

## LANDING GEAR UPLOCK PROXIMITY SWITCH - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

### 1. General

- A. This section gives the procedures for the removal/installation and deactivation/reactivation of the uplock proximity switches of the landing gear system.
- B. This procedure is applicable to the six uplock proximity switches.
- C. The uplock proximity switches are installed in the uplock boxes of the main (LH and RH) and nose landing gears. Each uplock box has two proximity switches.
- D. 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
32-61-01-000-801-A	UPLOCK PROXIMITY SWITCH - REMOVAL	ALL
32-61-01-400-801-A	UPLOCK PROXIMITY SWITCH - INSTALLATION	ALL
32-61-01-040-801-A	UPLOCK PROXIMITY SWITCH - DEACTIVATION PROCEDURE	ALL
32-61-01-440-801-A	UPLOCK PROXIMITY SWITCH - REACTIVATION PROCEDURE	ALL

TASK 32-61-01-000-801-A

EFFECTIVITY: ALL

## 2. UPLOCK PROXIMITY SWITCH - REMOVAL

### A. General

- (1) This procedure gives the instructions to remove the uplock proximity switches of the landing gear system.
- (2) If the electrical connector (3) or (4) presents signs of damage, contamination or corrosion, do the maintenance procedures on the electrical connector as follows:

To clean the electrical connector, refer to WM 20-50-00/201.

To replace the electrical connector, use the repair kit. Refer to IPC 32-61-00. Obey the instructions of the applicable Wiring Manual, Chapter WM 20-50-00/201, Standard Practices.

### B. References

REFERENCE	DESIGNATION
<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
<a href="#">AMM TASK 32-00-02-910-801-A/200</a>	SAFETY PIN OF THE NLG DOORS SOLENOID VALVE - INSTALLATION AND REMOVAL
<a href="#">AMM TASK 32-60-00-910-801-A/200</a>	LANDING GEAR PROXIMITY SWITCH AND HARNESS ELECTRICAL CONNECTORS - RESTORATION AND PROTECTION
IPC 32-61-00	LDG INDICATION
<a href="#">SB145-32-0036</a>	-
WM 20-50-00/201	-

### 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	Nose landing gear or RH or LH MLG compartment

I. Preparation

*SUBTASK 841-002-A*

- (1) On aircraft PRE-MOD [SB145-32-0036](#), make sure that the pressure in hydraulic system No. 1 is fully released ( [AMM TASK 29-10-00-860-802-A/200](#)).
- (2) On aircraft POST-MOD [SB145-32-0036](#), install safety pin of the NLG door solenoid valve ([AMM TASK 32-00-02-910-801-A/200](#)).
- (3) On the circuit breaker panel, open the IND 1 and IND 2 circuit breakers and attach a DO-NOT-CLOSE tag to it.
- (4) Make sure that the safety pins of the landing gears are installed ( [AMM TASK 32-00-01-910-801-A/200](#)).
- (5) Identify the proximity switch to be removed.

J. Removal ([Figure 401](#)) ([Figure 402](#))

*SUBTASK 020-002-A*

**NOTE:** This procedure can be applicable to the uplock proximity switch of the main landing gear ([Figure 401](#)) or nose landing gear ([Figure 402](#)).

**CAUTION:** BE CAREFUL WHEN YOU REMOVE THE HEAT-SHRINKABLE BOOT TO PREVENT DAMAGE TO THE ELECTRICAL CABLE AND ITS CONNECTOR.

