

AIR CONDITIONING DUCTS - REMOVAL/INSTALLATION

EFFECTIVITY: ACFT MODEL(S) EMB-145

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
21-20-04-000-801-A	TYPICAL DUCT - REMOVAL	ACFT MODEL(S) EMB-145
21-20-04-400-801-A	TYPICAL DUCT - INSTALLATION	ACFT MODEL(S) EMB-145

TASK 21-20-04-000-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

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	-
AMM TASK 53-01-01-000-801-A/400	COCKPIT FLOOR PANELS - REMOVAL
AMM TASK 53-01-02-000-801-A/400	-

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 841-013-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 53-01-02-000-801-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 [\(Figure 401\)](#)

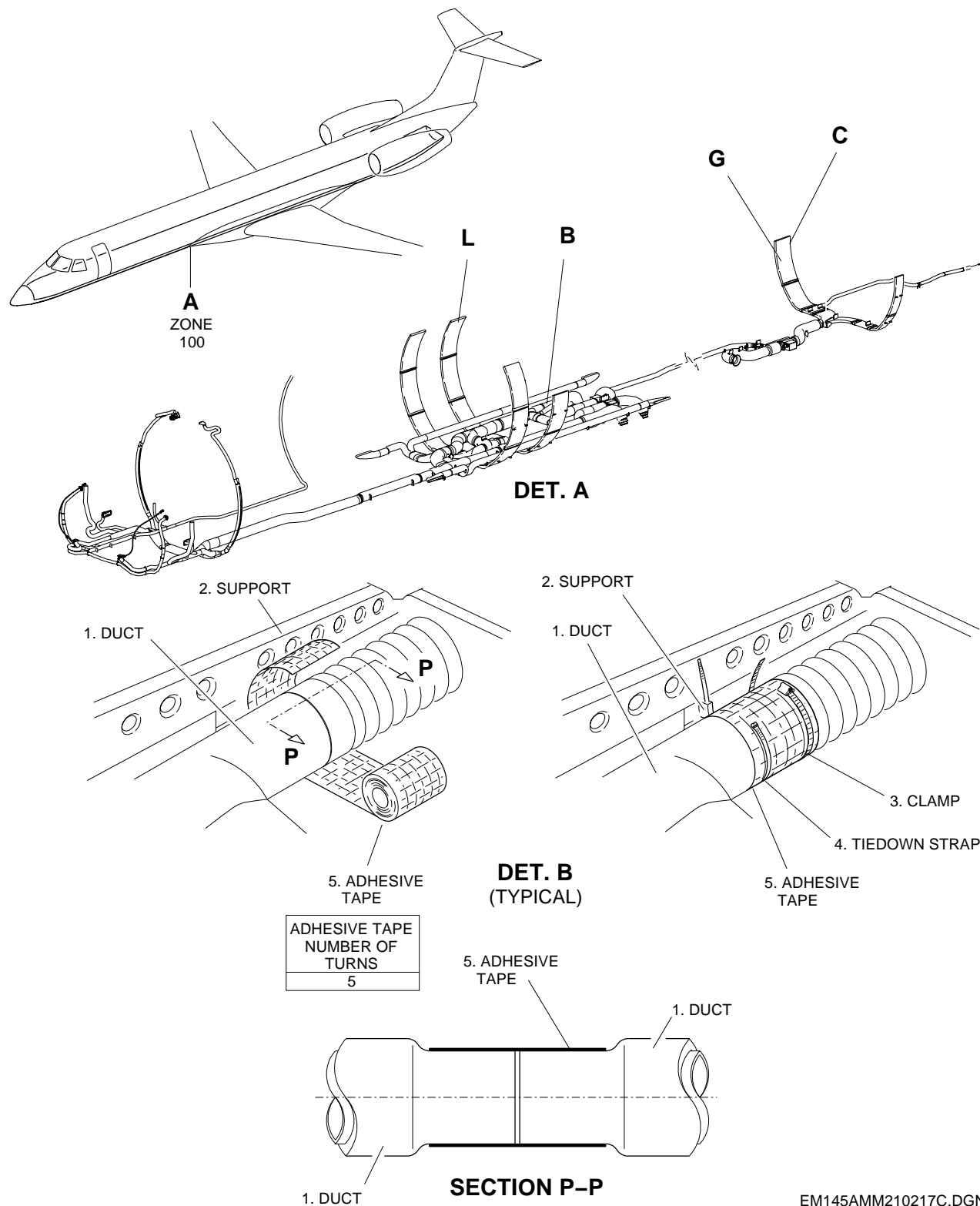
SUBTASK 020-013-A

- (1) Refer to DET. B 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) For aircraft S/N 047 and on, refer to DET. C and remove the duct as follows:
 - (a) Refer to DET. E and remove the screws (9) and washers (10) from the support (11).
 - (b) Refer to VIEW F and remove the sealant from the junction areas of the ducts.
 - (c) Refer to DET. D and remove and discard the tiedown strap (6) that attaches the duct (8) to the support (7).
 - (d) Remove the duct (8).
- (3) For aircraft S/N 004 thru 046, refer to DET. G and remove the duct as follows:
 - (a) Refer to DET. J and remove the adhesive tape (16).
 - (b) Refer to SECTION A-A and remove the sealant from the junction areas of the ducts (applicable to aircraft S/N 022 thru 046).
 - (c) Refer to DET. H and remove and discard the tiedown strap (13) that attaches the duct (15) to the support (14).
 - (d) Remove the duct (15).
- (4) Refer to DET. L and remove the duct as follows:
 - (a) Refer to DET. N and remove the adhesive tape (20).
 - (b) Refer to DET. M and remove and discard the tiedown strap (17) that attaches the duct (19) to the support (18).
 - (c) Remove the duct (19).

