

## NOSE-LANDING-GEAR AIR/GROUND (WOW) PROXIMITY SWITCH - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

### 1. General

- A. This section gives the procedures to remove and install the air/ground (WOW) proximity switch of the nose landing gear.
- B. This procedure is applicable to the air/ground (WOW) proximity switch.
- C. The air/ground (WOW) proximity switch is installed on the nose landing gear leg.
- 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
32-63-02-000-801-A	AIR/GROUND (WOW) PROXIMITY SWITCH OF NLG - REMOVAL	ALL
32-63-02-400-801-A	AIR/GROUND (WOW) PROXIMITY SWITCH OF NLG - INSTALLATION	ALL

TASK 32-63-02-000-801-A

EFFECTIVITY: ALL

## 2. AIR/GROUND (WOW) PROXIMITY SWITCH OF NLG - REMOVAL

### A. General

(1) This procedure gives the instructions to remove the air/ground (WOW) proximity switch of the nose landing gear.

(2) If the electrical connector (1) 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 32-63-00. 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 32-63-00	-
<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 leg

I. Preparation

*SUBTASK 841-002-A*

- (1) On the circuit breaker panel, open the AIR/GND A, AIR/GND B, AIR/GND C, and AIR/GND D circuit breakers and attach a DO-NOT-CLOSE tag to them.
- (2) 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](#)).
- (3) 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](#)).
- (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](#))

*SUBTASK 020-002-A*

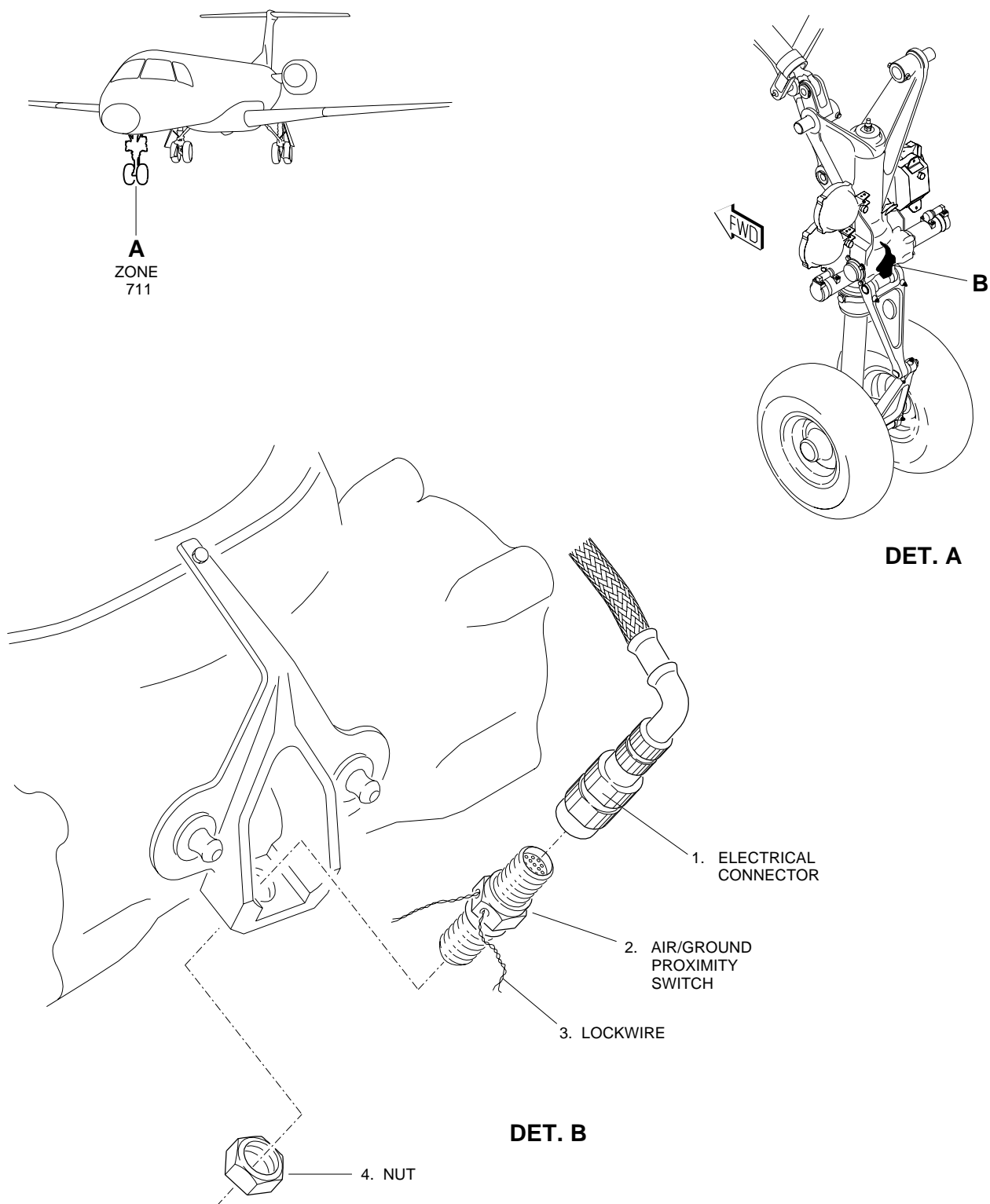
**CAUTION:** BE CAREFUL WHEN YOU REMOVE THE HEAT-SHRINKABLE BOOT TO PREVENT DAMAGE TO THE ELECTRICAL CABLE AND ITS CONNECTOR.

