



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

**LANDING GEAR DOWN OVERSPEED - INSPECTION/CHECK**

EFFECTIVITY: ALL

1. General

- A. The structural and general inspections in this section are applicable after the landing gear was extended in flight at speeds above the maximum placarded permitted values.
- B. This section gives the procedure to do an inspection of the main and nose landing gear doors after a landing gear down overspeed condition.
- C. The Indicated Air Speed (IAS) limits for flight with landing-gear in transit or locked down are given in Section 2 of the AFM and named as follows:
  - $V_{LO}$  for retraction is the maximum speed at which the landing gear can be safely retracted.
  - $V_{LE}$  for extension is the maximum speed at which the landing gear can be safely extended.
  - $V_{LE}$  is the maximum speed at which the airplane can be safely flown with the landing gear extended and locked.
- D. The  $V_{LO}$  for retraction value is 200 KIAS, the  $V_{LO}$  for extension value is 250 KIAS and the  $V_{LE}$  value is 250 KIAS.
- E. 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
05-50-06-200-801-A	LANDING GEAR DOWN OVERSPEED	ALL



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TASK 05-50-06-200-801-A

EFFECTIVITY: ALL

2. LANDING GEAR DOWN OVERSPEED

A. General

- (1) The structural and general inspections in this section are applicable after the landing gear was extended in flight at speeds above the maximum placarded permitted values.
- (2) This inspection procedure is applicable to the NLG doors and to the main and auxiliary doors of the LH and RH MLG.

B. References

REFERENCE	DESIGNATION
AMM TASK 07-10-00-500-801-A/200	-
AMM TASK 07-10-00-500-802-A/200	-
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL
AMM TASK 32-10-00-200-801-A/600	MLG DOORS - INSPECTION
AMM TASK 32-20-05-200-801-A/600	NLG DOORS - INSPECTION
AMM TASK 51-50-01-820-801-A/200	-

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

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	Landing gear

I. Preparation

**SUBTASK 841-002-A**

- (1) Jack the aircraft and retract and extend the landing gears (AMM TASK 07-10-00-500-801-A/200).
- (2) Make sure that landing gear safety pins are installed on the main and nose landing gear ( [AMM TASK 32-00-01-910-801-A/200](#)).



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J. Inspection

SUBTASK 200-002-A

- (1) Examine the aircraft for signs of interference, misalignment, or distortion. In case of damage, do the aircraft alignment (AMM TASK 51-50-01-820-801-A/200).
- (2) Nose Landing Gear:
  - (a) Visually examine the nose landing gear doors for integrity ([AMM TASK 32-20-05-200-801-A/600](#)).
  - (b) Examine the nose-gear doors, their related hinges, linkage, and linkage support structure included for distortion, cracks, misalignment, displacement, skin cracks, fastener hole elongation or tear-out, pulled or missing fasteners, backlash, and other signs of a dangerous condition.
- (3) Main Landing Gear:
  - (a) Examine the main gear doors, and their related hinges, linkage, and linkage support structure, for distortion, cracks, misalignment, displacement, skin cracks, fastener hole elongation or tear-out, pulled or missing fasteners, and other signs of a dangerous condition ([AMM TASK 32-10-00-200-801-A/600](#)).

K. Follow-on

SUBTASK 842-002-A

- (1) Lower the aircraft and remove the jack (AMM TASK 07-10-00-500-802-A/200).

