

## VIBRATION DAMPER - REPAIR

*EFFECTIVITY: ACFT MODEL(S) EMB-145*

### 1. General

- A. This section gives the procedures to repair/replace the vibration damper.
- B. The vibration damper shall be considered damaged if the aluminum covering layer is cut and/or slit or if the composite is compressed at any point more than 50% of its thickness.
- C. Repair the vibration damper according to the following criteria:
  - Damage area larger than 4 square inches (25.08 square cm);
  - More than 6 damaged spots.
- D. 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
51-70-00-300-801-A	VIBRATION DAMPER - REPAIR	ACFT MODEL(S) EMB-145

TASK 51-70-00-300-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

## 2. VIBRATION DAMPER - REPAIR

### A. General

(1) This task gives the instructions to repair the vibration damper.

### B. References

REFERENCE	DESIGNATION
25-81-00	-
CPM 51-61-00	-
SRM 51-20-01	-

### C. Zones and Accesses

Not Applicable

### D. Tools and Equipment

Not Applicable

### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Acrylic Spatula	To clean the surface and release the sealant	1
Commercially available	Cutter	To detach the aluminum foil	1
Commercially available	Porous-point pen marker	To make marks around the damage	1
Commercially available	Scissors	To cut the blanket	1

### F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Fed. Spec. TT-M-261	Methyl-ethyl-ketone (MEK)	AR

### G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Vibration Damper	25-81-00	1

### H. Persons Recommended

QTY	FUNCTION	PLACE
2	Do the task	Fuselage

I. Preparation

*SUBTASK 841-003-A*

- (1) Get access to the area to be repaired.
- (2) Make sure that the aircraft is in a safe condition before you do the maintenance procedures.

J. Repair (Figure 801)

*SUBTASK 300-003-A*

- (1) Find the extension of the damage (1).
- (2) With a porous-point pen marker (3), mark the contour (4) of the damage (1) in the vibration damper (2) (Figure 801, sheet 1, DET. A).

NOTE: Mark the contour (4) in a regular geometric shape to make the remaining process easier.

CAUTION: BE VERY CAREFUL WHEN YOU USE THE CUTTER, NOT TO SCRATCH THE SURFACE.

- (3) Use a cutter (5) to detach the aluminum foil (6) that covers the damaged vibration damper (Figure 801, sheet 1, DET. B).

CAUTION: BE VERY CAREFUL WHEN YOU REMOVE THE REMAINING VIBRATION DAMPER, NOT TO CAUSE DAMAGE.

- (4) Use an acrylic spatula (7) to release the remaining vibration damper (Figure 801, sheet 1, DET. C).

NOTE: If necessary, use a plastic bottle with nozzle (8) to spray MEK to help loosen the remaining bond (Figure 801, sheet 2, DET. D).

- (5) With a cloth soaked in MEK, clean the surface.

NOTE: • Make sure that the surface to be inspected is clean and without sealant residues, rubber, or oil.

- Do a detailed inspection for scratches and other types of damage on the surface. If you find a damage, tell the Embraer Technical Support.

- (6) If applicable, restore the Corrosion-Inhibiting Compound (CIC), and wait its curing time. Refer to CPM 51-61-00.

- (7) Use the detached aluminum foil (6) as a template to mark a contour on the new vibration damper.

- (8) Use a pair of scissors to cut the new vibration damper in the marked area.

- (9) Identify the damaged vibration damper according to the Illustrated Parts Catalog (IPC).

- (10) For SD-40ALPSA vibration damper: fill in the gaps and voids around the damage border with sealant RTV 157 (Figure 801, sheet 2, DET. E). Refer to SRM 51-20-01.

- (11) Release the protective backing from the cut-out vibration damper to install it.

- (12) Install the new vibration damper and, with an acrylic spatula, squeeze it to remove the bubbles.
- (13) For SD-40ALPSA vibration damper: fill in the gaps and voids around the installed vibration damper border with sealant RTV 157 ([Figure 801](#), sheet 2, DET. E). Refer to SRM 51-20-01.

