 mm (2.95 in)	Adhesive tape	AR
ASTM C-920	Sealant	AR

#### G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Cable Tiedown Strap	21-21-00 or 21-22-00 or 21-23-00	AR

#### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	In the aircraft

I. Installation (Figure 401)

*SUBTASK 420-013-A*

- (1) Refer to DET. C and install the duct as follows:
  - (a) Join the ducts (1).
  - (b) Attach the joint with 5 turns of adhesive tape (5).
  - (c) Install the clamp (3) (when applicable).
  - (d) Install the new tiedown strap(s) (4) that attach(es) the duct (1) to the support(s) (2).
- (2) Refer to DET. B and install the duct as follows:
  - (a) Join the ducts (8).
  - (b) Refer to DET. E and install the new tiedown strap (6) that attaches the duct (8) to the support (7).
  - (c) Refer to DET. F and attach the joint with 5 turns of adhesive tape (9).
- (3) Refer to DET. D and install the duct as follows:
  - (a) Put the duct (12) in its installation position.
  - (b) Refer to DET. G and install the screws (13) and washers (14) in the support (15).
  - (c) On aircraft POST-MOD. [SB145-21-0024](#), refer to DET. J and install the new tiedown strap (18) that attaches the duct (17) to the duct (19).
  - (d) Refer to DET. E and install the new tiedown strap (6) that attaches the duct (8) to the support (7).
  - (e) Refer to VIEW H to apply a bead of sealant at the junction area of the ducts.

J. Follow-on

*SUBTASK 842-013-A*

- (1) Install the thermal insulating blankets as necessary (AMM TASK 21-20-01-400-801-A/400).
- (2) Install the passenger-cabin skirting lining panels as necessary (AMM MPP 06-41-04/100 and AMM TASK 25-23-02-400-801-A/400).
- (3) Install the passenger-cabin sidewall lining panels as necessary (AMM MPP 06-41-04/100 and AMM TASK 25-23-01-400-801-A/400).
- (4) Install the passenger-cabin floor panels as necessary (AMM MPP 06-41-02/100 and AMM TASK 53-01-02-400-802-A/400).
- (5) Install the cockpit floor panels as necessary (AMM MPP 06-41-02/100 and [AMM TASK 53-01-01-400-801-A/400](#)).