



AIRCRAFT MAINTENANCE MANUAL

7-DEGREE PROXIMITY SWITCH - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the instructions to remove and install the 7-Degree Proximity Switch of the nose wheel steering system.
- B. 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
32-50-06-000-801-A	7-DEGREE PROXIMITY SWITCH - RE- MOVAL	ALL
32-50-06-400-801-A	7-DEGREE PROXIMITY SWITCH - IN- STALLATION	ALL



EMB145 - EMB135

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TASK 32-50-06-000-801-A

EFFECTIVITY: ALL

2. 7-DEGREE PROXIMITY SWITCH - REMOVAL

A. General

(1) This task gives the instructions to remove and install the 7-Degree Proximity Switch of the nose wheel steering system.

(2) If the electrical connector (3) presents signs of damage, contamination or corrosion, do the maintenance procedures on the electrical connector:

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

To replace the electrical connector, use the repair kit. Refer to IPC 32-50-00. 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 32-00-02-910-801-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 32-50-00	NOSE WHEEL STEERING SYSTEM
S.B.145-32-0036	-
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

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	NLG



I. Preparation

SUBTASK 841-002-A

- (1) On the circuit breaker panel, open the STEER circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) On aircraft PRE-MOD. [S.B.145-32-0036](#), 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. [S.B.145-32-0036](#), install the safety pin of the NLG door solenoid valve ([AMM TASK 32-00-02-910-801-A/200](#)).

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

SUBTASK 020-002-A

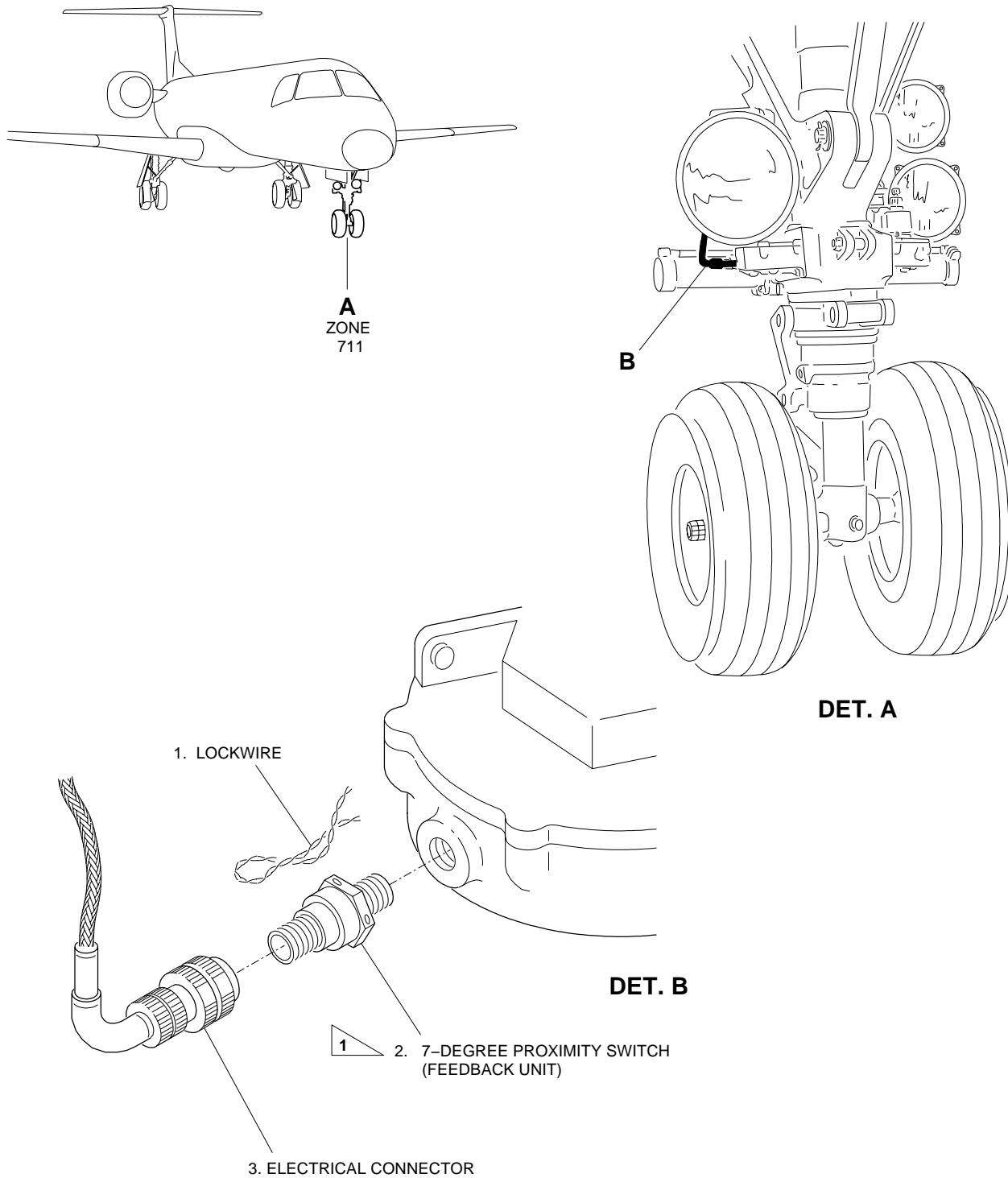
CAUTION: BE CAREFUL WHEN YOU REMOVE THE HEAT-SHRINKABLE BOOT TO PREVENT DAMAGE TO ELECTRICAL CABLE AND ITS CONNECTOR.

