



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

APU FIREWALL VIBRATION REDUCER - REPAIR

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to repair the APU Firewall Vibration Reducer.
- B. The procedures in this section are given in the sequence below.
- 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
53-32-01-300-801-A	APU FIREWALL VIBRATION REDUCER - REPAIR	ALL



AIRCRAFT MAINTENANCE MANUAL

TASK 53-32-01-300-801-A

EFFECTIVITY: ALL

2. APU FIREWALL VIBRATION REDUCER - REPAIR

A. General

(1) This task gives the instructions to repair the APU Firewall Vibration Reducer.

B. References

REFERENCE	DESIGNATION
AMM TASK 49-11-00-000-801-A/400	APU COWLING - REMOVAL
AMM TASK 49-11-00-400-801-A/400	APU COWLING - INSTALLATION
IPC 53-32-00	REAR II
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 Reducer, APU Firewall	IPC 53-32-00	1



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H. Persons Recommended

QTY	FUNCTION	PLACE
2	Do the task	Tail cone

I. Preparation

SUBTASK 841-002-A

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Make sure that the "GPU" pushbutton, on the overhead panel, is set at OFF.
- (3) Place a DO-NOT-SET-ON tag on the "GPU" pushbutton.
- (4) Make sure that the BATT 1 and BATT 2 switches, on the overhead panel, are set at OFF.
- (5) Place DO-NOT-SET-AUTO tags on the BATT 1 and BATT 2 switches.
- (6) Set the BACKUP pushbutton, on the overhead panel, to OFF. Make sure that the striped bar, on the pushbutton, comes on.
- (7) Place a DO-NOT-SET-AUTO tag on the BACKUP pushbutton.
- (8) Remove the APU cowling ([AMM TASK 49-11-00-000-801-A/400](#)).
- (9) Disconnect the connectors of the electrical cables.
- (10) Loosen the APU starter-generator flexible duct.
- (11) Remove the clamp that connects the flexible duct to the starter/generator.

J. Repair ([Figure 801](#))

SUBTASK 300-002-A

- (1) Find the extension of the damage (1).
- (2) Make use of a porous-point pen marker (3) to mark the contour (4) of the damage (1) in the vibration reducer blanket (2) ([Figure 801](#), sheet 1, DET. B).
NOTE: Mark the contour (4) in a regular geometric shape to make easier the remaining process.

CAUTION: CAREFULLY USE THE CUTTER TO PREVENT SCRATCHES IN THE FIREWALL SURFACE.

- (3) Make use of a cutter (5) to detach the aluminum foil (6) that covers the damaged vibration reducer blanket ([Figure 801](#), sheet 1, DET. C).

CAUTION: CAREFULLY REMOVE THE REMAINING VIBRATION REDUCER TO PREVENT DAMAGE TO THE FIREWALL SURFACE.

- (4) Make use of an acrylic spatula (7) to release the remaining vibration reducer ([Figure 801](#), sheet 2, DET. D).

NOTE: With a plastic bottle with nozzle (8), spread MEK to help loosen the remaining bond, if necessary ([Figure 801](#), sheet 2, DET. E).

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

NOTE:

- Make sure that the surface of the APU firewall to be inspected is clean and without sealant residues, rubber, or oil.
- Make a detailed inspection against scratches and other types of damage over the firewall surface. If there is damage, get in touch with the Embraer technical support personnel.

- (6) Fill in the gaps and voids around the damage border with sealant RTV 157 ([Figure 801](#), sheet 2, DET. F). Refer to SRM 51-20-01.
- (7) If the area of the damage is larger than 4 square inches (25.08 square cm) and/or there are more than 6 damaged spots on the blanket:
 - Use the detached aluminum foil (6) as a template to mark a contour on the new vibration reducer blanket.
 - Use a pair of scissors to cut the new blanket in the marked area.
 - Release the protective backing of the cut-out blanket to install it.
 - With the spatula, squeeze the installed blanket to eliminate the bubbles.
 - Fill in the gaps and voids around the installed blanket border with sealant RTV 157 ([Figure 801](#), sheet 2, DET. F). Refer to SRM 51-20-01.

