



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

BRAKE USE DURING TOWBARLESS TOWING OPERATION - INSPECTION/CHECK

EFFECTIVITY: ALL

1. General

- A. During the towbarless towing procedure, if the aircraft is braked, regardless of the speed, the aircraft structure and/or nose landing gear can be damaged.
- 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
05-50-23-200-801-A	BRAKE USE DURING TOWBARLESS TOWING OPERATION	ALL



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TASK 05-50-23-200-801-A

EFFECTIVITY: ALL

2. BRAKE USE DURING TOWBARLESS TOWING OPERATION

A. General

- (1) Make an inspection of the aircraft after a brake of the aircraft during towbarless towing operation.

B. References

REFERENCE	DESIGNATION
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL
AMM TASK 32-00-02-910-801-A/200	SAFETY PIN OF THE NLG DOORS SOLENOID VALVE - INSTALLATION AND REMOVAL
AMM TASK 32-30-00-700-801-A/500	EXTENSION AND RETRACTION SYSTEM - OPERATIONAL CHECK

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	AR

I. Preparation

SUBTASK 841-002-A

- (1) Make sure that landing gear safety pins are installed on the main and nose landing gears ([AMM TASK 32-00-01-910-801-A/200](#)).
- (2) Make sure that the safety pin of the NLG doors solenoid valve are installed ([AMM TASK 32-00-02-910-801-A/200](#)).

J. Inspection

SUBTASK 212-002-A

- (1) Examine the aircraft as follows:

- (a) Use a flashlight and mirror, if necessary, to examine the nose-landing-gear attachment fittings. Make sure that the components show no signs of:
 - Distortion;
 - Flaking paint;
 - Cracks;
 - Pulled or missing fasteners.
- (b) Use a flashlight and mirror, if necessary, to examine these components of the drag-and-locking-strut:
 - Link assemblies;
 - Support fitting.
- (c) Make sure that the components show no signs of:
 - Distortion;
 - Loose fasteners.
- (d) Use a flashlight and mirror, if necessary, to examine the attachment bolts of the nose-landing-gear strut-bearing. Make sure that the components show no signs of:
 - Distortion;
 - Loose fasteners.
- (e) Use a flashlight and mirror, if necessary, to examine these components of the nose landing gear:
 - Shock absorber maneuvering;
 - Unlocking actuators.
- (f) Make sure that the components show no signs of fluid leakage.
- (g) Use a flashlight and mirror, if necessary, to examine the fuselage structure outboard of the nose-landing-gear bay. Make sure it shows no signs of:
 - Distortion;
 - Buckling;
 - Flaking paint;
 - Cracks;
 - Pulled or missing fasteners.
- (h) Use a flashlight and mirror, if necessary, to examine the fuselage skin attachments above the nose-landing-gear beam. Make sure it shows no signs of:
 - Distortion;

- Flaking paint;
 - Cracks;
 - Pulled or missing fasteners.
- (i) Use a flashlight and mirror, if necessary, to examine these components of the nose wheelwell:
- Aft nose-landing-gear wheelwell-bulkhead;
 - Fuselage structure outboard.
- (j) Make sure that the components show no signs of:
- Distortion;
 - Buckling;
 - Flaking paint;
 - Cracks;
 - Loose or missing fasteners.
- (k) Do the operational check of the extension and retraction system ([AMM TASK 32-30-00-700-801-A/500](#)).

K. Follow-on

SUBTASK 842-002-A

- (1) Do the procedure to put the aircraft back to its initial condition.
- (2) Make sure that the work area is clean and clear of tools and equipment.