



AIRCRAFT  
MAINTENANCE MANUAL

**NOSE-LANDING-GEAR DOOR OPEN PROXIMITY SWITCH - REMOVAL/INSTALLATION**

EFFECTIVITY: JAA CERTIFIED AIRCRAFT

1. General

- A. This section gives the procedures to remove and install the door-open indication proximity switch of the nose landing gear.
- B. The door-open proximity switch is installed in the nose landing gear compartment, near the door actuators.
- 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
32-63-04-000-801-A	NLG DOOR-OPEN PROXIMITY SWITCH - REMOVAL	JAA CERTIFIED AIRCRAFT
32-63-04-400-801-A	NLG DOOR-OPEN PROXIMITY SWITCH - INSTALLATION	JAA CERTIFIED AIRCRAFT



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TASK 32-63-04-000-801-A

EFFECTIVITY: JAA CERTIFIED AIRCRAFT

2. NLG DOOR-OPEN PROXIMITY SWITCH - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the door-open proximity switch of the nose landing gear.
- (2) If the electrical connector (1) shows signs of damage, contamination or corrosion, do the maintenance procedures for the electrical connector that 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	Near the door actuators in the NLG 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 the safety pin of the NLG door solenoid valve ([AMM TASK 32-00-02-910-801-A/200](#)).
- (3) Make sure that the safety pins of the landing gears are installed ([AMM TASK 32-00-01-910-801-A/200](#)).
- (4) On the circuit breaker panel, open the IND 1, IND 2 and DOOR CMD circuit breakers and attach a DO-NOT-CLOSE tag to each one of them.

### J. Removal (Figure 401)

#### SUBTASK 000-002-A

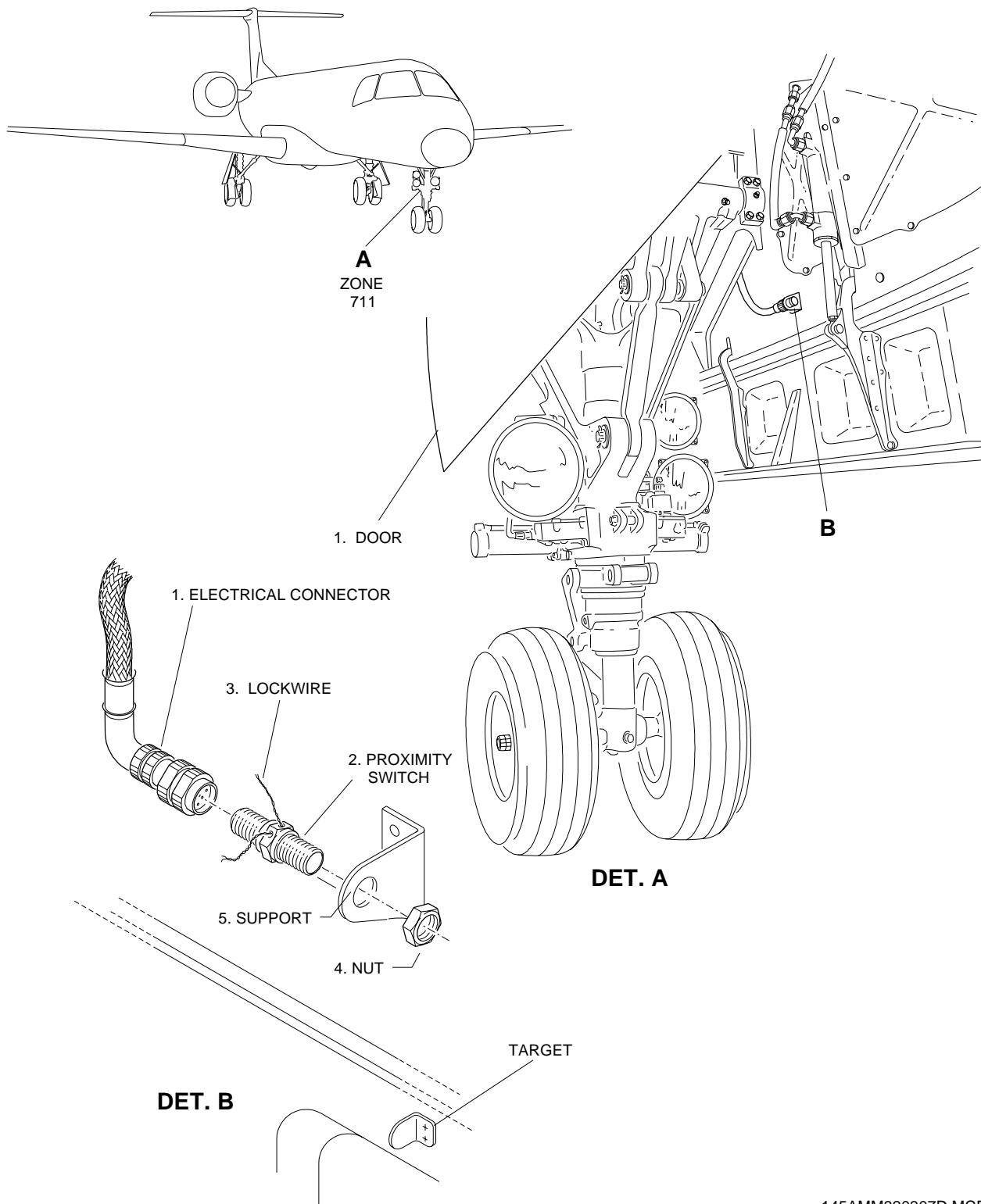
**CAUTION: BE CAREFUL WHEN YOU REMOVE THE HEAT-SHRINKABLE BOOT TO PREVENT DAMAGE TO THE ELECTRICAL CABLE AND ITS CONNECTOR.**

- (1) For connector that already has 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).

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Nose-Landing-Gear Door-Open Proximity Switch - Removal/Installation

Figure 401



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**TASK 32-63-04-400-801-A**
*EFFECTIVITY: JAA CERTIFIED AIRCRAFT*
**3. NLG DOOR-OPEN PROXIMITY SWITCH - INSTALLATION**
**A. General**

- (1) This procedure gives the instructions to install the door-open proximity switch of the nose landing gear.

**B. References**

<i>REFERENCE</i>	<i>DESIGNATION</i>
AMM TASK 32-00-02-910-801-A/200	SAFETY PIN OF THE NLG DOORS SOLENOID VALVE - INSTALLATION AND REMOVAL
AMM TASK 32-20-05-700-801-A/500	NOSE-LANDING-GEAR DOOR-OPEN INDICATION - 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**

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>PURPOSE</i>	<i>QTY</i>
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**

<i>SPECIFICATION (BRAND)</i>	<i>DESCRIPTION</i>	<i>QTY</i>
MIL-L-87177	Lektro-Tech Super Corr-A	AR



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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	Near the door actuators in the NLG compartment

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Install the right proximity switch (2) into the support (5).
- (2) Install the nut (4).
- (3) Tighten and safety the proximity sensor nut (4) onto the proximity switch (2).

**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.

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

**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.

- (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](#).
- (6) Do steps (1) to (5) for the left proximity switch.

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 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](#).



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- 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 IND 1, IND 2 and DOOR CMD circuit breakers and remove the DO-NOT-CLOSE tag from them.
- (3) Do an operational check of the nose-landing-gear door-open proximity switch ([AMM TASK 32-20-05-700-801-A/500](#)).
- (4) 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](#)).

