



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

LEVELING - MAINTENANCE PRACTICES

EFFECTIVITY: ALL

1. General

- A. This section gives the task for the aircraft leveling. The leveling procedure permits you to find the accurate center of gravity of the aircraft.
- B. The aircraft leveling is necessary for the weighing operations. It is also necessary for the wheel line-up, procedures for calibration of the fuel quantity indicating system, and for some structural inspections.
- C. The lateral and longitudinal leveling of the aircraft is done with a leveling plumb and jacks.
- 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
08-20-00-500-801-A	AIRCRAFT LEVELING IN THE PASSENGER CABIN	ALL



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TASK 08-20-00-500-801-A

EFFECTIVITY: ALL

2. AIRCRAFT LEVELING IN THE PASSENGER CABIN

A. General

- (1) This task gives the procedures to do the aircraft leveling in the passenger cabin, at frame 47. The leveling plumb must hang from the upper leveling point. The lower leveling point, on the cabin floor, is for leveling reference. Refer to [Figure 201](#).

B. References

REFERENCE	DESIGNATION
AMM TASK 07-10-00-500-801-A/200	-
AMM TASK 07-10-00-500-802-A/200	-
AMM TASK 25-21-01-000-801-A/400	-
AMM TASK 25-21-01-400-801-A/400	-
AMM TASK 25-22-04-000-801-A/400	-
AMM TASK 25-22-04-400-801-A/400	-
<a href="#">AMM TASK 25-24-01-000-801-A/400</a>	PASSENGER-CABIN FLOOR LINING - REMOVAL
<a href="#">AMM TASK 25-24-01-400-801-A/400</a>	PASSENGER-CABIN FLOOR LINING - INSTALLATION

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 005	Plumb, leveling	Aircraft leveling	

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	At the leveling point (passenger cabin)
1	Helps with the task	Jack



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I. Preparation

SUBTASK 841-002-A

- (1) Remove the right passenger seats near frame 47 (AMM TASK 25-21-01-000-801-A/400).
- (2) Remove the passenger-cabin ceiling panel near frame 47 (AMM TASK 25-22-04-000-801-A/400), to find the dropping point for the leveling plumb.
- (3) Remove the passenger-cabin floor lining near frame 47 ( AMM TASK 25-24-01-000-801-A/400), to find the reference point.
- (4) Install the leveling plumb in the upper leveling point ([Figure 201](#)).
- (5) Lift the aircraft until the tires are off the ground, as written in Complete Aircraft Jacking (AMM TASK 07-10-00-500-801-A/200).

J. Leveling

SUBTASK 580-002-A

- (1) The point of the leveling plumb will hang approximately one millimeter away from the floor.
- (2) Lift or lower the jacks to point the leveling plumb to the reference mark on the floor.

