

## 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

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.

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, SYNTETIC RUBBER COM- POUND, 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)

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
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

QTY	FUNCTION	PLACE
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.