EFFECTIVITY: ACFT MODEL(S) EMB-145

Typical Duct - Removal/Installation

Figure 401 - Sheet 1

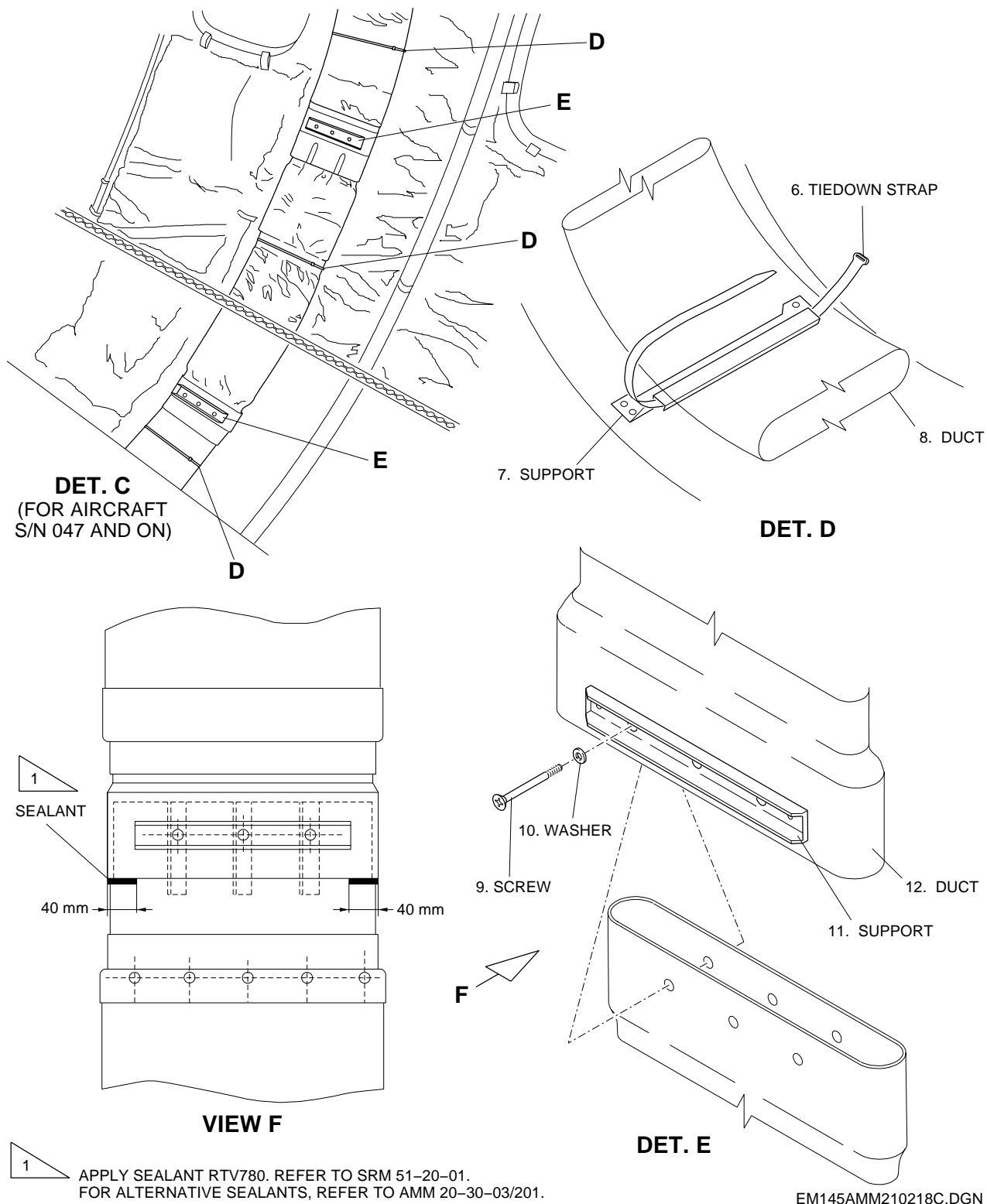


EM145AMM210217C.DGN

EFFECTIVITY: ACFT MODEL(S) EMB-145

Typical Duct - Removal/Installation

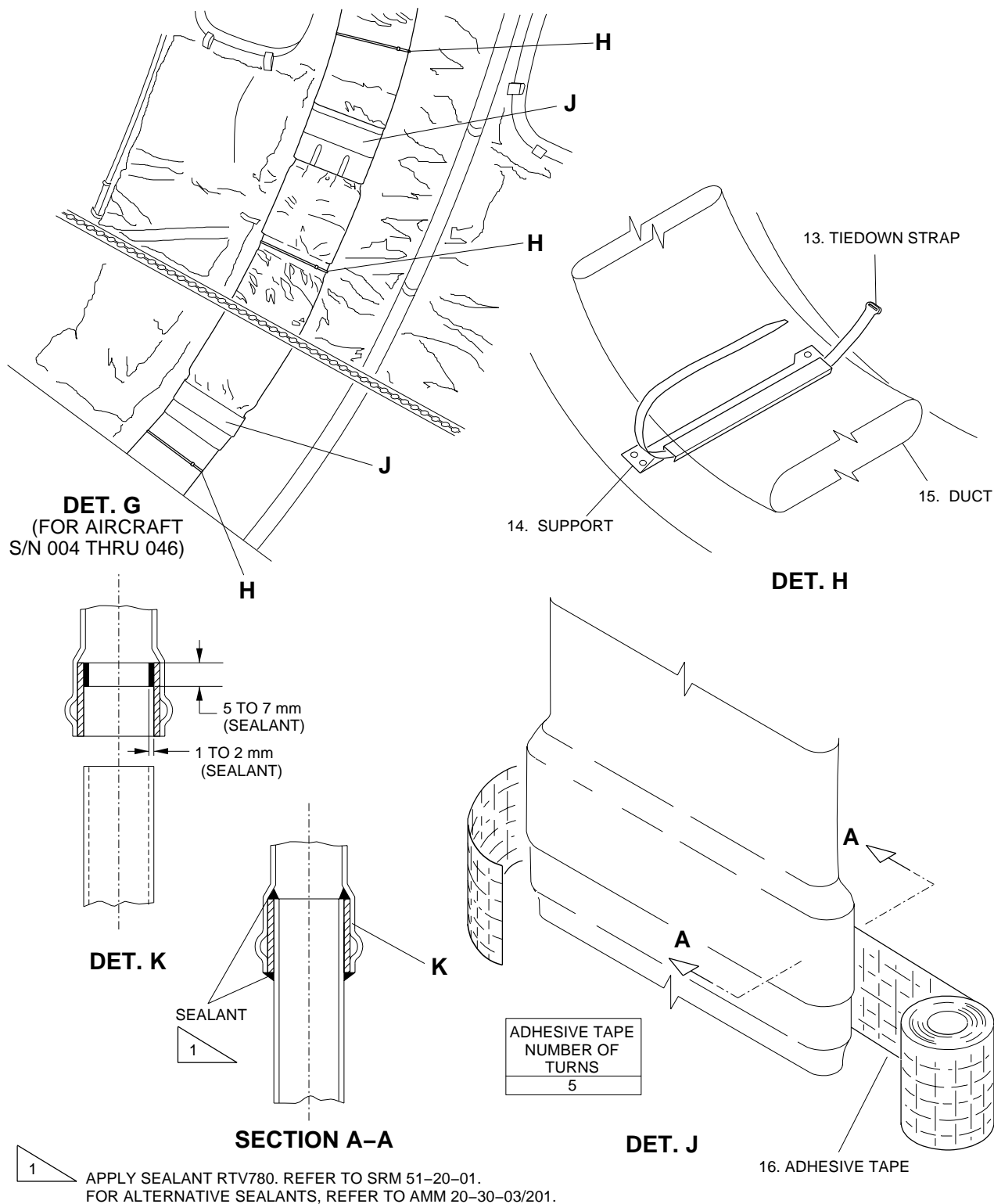
Figure 401 - Sheet 2



EFFECTIVITY: ACFT MODEL(S) EMB-145

Typical Duct - Removal/Installation

Figure 401 - Sheet 3

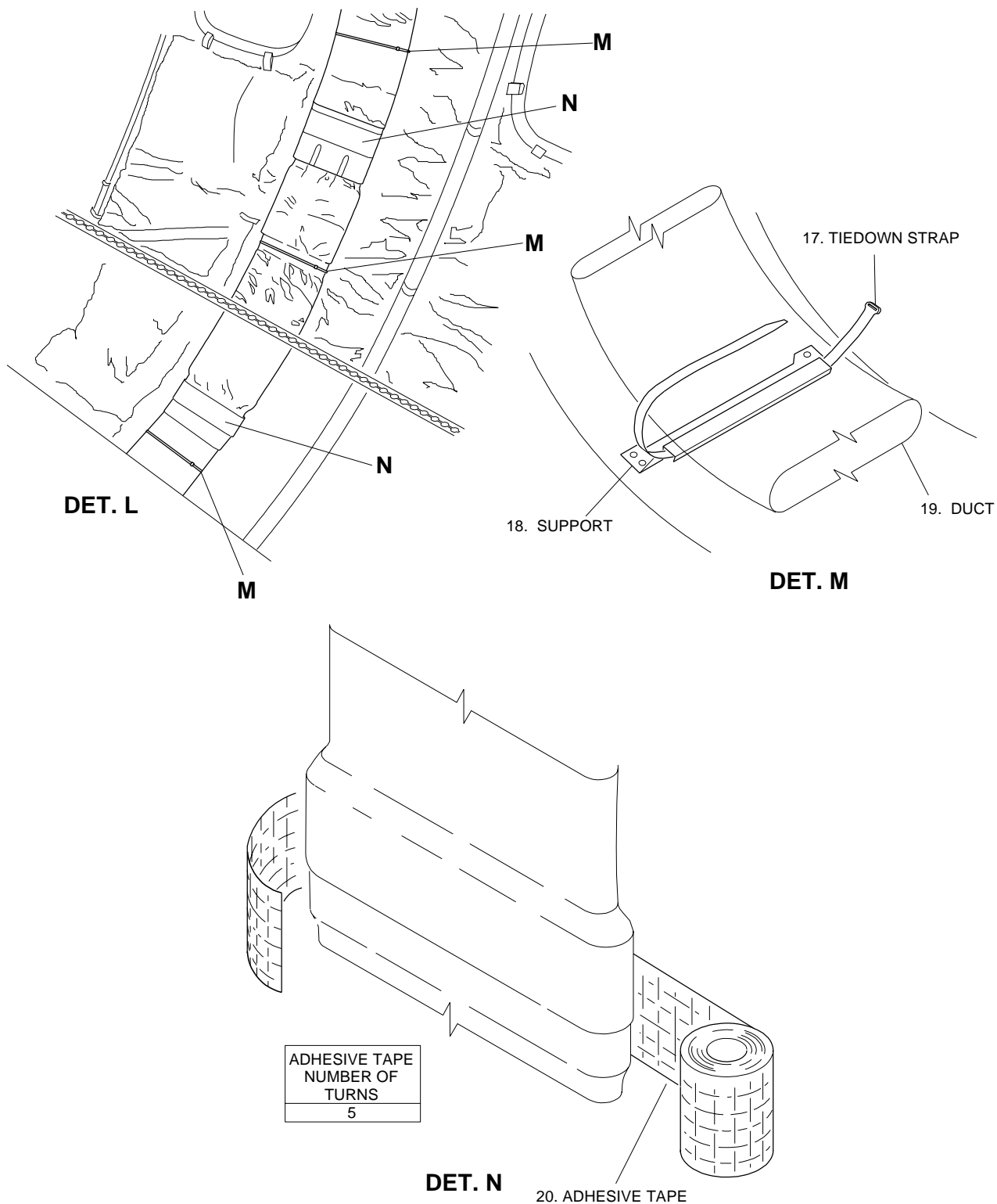


EM145AMM210254B.DGN

EFFECTIVITY: ACFT MODEL(S) EMB-145

Typical Duct - Removal/Installation

Figure 401 - Sheet 4



