



## AIRCRAFT MAINTENANCE MANUAL

### VIBRATION DAMPER - REMOVAL/INSTALLATION

EFFECTIVITY: ACFT MODEL(S) EMB-135

#### 1. General

- A. This section gives the procedures to remove/install the vibration damper.
- B. 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
51-70-00-000-801-A	VIBRATION DAMPER - REMOVAL	ACFT MODEL(S) EMB-135
51-70-00-400-801-A	VIBRATION DAMPER - INSTALLATION	ACFT MODEL(S) EMB-135



# AIRCRAFT MAINTENANCE MANUAL

TASK 51-70-00-000-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-135

## 2. VIBRATION DAMPER - REMOVAL

### A. General

- (1) This task gives the instructions to remove the damaged vibration damper.

### B. References

REFERENCE	DESIGNATION
CPM 51-61-00	-

### C. Zones and Accesses

Not Applicable

### D. Tools and Equipment

Not Applicable

### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Acrylic Spatula	To help release the damper	1
Commercially available	Bottle with nozzle	To spray solvent	1
Commercially available	Lint-free cloth	To clean surface	AR

### F. Consumable Materials

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

### G. Expandable Parts

Not Applicable

### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Do the task	Fuselage

### I. Preparation

#### SUBTASK 841-003-A

- (1) Before you remove the damaged damper, make sure that the aircraft is safe for maintenance.
- (2) Get access to the area of the damaged vibration damper.



J. Removal

SUBTASK 020-003-A

- (1) Identify the damaged vibration damper.

**CAUTION:** BE VERY CAREFUL WHEN YOU REMOVE THE VIBRATION DAMPER NOT TO CAUSE DAMAGE TO THE FUSELAGE SKIN.

- (2) Use an acrylic spatula to remove the damaged vibration damper.

**NOTE:** If necessary, use a plastic bottle with nozzle and spray MEK to help loosen the remaining adhesive.

- (3) Fully remove the damaged vibration damper and clean the surface with an acrylic spatula and lint-free cloth soaked in Methyl-ethyl-ketone (MEK).

**NOTE:** • Make sure that the fuselage surface is clean and without remaining adhesive, dirt, or debris.  
• Do a detailed inspection for corrosion, scratches, and other signs of damage on the fuselage skin. If you find damage, report it to the Embraer Legacy Technical Support.

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



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TASK 51-70-00-400-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-135

3. VIBRATION DAMPER - INSTALLATION

A. General

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

B. References

REFERENCE	DESIGNATION
IPC 25-80-00	THERMO ACOUSTIC INSULATION
IPC 25-81-01	PASSENGER CABIN INSULATION
IPC 25-81-02	MAIN DOOR INSULATION
IPC 25-81-04	EMERGENCY HATCH INSULATION
IPC 25-82-00	UNDERFLOOR PASSENGER CABIN INSULATION
IPC 25-82-02	INSULATION, THERMOACOUSTIC, FLOOR PANEL
IPC 25-83-00	COCKPIT THERMOACOUSTIC INSULATION
IPC 53-32-01	VIBRATION REDUCTOR - APU FIRE WALL

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Straightedge	To help install the vibration damper	1
Commercially available	Roller	To help install the vibration damper	1

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
PS700	SEALANT, FIREWALL, SYNTHETIC RUBBER COMPOUND, TYPE I	AR

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Damping, Blanket	IPC 25-80-00	1
Damping, Plate	IPC 25-81-01	1
Damping, Plate	IPC 25-81-02	1

(Continued)

<i>ITEM</i>	<i>IPC REFERENCE (VENDOR REFERENCE)</i>	<i>QTY</i>
Damping, Plate	IPC 25-81-04	1
Damping, Plate	IPC 25-82-00	1
Damping, Plate	IPC 25-82-02	1
Damping, Plate	IPC 25-83-00	1
Vibration Reductor	IPC 53-32-01	1

#### H. Persons Recommended

<i>QTY</i>	<i>FUNCTION</i>	<i>PLACE</i>
1	Do the task	Fuselage

#### I. Installation

##### SUBTASK 420-003-A

- (1) Remove the protective film from the foam side of the new vibration damper.

**CAUTION:** • BE VERY CAREFUL WHEN YOU INSTALL THE VIBRATION DAMPER NOT TO CAUSE DAMAGE TO THE FUSELAGE SKIN.  
 • BE CAREFUL WHEN YOU USE THE STRAIGHTEDGE OR ROLLER NOT TO CAUSE DAMAGE TO THE VIBRATION DAMPER.

- (2) Install the new vibration damper as follows:

- (a) Put the new vibration damper in the center of the bay.

**NOTE:** Obey the clearance of 10mm from the stringers, frames, rivet lines, and chemically milled edges to the vibration damper edges.

- (b) Start the installation of the new vibration damper from one edge.

- (c) With the aid of a straightedge or a roller, press the new vibration damper against the fuselage to remove bubbles until all the new vibration damper is correctly installed.

- (d) Apply a sealant PS700 around all contour of new vibration damper (SRM TASK 51-20-01 - Fillet Sealing).

#### J. Follow-on

##### SUBTASK 842-003-A

- (1) Remove all unwanted material and tools that you used in the replacement procedure.  
 (2) Put the aircraft back to its original configuration.