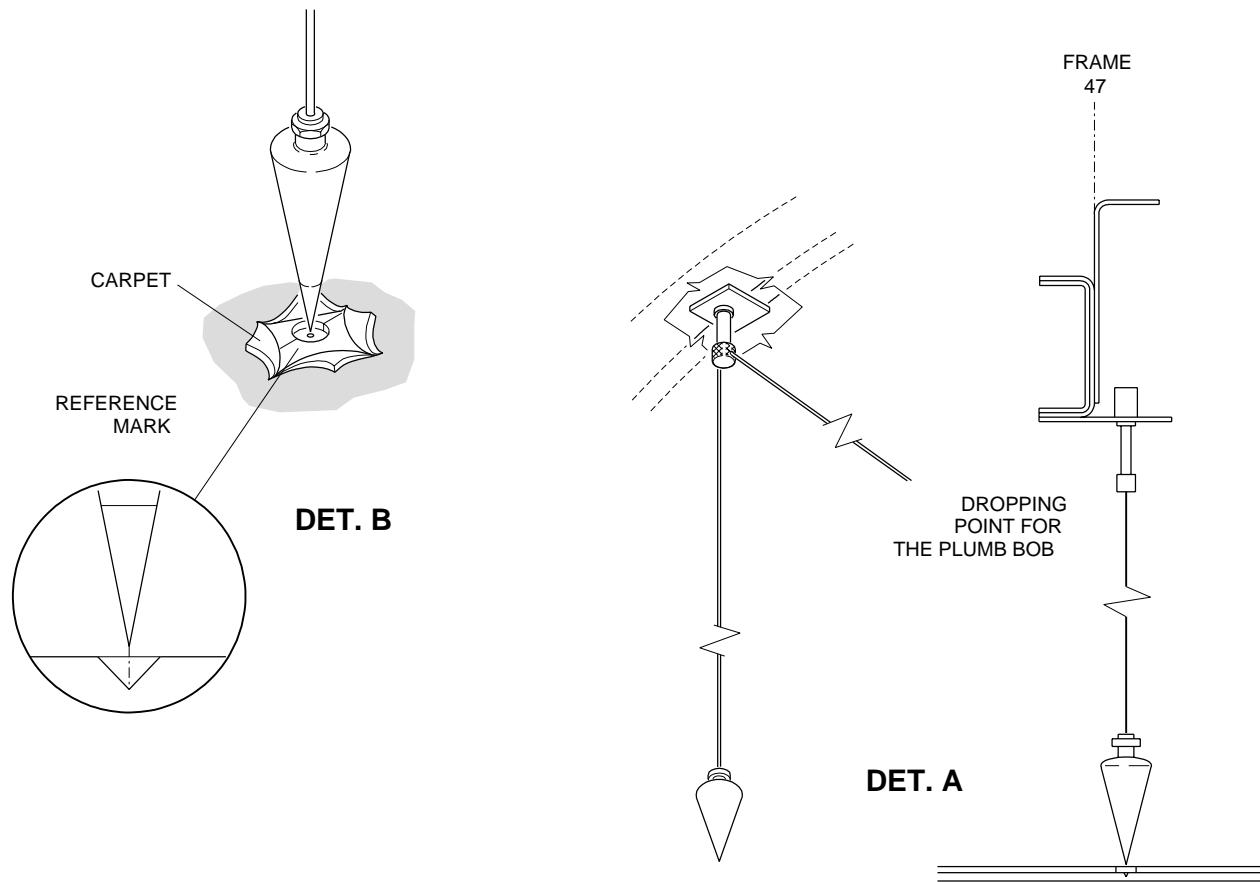
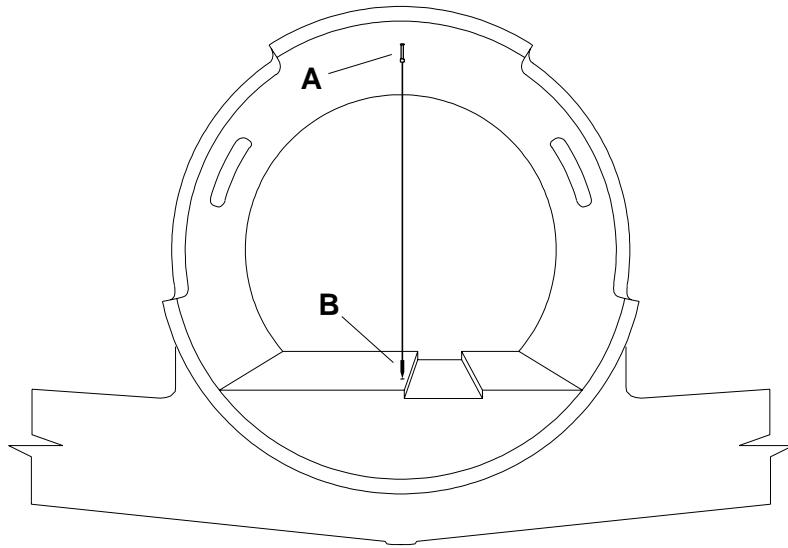
NOTE: The aircraft is leveled when the point of the leveling plumb is correctly aligned with the reference mark on the floor.

K. Follow-on

SUBTASK 842-002-A

- (1) Lower the aircraft, as written in Complete Aircraft Lowering (AMM TASK 07-10-00-500-802-A/200).
- (2) Remove the leveling plumb from the leveling point.
- (3) Install the passenger-cabin floor lining ( [AMM TASK 25-24-01-400-801-A/400](#)).
- (4) Install the passenger-cabin ceiling panel (AMM TASK 25-22-04-400-801-A/400).
- (5) Install the right passenger seats (AMM TASK 25-21-01-400-801-A/400).

**EFFECTIVITY: ALL**  
Leveling  
Figure 201



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