



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

NOSE-LANDING-GEAR DOOR-SEQUENCE PROXIMITY SWITCH - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the door-sequence proximity switch of the nose landing gear.
- B. The door-sequence proximity switch is installed behind the nose-landing-gear uplock box.
- 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
32-63-03-000-801-A	DOOR-SEQUENCE PROXIMITY SWITCH ALL OF THE NLG - REMOVAL	
32-63-03-400-801-A	DOOR-SEQUENCE PROXIMITY SWITCH ALL OF THE NLG - INSTALLATION	



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TASK 32-63-03-000-801-A

EFFECTIVITY: ALL

2. DOOR-SEQUENCE PROXIMITY SWITCH OF THE NLG - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the door-sequence proximity switch of the nose landing gear.
- (2) If the electrical connector (1) has signs of damage, contamination or corrosion, do the maintenance procedures on the electrical connector as follows:
 1. To clean the electrical connector, refer to WM 20-50-00/201.
 2. 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
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
AMM TASK 32-60-00-910-801-A/200	LANDING GEAR PROXIMITY SWITCH AND HARNESS ELECTRICAL CONNECTORS - RESTORATION AND PROTECTION
IPC 32-63-00	-
SB145-32-0036	-
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



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H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Behind the nose-landing-gear uplock box

I. Preparation

SUBTASK 841-002-A

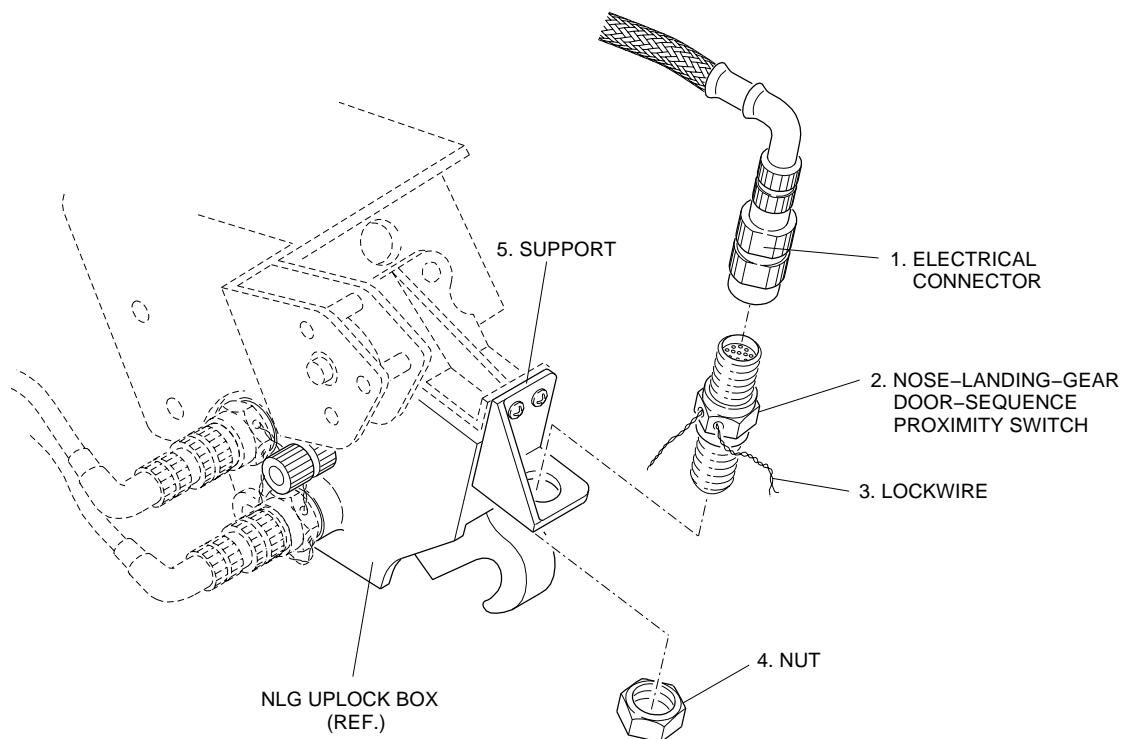
- (1) On the circuit breaker panel, open the IND 2 circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) On aircraft PRE-MOD [SB145-32-0036](#), make sure that the pressure in hydraulic system No. 1 is fully released ([AMM TASK 29-10-00-860-802-A/200](#)).
- (3) On aircraft POST-MOD [SB145-32-0036](#), install the safety pin to 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](#)).

J. Removal (Figure 401)

SUBTASK 000-002-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 a 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) has 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) from the support (5).

EFFECTIVITY: ALL
Nose-landing-Gear Door-Sequence Proximity Switch - Removal/Installation
Figure 401

DET. B

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TASK 32-63-03-400-801-A

EFFECTIVITY: ALL

3. DOOR-SEQUENCE PROXIMITY SWITCH OF THE NLG - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the door-sequence 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 32-30-00-700-801-A/500	EXTENSION AND RETRACTION SYSTEM - OPERATIONAL CHECK
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
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	-

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Rubber Goggles resistant to phosphate ester-base fluid	Protection for Eyes	1
Commercially available	Rubber Gloves resistant to phosphate ester-base fluid	Protection for Hands	1

F. Consumable Materials

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



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G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Lockwire	IPC 32-63-02	AR

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Behind the nose-landing-gear uplock box

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the proximity switch (2) in its installation position on the NLG uplock box.
- (2) Install the nut (4).

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.

- (3) Connect the electrical connector (1).

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

- (4) Safety the proximity switch (2) and nut (4).
- (5) Do the protection of 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) A 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 if 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](#).



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- (2) On the circuit breaker panel, close the IND 2 circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (3) On aircraft POST-MOD [SB145-32-0036](#), remove the safety pin from the NLG door solenoid valve ([AMM TASK 32-00-02-910-801-A/200](#)).
- (4) Do an operational check of the nose-landing-gear door-sequence proximity switch ([AMM TASK 32-30-00-700-801-A/500](#)) Extension and Retraction - Adjustment/Test.

