

## MAIN 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 main landing gear.
- B. These procedures are applicable to the LH and RH main landing gears.
- C. 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
32-33-09-000-801-A	UNLOCKING ACTUATOR OF THE MAIN LANDING GEAR - REMOVAL	ALL
32-33-09-400-801-A	UNLOCKING ACTUATOR OF THE MAIN LANDING GEAR - INSTALLATION	ALL

TASK 32-33-09-000-801-A

EFFECTIVITY: ALL

## 2. UNLOCKING ACTUATOR OF THE MAIN LANDING GEAR - REMOVAL

### A. General

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

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
<a href="#">AMM TASK 29-10-00-860-802-A/200</a>	HYDRAULIC SYSTEM - PRESSURIZATION WITH EMDP
<a href="#">AMM TASK 32-00-01-910-801-A/200</a>	LG SAFETY PIN - INSTALLATION AND REMOVAL

### 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	RH or LH Main 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](#) ).
- (2) On the circuit breaker panel, open the ELEC PUMP 1 circuit breaker and attach a DO-NOT-CLOSE tag to it.

- (3) Make sure that the pressure in hydraulic system No. 1 is fully released ( [AMM TASK 29-10-00-860-802-A/200](#)).
- (4) Control the ailerons up and down, or rudder to the left and to the right, until the pressure of the hydraulic system shows zero PSI on the EICAS.
- (5) Open access door 114CR of the nose hydraulic compartment (AMM MPP 06-41-01/100).
- (6) Release the pressure from 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](#))

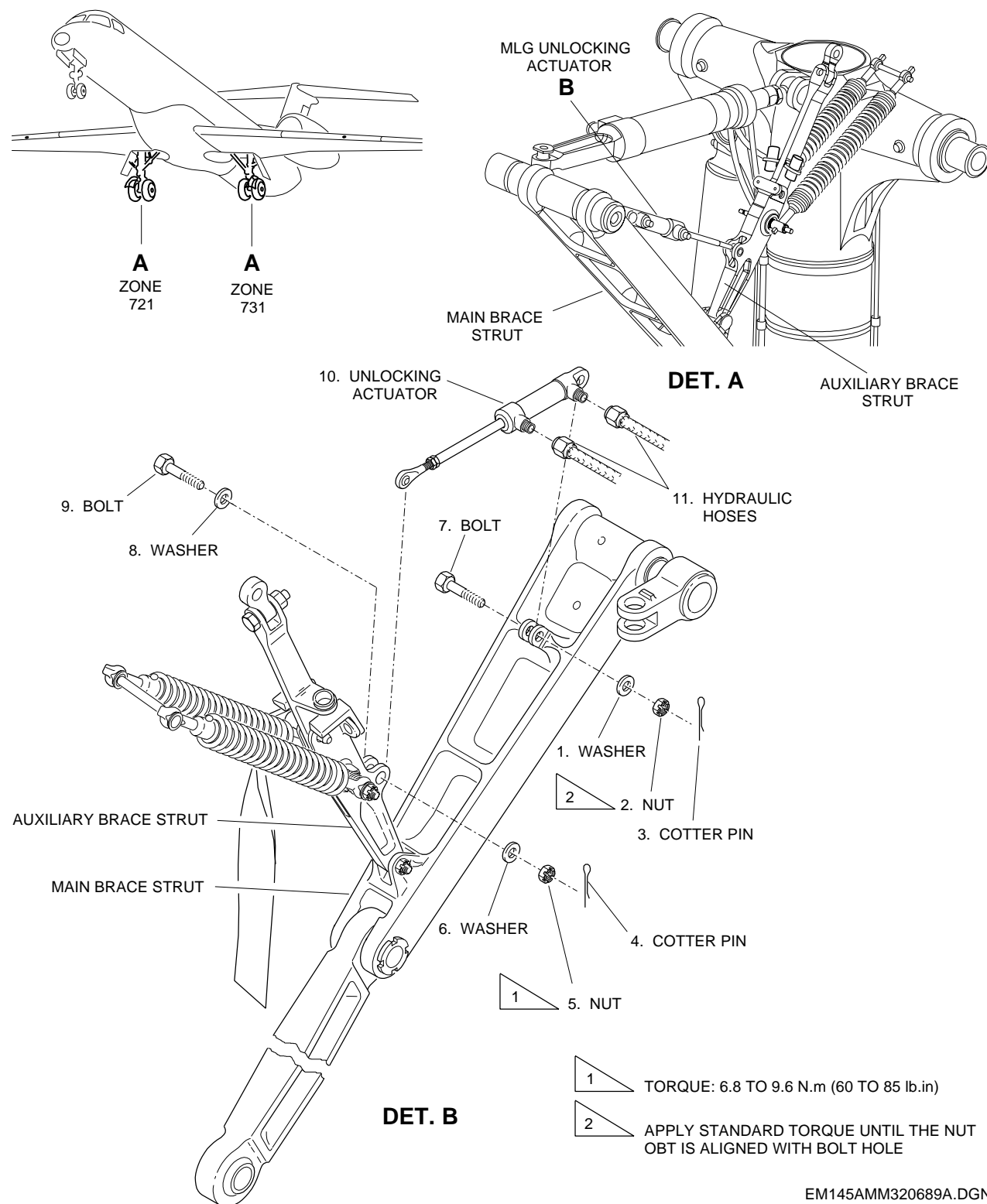
*SUBTASK 020-002-A*

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

EFFECTIVITY: ALL

Unlocking Actuator of the Main Landing Gear - Removal/Installation

Figure 401



EM145AMM320689A.DGN

TASK 32-33-09-400-801-A

EFFECTIVITY: ALL

### 3. UNLOCKING ACTUATOR OF THE MAIN LANDING GEAR - INSTALLATION

#### A. General

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

#### B. References

REFERENCE	DESIGNATION
AMM TASK 29-10-00-860-802-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH EMDP
AMM TASK 29-10-00-860-803-A/200	HYDRAULIC SYSTEM - BLEED OF AIR
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

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	RH or LH Main Landing Gear

#### I. Installation (Figure 401)

##### SUBTASK 420-002-A

- (1) Put the unlocking actuator (10) in its installation position between the main brace strut and the auxiliary brace strut.
- (2) Install the bolt (7), washer (1), and nut (2) to attach the unlocking actuator (10) to the main brace strut, apply standard torque.

- (3) Install the bolt (9), washers (6) and (8), and nut (5) to attach the unlocking actuator (10) to the auxiliary brace strut.

Apply a torque of 6.8 to 9.6 N.m (60 to 85 lb.in) to the nut (5).

- (4) Install the cotter pins (3) and (4).
- (5) Connect the hydraulic hoses (11).

J. Follow-on

*SUBTASK 842-002-A*

- (1) Pressurize the door/landing gear accumulator by pressurizing the hydraulic system 1 ([AMM TASK 29-10-00-860-802-A/200](#)).
- (2) On the circuit breaker panel, close the ELEC PUMP 1 circuit breaker and remove the tag DO-NOT-CLOSE tag from it.
- (3) Energize the aircraft.
- (4) Do the bleed of 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) 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 related landing gear leg.