



AIRCRAFT MAINTENANCE MANUAL

MAIN LANDING GEAR UPLock BOX - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedure to remove/install the main landing gear (MLG) uplock box.
- B. The access to the MLG uplock box is got through the MLG compartment.
- 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
32-33-10-000-801-A	MLG UPLock BOX - REMOVAL	ALL
32-33-10-400-801-A	MLG UPLock BOX - INSTALLATION	ALL

TASK 32-33-10-000-801-A
EFFECTIVITY: ALL
2. MLG UPLock BOX - REMOVAL
A. General

- (1) This task gives the procedures to remove the MLG uplock box.

B. References

<i>REFERENCE</i>	<i>DESIGNATION</i>
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

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>PURPOSE</i>	<i>QTY</i>
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
Commercially available	Drip Pan	To collect the hydraulic fluid when you disconnect the hydraulic line	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

<i>QTY</i>	<i>FUNCTION</i>	<i>PLACE</i>
1	Does the task	MLG compartment

I. Preparation
SUBTASK 841-002-A

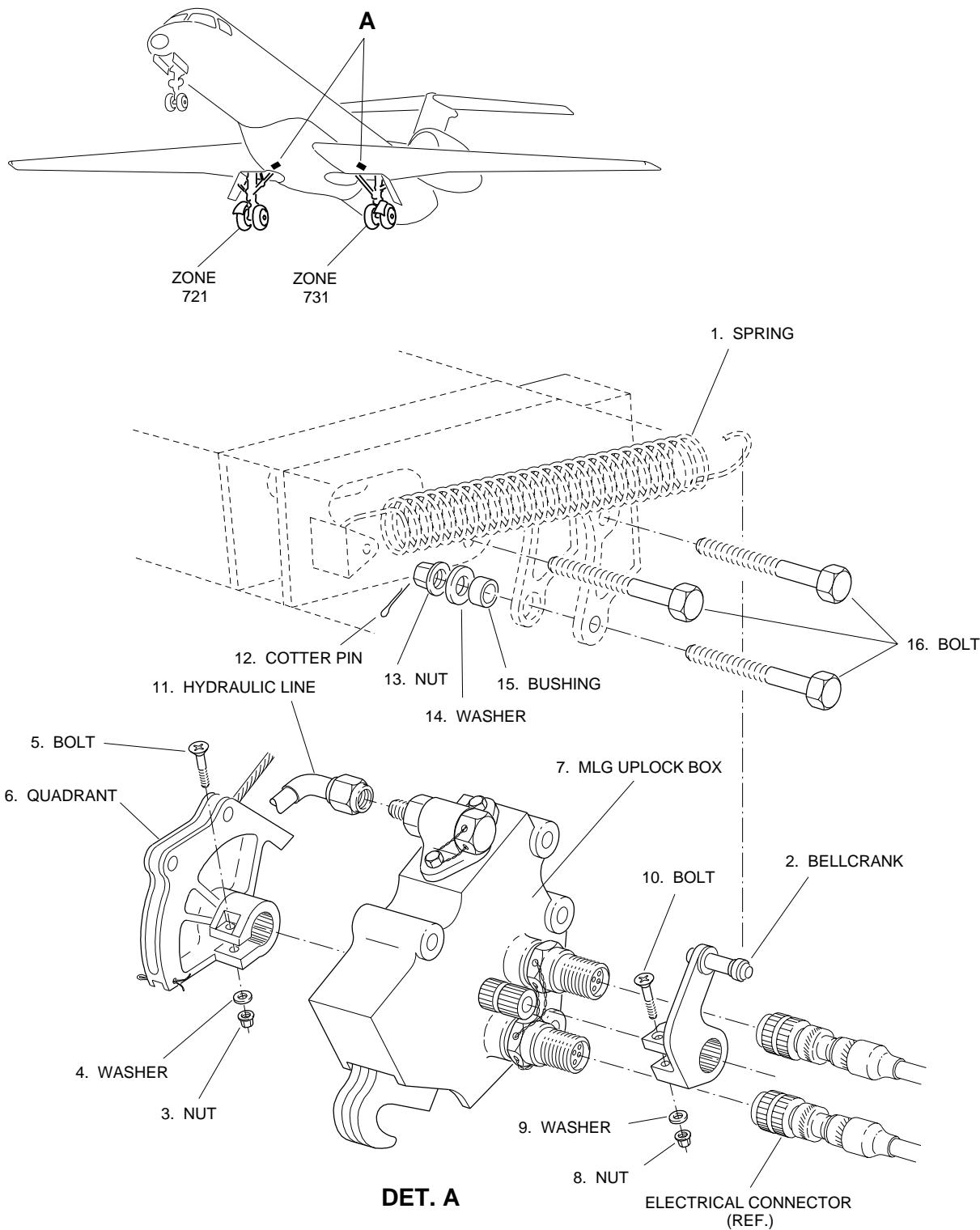
- (1) Make sure that the landing gear safety pins are installed ([AMM TASK 32-00-01-910-801-A/200](#)).
- (2) On the circuit breaker panel, open the ELEC PUMP 1 and CMD circuit breakers and attach a DO-NOT-CLOSE tag to them.