K. Follow-on

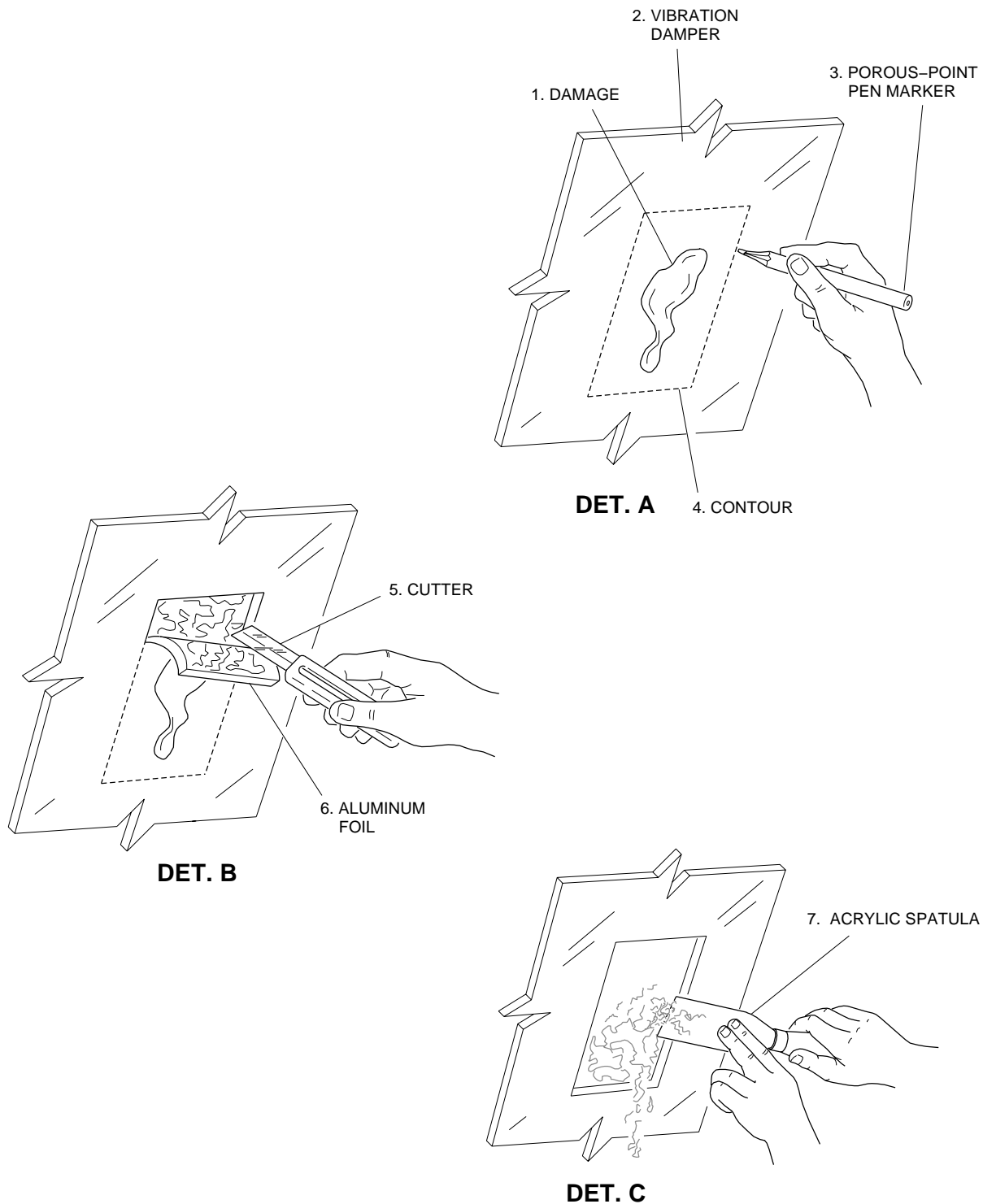
*SUBTASK 842-003-A*

- (1) Put the aircraft back to normal condition.

