



AIRCRAFT
MAINTENANCE MANUAL

NOSE LANDING GEAR UNLOCKING ACTUATOR - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the unlocking actuator of the nose landing gear.
- 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
32-33-06-000-801-A	UNLOCKING ACTUATOR OF THE NOSE LANDING GEAR - REMOVAL	ALL
32-33-06-400-801-A	UNLOCKING ACTUATOR OF THE NOSE LANDING GEAR - INSTALLATION	ALL



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 32-33-06-000-801-A

EFFECTIVITY: ALL

2. UNLOCKING ACTUATOR OF THE NOSE LANDING GEAR - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the unlocking actuator of the nose landing gear.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 29-10-00-860-802-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH EMDP
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
SB145-32-0036	-

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Rubber Gloves, Phosphate Ester-Base, Fluid-Resistant	Protection for the hands	1
Commercially available	Rubber Goggles, Phosphate Ester-Base, Fluid-Resistant	Protection for the eyes	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Nose landing gear

I. Preparation

SUBTASK 841-002-A

- (1) Make sure that the safety pins of the landing gears are installed (AMM TASK 32-00-01-910-801-A/200).



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

- (2) On the circuit breaker panel, open the ELEC PUMP 1 circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (3) For aircraft POST-MOD [SB145-32-0036](#), install the safety pin of the NLG door solenoid valve ([AMM TASK 32-00-02-910-801-A/200](#)).
- (4) Make sure that the pressure in hydraulic system 1 is fully released ([AMM TASK 29-10-00-860-802-A/200](#)).
- (5) Control the ailerons up and down, or the rudder to the left and to the right, until the pressure of the hydraulic system shows zero PSI on the EICAS.
- (6) Open access door 114CR of the nose hydraulic compartment (AMM MPP 06-41-01/100).
- (7) Release the pressure of the pax door/landing gear accumulator, installed in the nose hydraulic compartment. For this, open the discharge valve and monitor the pressure gage until it shows the nitrogen precharge.