K. Follow-on

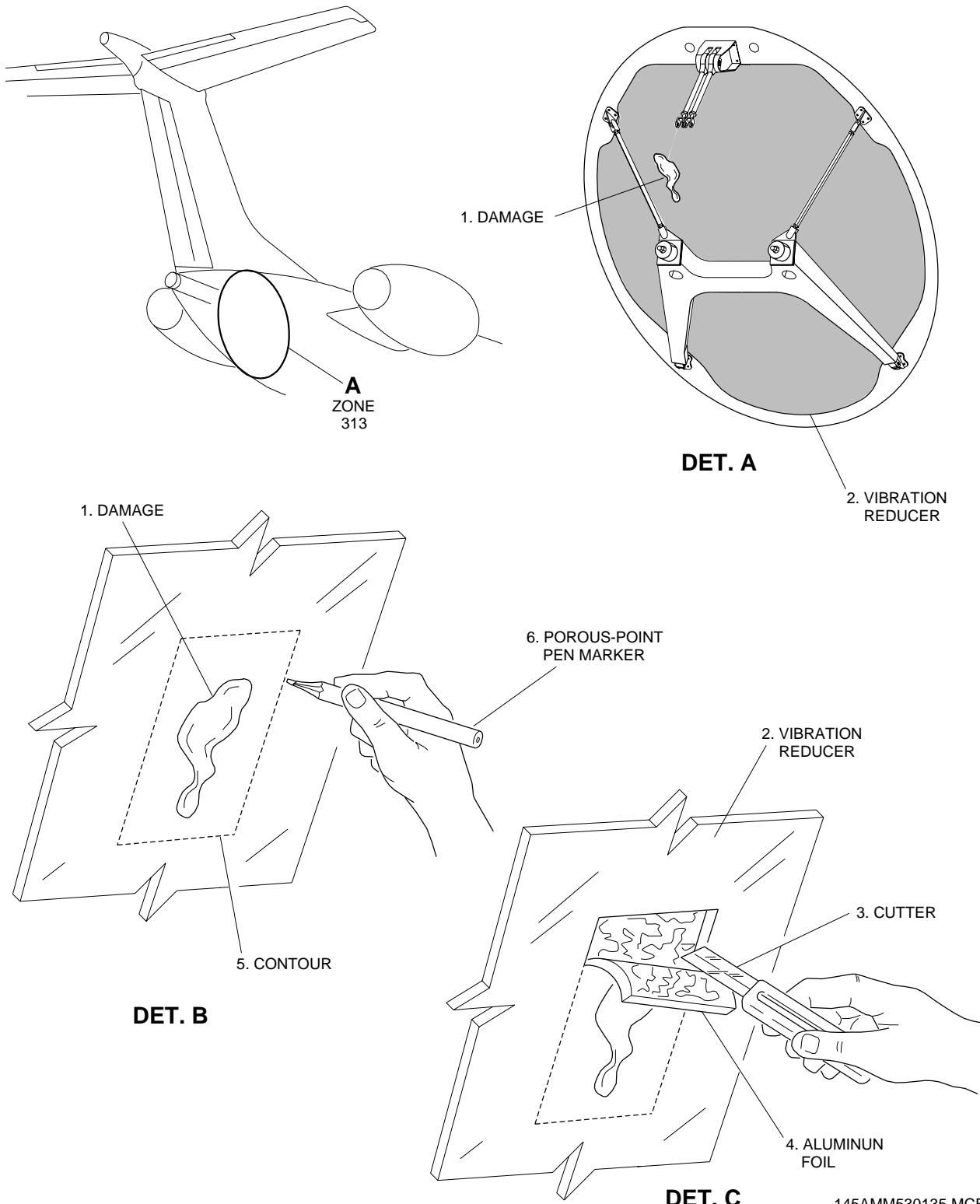
SUBTASK 842-002-A

- (1) Install the clamp to connect the flexible duct to the starter/generator.
- (2) Install the APU starter-generator flexible duct.
- (3) Connect the connectors of the electrical cables.
- (4) Install the APU cowling ([AMM TASK 49-11-00-400-801-A/400](#)).
- (5) Remove the DO-NOT-SET-AUTO tag from the BACKUP pushbutton.
- (6) Set the BACKUP pushbutton, on the overhead panel, to AUTO.
- (7) Remove the DO-NOT-SET-AUTO tags from the BATT 1 and BATT 2 switches.
- (8) Remove the DO-NOT-SET-ON tag from the "GPU" pushbutton.
- (9) Restore the aircraft to normal.