- (1) For connector that already has heat-shrinkable boot, remove it with a cutting tool.
- (2) Cut the lockwire (3).
- (3) Disconnect the electrical connector (1).
- (4) If the electrical connector (1) 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 nut (4).
- (6) Remove the proximity switch (2).

**EFFECTIVITY: ALL**

**Air/Ground (WOW) Proximity Switch of NLG - Removal/Installation**

**Figure 401**



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TASK 32-63-02-400-801-A

EFFECTIVITY: ALL

### 3. AIR/GROUND (WOW) PROXIMITY SWITCH OF NLG - INSTALLATION

#### A. General

- (1) This procedure gives the instructions to install the air/ground (WOW) proximity switch of the nose landing gear.

#### 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 32-63-00-700-801-A/500	AIR/GROUND SYSTEM - OPERATIONAL CHECK
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
AMM TASK 32-63-05-700-803-A/500	PROXIMITY SWITCH (SENSOR) - CLEARANCE (GAP) ADJUSTMENT
AMM TASK 32-63-05-700-804-A/500	PROXIMITY SWITCH (SENSOR) - CLEARANCE (GAP) ADJUSTMENT - ALTERNATIVE PROCEDURE
IPC 32-63-02	AIR / GROUND PROXIMITY SWITCH NLG
SB145-32-0036	-
SWPM 20-50-00	-

#### 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

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

## G. Expendable Parts

<i>ITEM</i>	<i>IPC REFERENCE (VENDOR REFERENCE)</i>	<i>QTY</i>
Lockwire	IPC 32-63-02	AR

## H. Persons Recommended

<i>QTY</i>	<i>FUNCTION</i>	<i>PLACE</i>
1	Does the task	Nose landing gear leg

## I. Installation (Figure 401)

### SUBTASK 420-002-A

(1) Put the proximity switch (2) in its installation position on the landing gear leg.

(2) Install the nut (4).

**WARNING:** DO NOT GET LUBRICANT AND ANTICORROSIVE FILM PN LEKTRO-TECH SUPER CORR-B-12350 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-B-12350. KEEP LUBRICANT AND ANTICORROSIVE FILM PN LEKTRO-TECH SUPER CORR-B-12350 AWAY FROM SPARKS, FLAME, AND HEAT. LUBRICANT AND ANTICORROSIVE FILM PN LEKTRO-TECH SUPER CORR-B-12350 IS A POISONOUS AND FLAMMABLE SUBSTANCE.

**WARNING:** MAKE SURE THAT THE CONNECTION BETWEEN PLUG AND RECEPTACLE HAVE A GOOD MATING. IT IS NECESSARY TO MAKE SURE THAT THE PLUG COMPLETELY COVERS THE RED STRIPE ON THE RECEPTACLE BODY. IF YOU NOT OBEY THIS PROCEDURE, DAMAGE AND/OR CORROSION TO THE PROXIMITY SWITCH CAN OCCUR.

(3) Connect the electrical connector (1). Refer to SWPM 20-50-00.

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

(4) Safety the proximity switch (2) and nut (4).

(5) Do the procedures to protection on the proximity switch (2) and the electrical connector (1) against corrosion. Refer to [AMM TASK 32-60-00-910-801-A/200](#).

J. Follow-on

*SUBTASK 842-002-A*

- (1) Specific test of the proximity switch or the adjustment of the clearance between the proximity switch and its target is usually not necessary, but if the proximity switch and its mounting target show signs of damage, displacement from correct relative position, or they were replaced, do these procedures:
  - Specific test procedure in [AMM TASK 32-63-05-700-801-A/500](#) or the alternative specific test procedure which uses the BREAK OUT BOX TEST in [AMM TASK 32-63-05-700-802-A/500](#).
  - Adjustment procedure in [AMM TASK 32-63-05-700-803-A/500](#) or the alternative adjustment procedure which uses only the FEELER GAGE in [AMM TASK 32-63-05-700-804-A/500](#).
- (2) On the circuit breaker panel, close the AIR/GND A, AIR/GND B, AIR/GND C, and AIR/GND D 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](#)).
- (4) Energize the aircraft and do an operational check of the Air/Ground (WOW) system ([AMM TASK 32-63-00-700-801-A/500](#)).