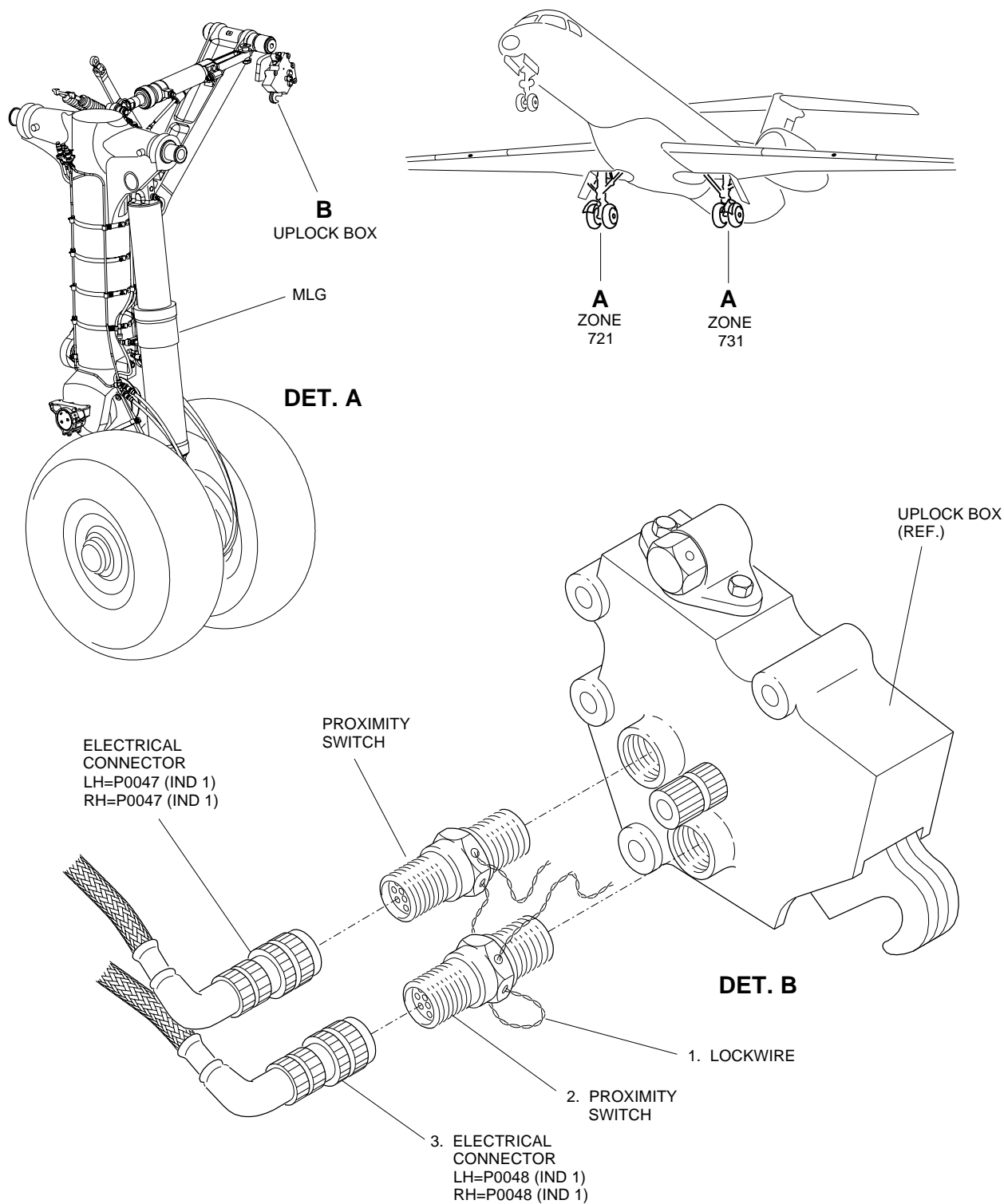
- (1) For connector that already has heat-shrinkable boot, remove it with a cutting tool.
- (2) Cut the lockwire (1) or (6), as applicable.
- (3) Disconnect the electrical connector (3) or (4), as applicable.
- (4) If the electrical connector (3) or (4) presents signs of damage, contamination or corrosion, do the maintenance procedures on the electrical connector. Refer to [AMM TASK 32-60-00-910-801-A/200](#).
- (5) Remove the proximity switches (2) or (5), as applicable.