EFFECTIVITY: ALL

APU Firewall Vibration Reducer - Repair

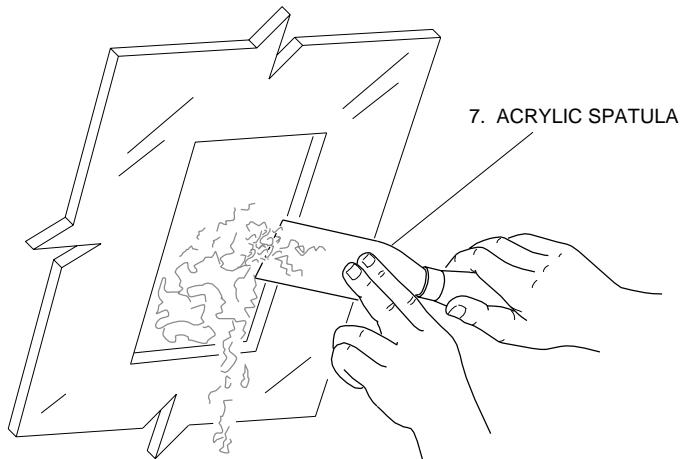
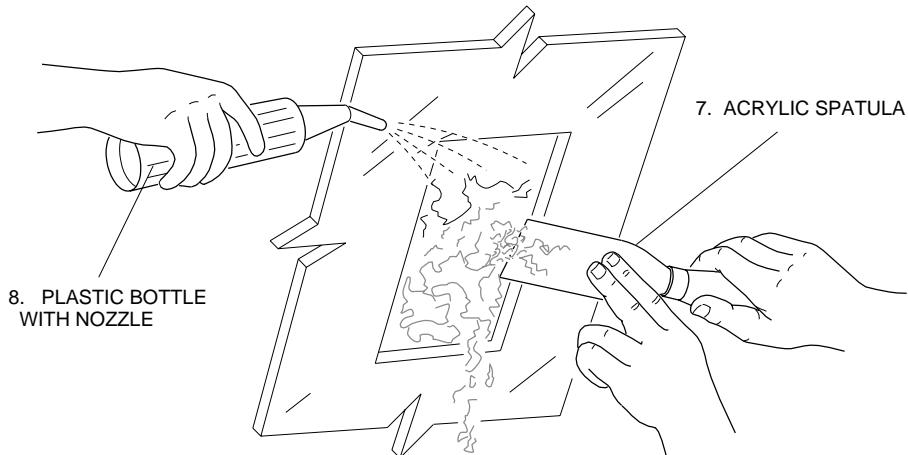
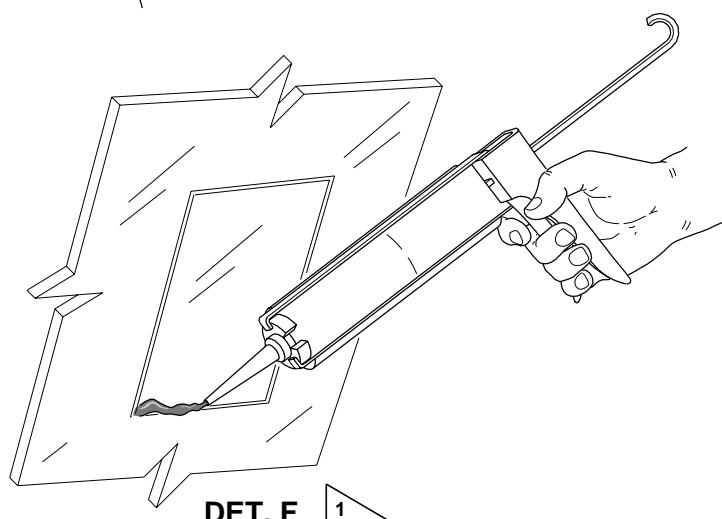
Figure 801 - Sheet 1



EFFECTIVITY: ALL

APU Firewall Vibration Reducer - Repair

Figure 801 - Sheet 2


DET. D

DET. E

DET. F


SEALANT RTV 157



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