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**Vibration Damper - Repair**

**Figure 801 - Sheet 1**

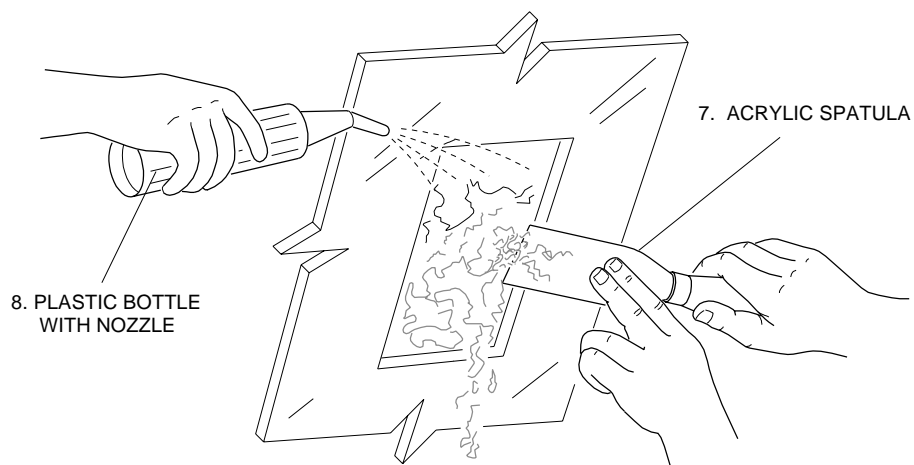


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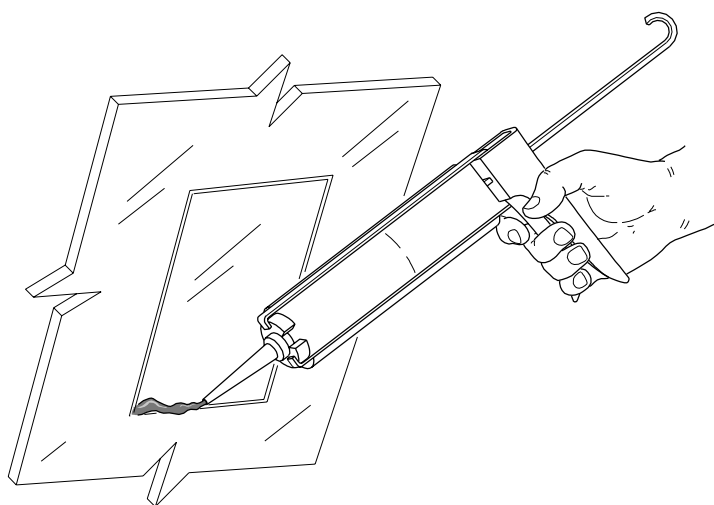
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**Vibration Damper - Repair**

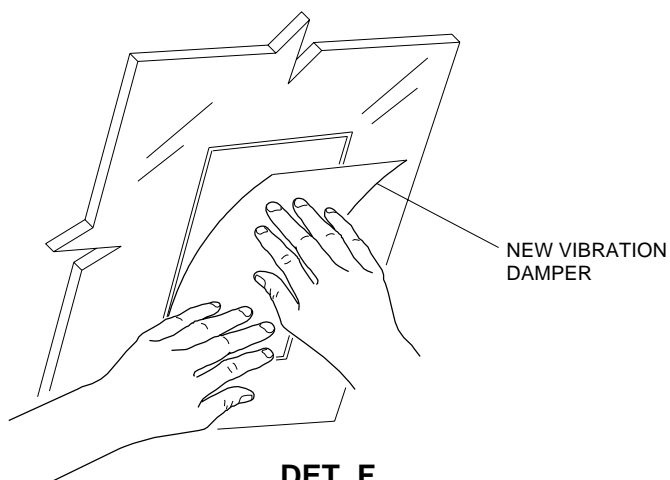
**Figure 801 - Sheet 2**



**DET. D**



**DET. E**



**DET. F**

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