- (1) For connector that already has heat-shrinkable boot, remove it with a cutting tool.
- (2) Disconnect the electrical connector (3).
- (3) If the electrical connector (3) 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](#).
- (4) Remove the lockwire (1).
- (5) Remove the 7-degree proximity switch (2).

EFFECTIVITY: ALL

7-Degree Proximity Switch (Feedback Unit) - Removal/Installation

Figure 401



1 TORQUE: 16.3–21.7 N.m (144–192 lb.in)

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TASK 32-50-06-400-801-A
EFFECTIVITY: ALL
3. 7-DEGREE PROXIMITY SWITCH - INSTALLATION
A. General

- (1) This procedure gives the instructions to install the 7-Degree Proximity Switch of the nose wheel steering system.

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 32-50-00-700-801-A/500	NOSE WHEEL STEERING SYSTEM DISENGAGEMENT - OPERATIONAL CHECK
AMM TASK 32-60-00-910-801-A/200	LANDING GEAR PROXIMITY SWITCH AND HARNESS ELECTRICAL CONNECTORS - RESTORATION AND PROTECTION
S.B.145-32-0036	-

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>PURPOSE</i>	<i>QTY</i>
Commercially available	Torque wrench (torque range, refer to Figure 401)	To tighten the 7-degree proximity switch	

E. Auxiliary Items

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>PURPOSE</i>	<i>QTY</i>
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>
MS20995-C32	Lockwire	AR
MIL-L-87177	Lektro-Tech Super Corr-B-12350	AR

G. Expandable Parts

Not Applicable



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H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	NLG

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Install the 7-Degree Proximity Switch (2).
- (2) Tighten the 7-Degree Proximity Switch (2) to a torque of 16.3-21.7 N.m (144-192 lb.in).

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.

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

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) Lock the 7-Degree Proximity Switch (2) with the lockwire (1).
- (5) Do the protection of the 7-Degree Proximity Switch (2) and the electrical connector (3) against corrosion. Refer to [AMM TASK 32-60-00-910-801-A/200](#).

J. Follow-on

SUBTASK 842-002-A

- (1) On the circuit breaker panel, close the STEER circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (2) Do the operational check of the nose wheel steering system disengagement ([AMM TASK 32-50-00-700-801-A/500](#)).
- (3) On aircraft POST-MOD. [S.B.145-32-0036](#), remove the safety pin from the NLG doors solenoid valve ([AMM TASK 32-00-02-910-801-A/200](#)).