- (3) Make sure that the pressure in hydraulic system No. 1 is fully released ([AMM TASK 29-10-00-860-802-A/200](#)).
- (4) Disconnect the electrical connectors from the LG uplock proximity switches.
- (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 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) Release the spring (1) from the bellcrank (2).
- (2) Remove the nut (3), washer (4), and bolt (5) from the quadrant (6).
- (3) Remove the quadrant (6) from the MLG uplock box (7).
- (4) Remove the nut (8), washer (9), and bolt (10) from the bellcrank (2).
- (5) Remove the bellcrank (2) from the MLG uplock box (7).
- (6) Disconnect the hydraulic line (11).
- (7) Remove the cotter pin (12), nuts (13), washers (14), bushing (15), and bolts (16) from the MLG uplock box (7).
- (8) Remove the MLG uplock box (7).

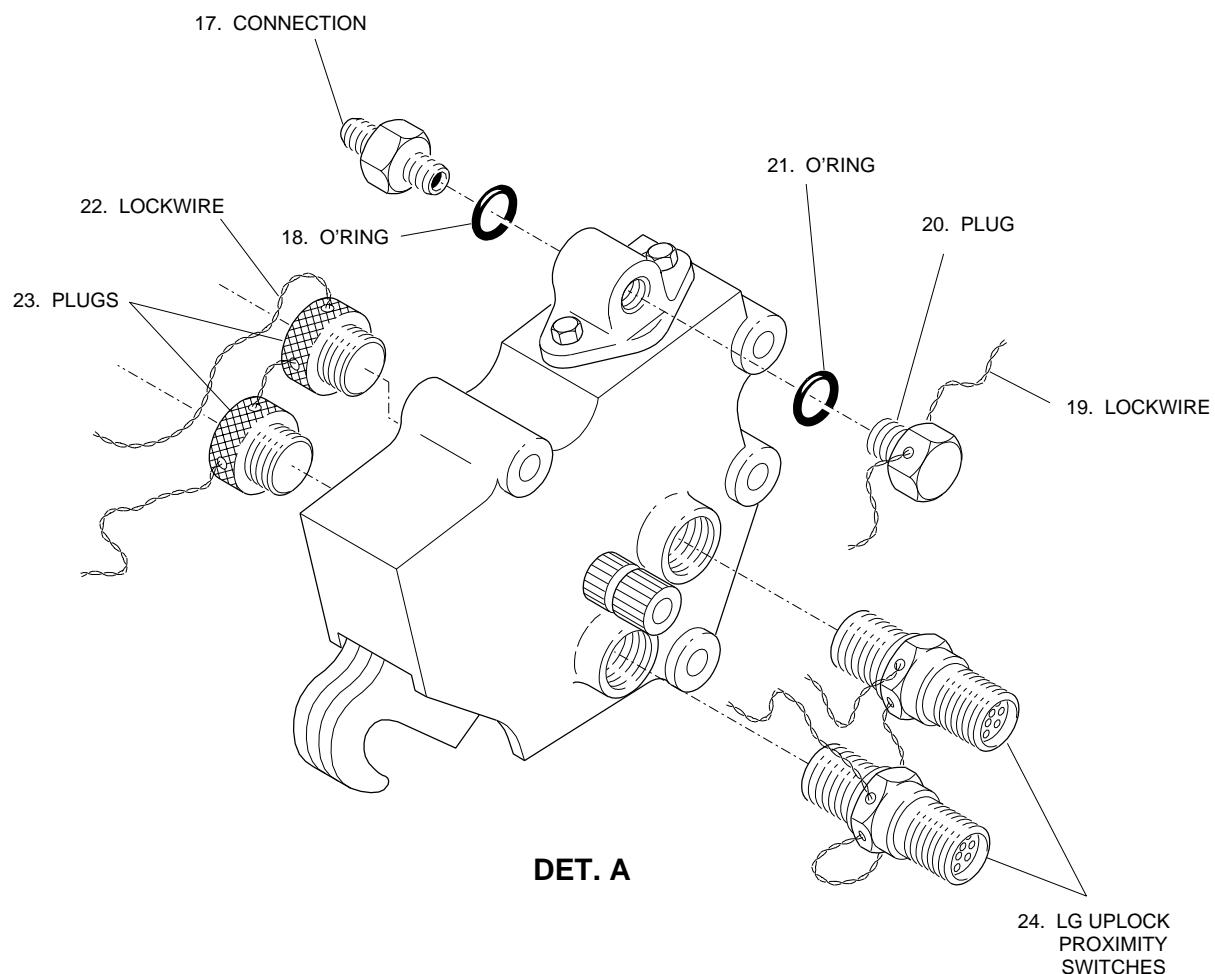
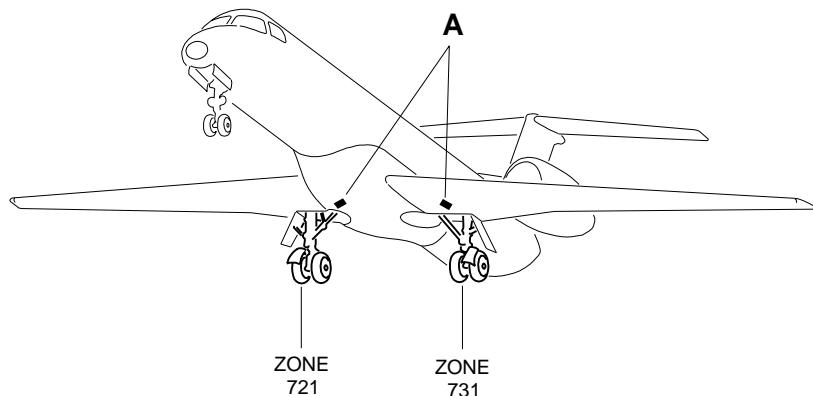
EFFECTIVITY: ALL
MLG Uplock Box - Removal/Installation
Figure 401


145AMM320030.MCE A

EFFECTIVITY: ALL

Connections of the MLG Uunlock Box - Removal/Installation

Figure 402



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TASK 32-33-10-400-801-A

EFFECTIVITY: ALL

3. MLG UPLOCK BOX - INSTALLATION

A. General

(1) This task gives the procedures for installation of the MLG uplock box.