**NOTE:** Remove nut (7) to loosen the proximity switch (5).

EFFECTIVITY: ALL

Uplock Proximity Switch of MLG - Removal/Installation

Figure 401

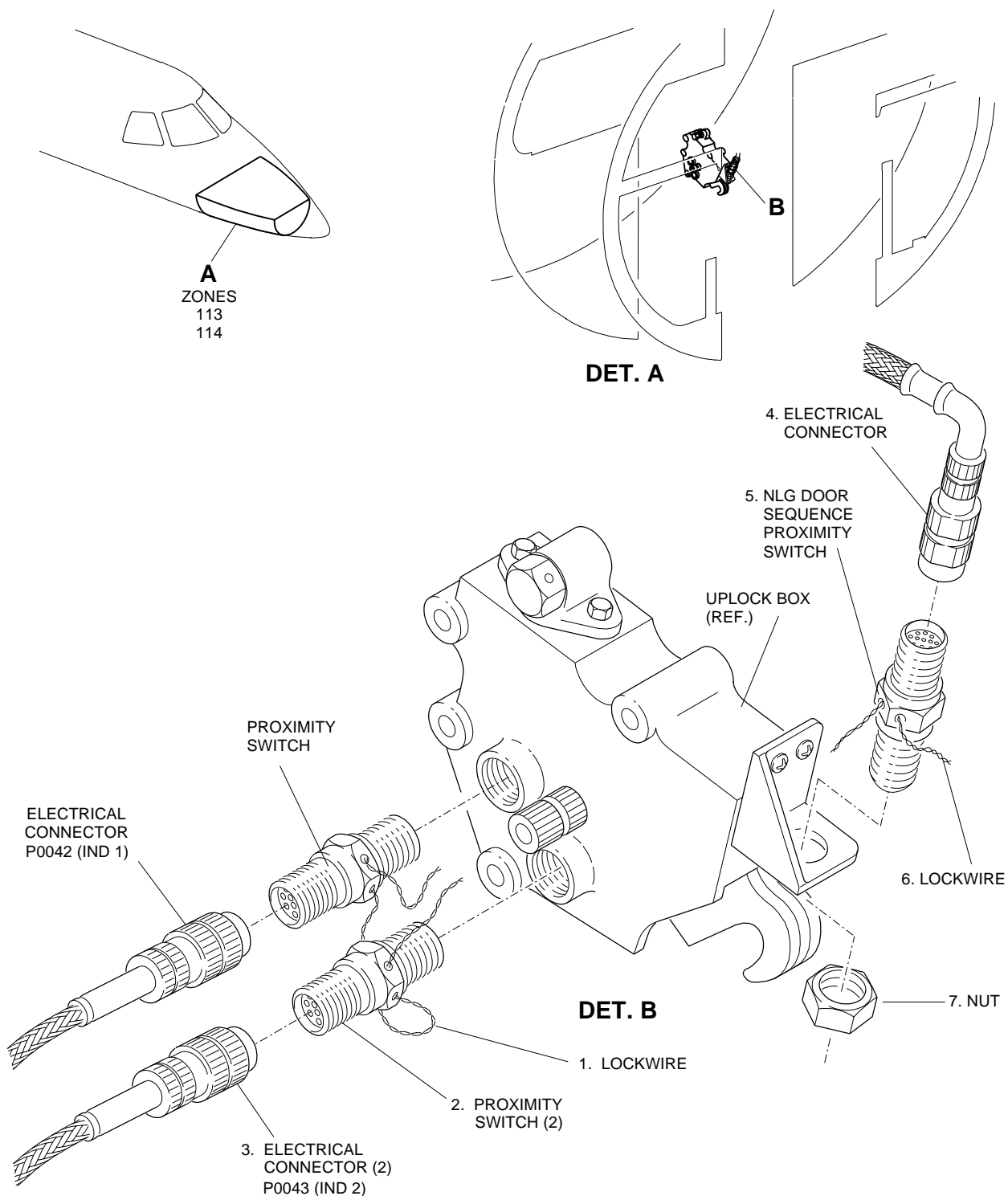


145AMM320123C.MCE

EFFECTIVITY: ALL

Uplock Proximity Switch of NLG - Removal/Installation

Figure 402



145AMM320124C.MCE

TASK 32-61-01-400-801-A

EFFECTIVITY: ALL

### 3. UNLOCK PROXIMITY SWITCH - INSTALLATION

#### A. General

- (1) This procedure gives the instructions to install the unlock proximity switch of the landing gear system.

#### B. References

REFERENCE	DESIGNATION
AMM TASK 32-00-02-910-801-A/200	SAFETY PIN OF THE NLG DOORS SOLENOID VALVE - INSTALLATION AND REMOVAL
AMM TASK 32-60-00-910-801-A/200	LANDING GEAR PROXIMITY SWITCH AND HARNESS ELECTRICAL CONNECTORS - RESTORATION AND PROTECTION
AMM TASK 32-63-05-700-801-A/500	PROXIMITY SWITCH (SENSOR) - FUNCTIONAL CHECK
AMM TASK 32-63-05-700-802-A/500	PROXIMITY SWITCH (SENSOR) - FUNCTIONAL CHECK - ALTERNATIVE PROCEDURE
IPC 32-61-01	UNLOCK PROXIMITY SENSORS
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 Goggles, Phosphate Ester-Base, Fluid-Resistant	Protection for Eyes	1
Commercially available	Rubber Gloves, Phosphate Ester-Base, Fluid-Resistant	Protection for Hands	1

#### F. Consumable Materials

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

#### G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
lockwire	IPC 32-61-01	AR

(Continued)

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
lockwire	IPC 32-61-01	AR

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Nose landing gear or RH or LH MLG compartment

I. Installation (Figure 401) (Figure 402)

SUBTASK 420-002-A

**NOTE:** This procedure can be applicable to the uplock proximity switch of the main landing gear (Figure 401) or nose landing gear (Figure 402).