EM145AMM210255A.DGN

TASK 21-20-04-400-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

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

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 420-012-A

- (1) Refer to DET. B 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) For aircraft S/N 047 and on, refer to DET. C and install the duct as follows:
 - (a) Put the duct (8) in its installation position.
 - (b) Refer to DET. E and install the screws (9) and washers (10) in the support (11).
 - (c) Refer to DET. D and install the new tiedown strap (6) that attaches the duct (8) to the support (7).
 - (d) Refer to VIEW F to apply a bead of sealant at the junction area of the ducts.
- (3) For aircraft S/N 004 thru 046, refer to DET. G and install the duct as follows:
 - (a) Refer to DET. K to apply a bead of sealant on the inside of the duct (15).
 - (b) Join the ducts (15).
 - (c) Refer to SECTION A-A and apply another bead of sealant at the junction area of the ducts.
 - (d) Refer to DET. H and install the new tiedown strap (13) that attaches the duct (15) to the support (14).
 - (e) Refer to DET. J and attach the joint with 5 turns of adhesive tape (16).
- (4) Refer to DET. L and install the duct as follows:
 - (a) Join the ducts (19).
 - (b) Refer to DET. M and install the new tiedown strap (17) that attaches the duct (19) to the support (18).
 - (c) Refer to DET. N and attach the joint with 5 turns of adhesive tape (20).

J. Follow-on

SUBTASK 842-012-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 53-01-02-400-801-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](#)).