B. References

REFERENCE	DESIGNATION
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
AMM TASK 32-34-00-700-801-A/500	LG EMERGENCY EXTENSION - OPERATIONAL AND FUNCTIONAL CHECKS
AMM TASK 32-34-03-700-801-A/500	FREE-FALL CONTROL CABLES - CHECK
AMM TASK 32-44-02-600-801-A/300	EMERGENCY/PARKING BRAKE ACCUMULATOR - CHARGE
AMM TASK 32-61-01-000-801-A/400	UPLOCK PROXIMITY SWITCH - REMOVAL
AMM TASK 32-61-01-400-801-A/400	UPLOCK PROXIMITY SWITCH - INSTALLATION
IPC 32-33-10	MLG UPLOCK BOX

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

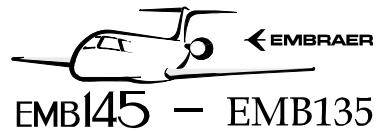
ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Rubber Gloves, Phosphate Ester-Base, Fluid-Resistant	Protection for the hands	1
Commercially available	Rubber Goggles, Phosphate Ester-Base, Fluid-Resistant	Protection for the eyes	1

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MIL-L-87177	Lektro-Tech Super Corr-B-12350	As necessary

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-rings	IPC 32-33-10	2/LRU



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(Continued)

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Lockwire	IPC 32-33-10	AR
Cotter pin	IPC 32-33-10	3/LRU

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	MLG compartment

I. Preparation (Figure 402)

SUBTASK 841-003-A

- (1) Remove the connection (17) with the related O-ring (18) from the used MLG uplock box.
- (2) Remove the lockwire (19) and plug (20) with the related O-ring (21) from the used MLG uplock box.
- (3) Discard the O-rings removed in steps (1) and (2).
- (4) Remove the lockwire (22) and plugs (23) from the used MLG uplock box.
- (5) Install the connection (17) with the related new O-rings (18) in the position where you will connect the hydraulic line.
- (6) Install the plug (20) with the related new O-rings (21).
- (7) Safety the plug (20).
- (8) Remove the LG uplock proximity switches (24) from the used MLG uplock box. Then install them in the position where you will connect the electrical connectors ([AMM TASK 32-61-01-000-801-A/400](#)) and ([AMM TASK 32-61-01-400-801-A/400](#)).
- (9) Install the plugs (23). Then safety them.

J. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the MLG uplock box (7) on its support.
- (2) Install the bolts (16), bushing (15), washers (14), nuts (13), and cotter pin (12).
- (3) Put the spring actuation bellcrank (2) on the shaft of the MLG uplock box (7).
- (4) Install the bolt (10), washer (9), and nut (8).
- (5) Put the quadrant (6) on the shaft of the MLG uplock box (7).
- (6) Install the bolt (5), washer (4), and nut (3).
- (7) Connect the hydraulic line (11).

- (8) Connect the spring (1) to the bellcrank (2).

K. Follow-on

SUBTASK 842-002-A

- (1) Connect the electrical connectors to the LG uplock proximity switches.

NOTE: Before the installation of the connector, apply the Lektro-Tech Super Corr-B-12350 into the plug connector to prevent corrosion and to clean the contacts.

- (2) Check the tension of the cable ([AMM TASK 32-34-03-700-801-A/500](#)).
- (3) Pressurize the Emergency/Parking brake accumulator ([AMM TASK 32-44-02-600-801-A/300](#)).
- (4) On the circuit breaker panel, close the ELEC PUMP 1 and CMD circuit breakers and remove the DO-NOT-CLOSE tag from them.
- (5) Do the bleed of air from the hydraulic system lines ([AMM TASK 29-10-00-860-803-A/200](#)).
- (6) Do the functional check of the LDG emergency extension ([AMM TASK 32-34-00-700-801-A/500](#)).
- (7) Do the operational check of the landing gear (extension/retraction cycle). Make sure that there are no leaks in the MLG uplock box ([AMM TASK 32-30-00-700-801-A/500](#)).
- (8) Make sure that there is no “LG NOSE UP PROXIMITY SW FAIL” message on the CMC.