J. Removal ([Figure 401](#))

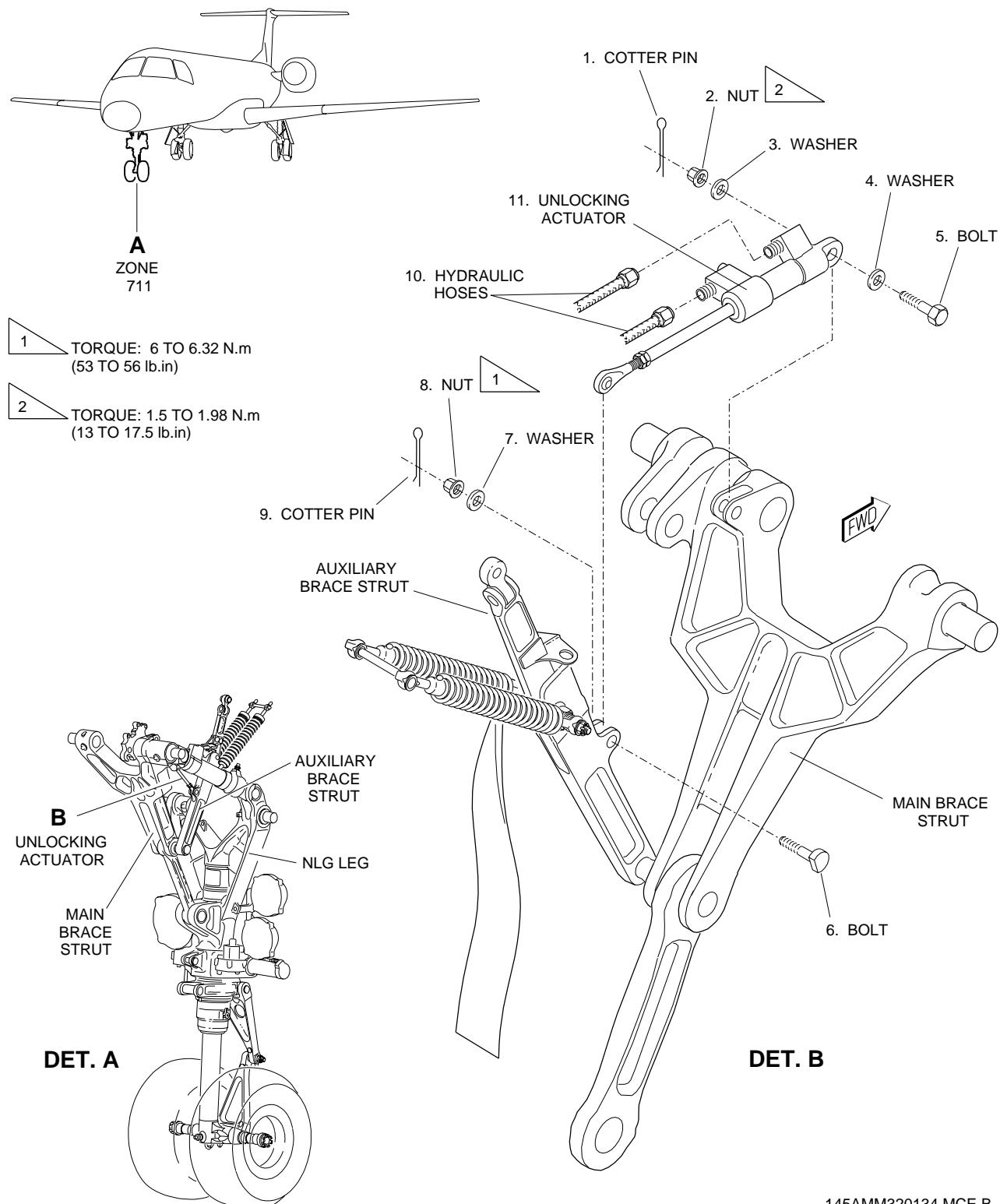
SUBTASK 020-002-A

- (1) Disconnect the two hydraulic hoses (10).
- (2) Remove the cotter pin (9), nut (8), washer (7), and bolt (6).
- (3) Remove the cotter pin (1), nut (2), washers (3) and (4), and bolt (5).
- (4) Remove the unlocking actuator (11).

EFFECTIVITY: ALL

Unlocking Actuator of the Nose Landing Gear - Removal/Installation

Figure 401



145AMM320134.MCE B



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 32-33-06-400-801-A

EFFECTIVITY: ALL

3. UNLOCKING ACTUATOR OF THE NOSE LANDING GEAR - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the unlocking actuator of the nose landing gear.

B. References

REFERENCE	DESIGNATION
AMM TASK 29-10-00-860-803-A/200	HYDRAULIC SYSTEM - BLEED OF AIR
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
AMM TASK 32-44-02-600-801-A/300	EMERGENCY/PARKING BRAKE ACCUMULATOR - CHARGE
SB145-32-0036	-

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Rubber Gloves, Phosphate Ester-Base, Fluid-Resistant	Protection for the hands	1
Commercially available	Rubber Goggles, Phosphate Ester-Base, Fluid-Resistant	Protection for the eyes	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Nose landing gear

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the unlocking actuator (11) in its installation position between the main brace strut and the auxiliary brace strut.



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

- (2) Install the bolt (5), washers (3) and (4), and nut (2) to attach the unlocking actuator (11) to the main brace strut. Apply a torque of 1.5 to 1.98 N.m (13 to 17.5 lb.in).
- (3) Install the bolt (6), washer (7), and nut (8) to attach the unlocking actuator (11) to the auxiliary brace strut. Apply a torque of 6 to 6.32 N.m (53 to 56 lb.in).
- (4) Install the cotter pins (1) and (9).
- (5) Connect the hydraulic hoses (10).

J. Follow-on

SUBTASK 842-002-A

- (1) Pressurize the emergency/parking brake accumulator ([AMM TASK 32-44-02-600-801-A/300](#)).
- (2) On the circuit breaker panel, close the ELEC PUMP 1 circuit breaker and remove the tag DO-NOT-CLOSE from it.
- (3) Energize the aircraft.
- (4) Bleed the air from the hydraulic system lines ([AMM TASK 29-10-00-860-803-A/200](#)).
- (5) Do a check on the hydraulic connections for leaks.
- (6) For aircraft POST- MOD [SB145-32-0036](#), remove the safety pin of the NLG door solenoid valve ([AMM TASK 32-00-02-910-801-A/200](#)).
- (7) Do the retraction and extension of the landing gear ([AMM TASK 32-30-00-700-801-A/500](#)) and do a check of the unlocking operation of the nose landing gear.