- (1) Install the proximity switch (2) or (5), as applicable in the uplock box.

**NOTE:** Use nut (7) to attach the proximity switch (5).

**WARNING: DO NOT GET LUBRICANT AND ANTICORROSIVE FILM PN LEKTRO-TECH SUPER CORR-A IN YOUR MOUTH OR EYES, OR ON YOUR SKIN. PUT ON A PROTECTIVE SPLASH GOGGLE AND GLOVES WHEN YOU USE LUBRICANT AND ANTICORROSIVE FILM PN LEKTRO-TECH SUPER CORR-A. KEEP LUBRICANT AND ANTICORROSIVE FILM PN LEKTRO-TECH SUPER CORR-A AWAY FROM SPARKS, FLAME, AND HEAT. LUBRICANT AND ANTICORROSIVE FILM PN LEKTRO-TECH SUPER CORR-A IS A POISONOUS AND FLAMMABLE SUBSTANCE.**

- (2) Connect the electrical connector (3) or (4), as applicable.

**NOTE:** Before the connection of the connector, apply the Lektro-Tech Super Corr-A into the plug connector to prevent corrosion and to clean the contacts.

- (3) Safety the proximity switch (2) or (5) with lockwire (1) or (6), as applicable.

**NOTE:** After the installation of the proximity switches, it is not necessary to adjust them.

- (4) Do the protection of the proximity switch (2) or (5) and the electrical connector (3) or (4) against corrosion. Refer to [AMM TASK 32-60-00-910-801-A/200](#).

J. Follow-on

SUBTASK 842-002-A

- (1) Do the specific test of the proximity switch. Refer to [AMM TASK 32-63-05-700-801-A/500](#) or [AMM TASK 32-63-05-700-802-A/500](#).
- (2) On the circuit breaker panel, close the IND 1 and IND 2 circuit breakers and remove the DO-NOT-CLOSE tags from them.
- (3) On 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](#)).

TASK 32-61-01-040-801-A

EFFECTIVITY: ALL

#### 4. UPLOCK PROXIMITY SWITCH - DEACTIVATION PROCEDURE

##### A. General

- (1) This task refers to item 32-60-00 Landing Gear Proximity Switch of the DDPM.
- (2) It is permitted to dispatch the airplane with one uplock proximity switch and one down lock proximity switch inoperative in each landing gear leg if the remaining proximity switches operate correctly.

##### B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 32-63-05-700-801-A/500</a>	PROXIMITY SWITCH (SENSOR) - FUNCTIONAL 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	Nose landing gear or RH or LH MLG compartment

##### I. Deactivation Procedure

###### *SUBTASK 040-002-A*

- (1) Do the check of the proximity switch. Refer to [AMM TASK 32-63-05-700-801-A/500](#).
- (2) Write in the aircraft technical logbook that you did the deactivation procedure for the landing gear uplock proximity switch.

TASK 32-61-01-440-801-A  
EFFECTIVITY: ALL

5. UPLOCK PROXIMITY SWITCH - REACTIVATION PROCEDURE

A. General

(1) This task refers to item 32-60-00 Landing Gear Proximity Switch of the DDPM.

B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 32-61-01-000-801-A/400</a>	UPLOCK PROXIMITY SWITCH - REMOVAL
<a href="#">AMM TASK 32-61-01-400-801-A/400</a>	UPLOCK PROXIMITY SWITCH - INSTALLATION

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	Nose landing gear or RH or LH MLG compartment

I. Reactivation Procedure

**SUBTASK 440-002-A**

- (1) Remove the unserviceable proximity switch. Refer to [AMM TASK 32-61-01-000-801-A/400](#).
- (2) Install a serviceable proximity switch. Refer to [AMM TASK 32-61-01-400-801-A/400](#)
- (3) Write in the aircraft technical logbook that you did the reactivation procedure for the landing gear uplock proximity switch.

