

NOSE LANDING GEAR TAXI LIGHT - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the nose-landing-gear taxi light lamp and the nose-landing-gear taxi light assembly.
- 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
33-42-02-000-801-A	NOSE-LANDING-GEAR TAXI LIGHT LAMP - REMOVAL	ALL
33-42-02-400-801-A	NOSE-LANDING-GEAR TAXI LIGHT LAMP - INSTALLATION	ALL
33-42-02-000-802-A	NOSE-LANDING-GEAR TAXI LIGHT ASSEMBLY - REMOVAL	ALL
33-42-02-400-802-A	NOSE-LANDING-GEAR TAXI LIGHT ASSEMBLY - INSTALLATION	ALL

TASK 33-42-02-000-801-A

EFFECTIVITY: ALL

2. NOSE-LANDING-GEAR TAXI LIGHT LAMP - REMOVAL

A. General

(1) This procedure gives the instructions to remove the nose-landing-gear taxi light lamp.

B. References

REFERENCE	DESIGNATION
51-0831-1	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
711		Nose landing gear

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Commercially available	Cloth which does not release lint	AR
RTV-157	Adhesive/Sealant	AR
MEP 13-073	Cleaning solvent (Rhodiasolve E-23)	AR

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Gasket	51-0831-1	AR

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	At the nose landing gear

I. Preparation

SUBTASK 841-002-A

(1) Make sure that the TAXI switch, on the overhead panel, is in the OFF position.

J. Removal (Figure 401)

SUBTASK 020-002-A

EFFECTIVITY: FOR AIRCRAFT PRE-MOD S.B. 145-33-0028 AND PRE-MOD S.B. 145-33-0034

- (1) Remove the four nuts (1), screws (4), and tubings (3). If they are damaged, remove the tubings (3) from the four screws (4) and discard them.
- (2) Remove the lamp retainer (6).
- (3) Carefully remove the lamp (5).
- (4) Remove the two screws (2) from the two terminals (7).
- (5) Remove the lamp (5) from the light assembly (8).

K. Removal (Figure 402)

SUBTASK 020-003-A

EFFECTIVITY: FOR AIRCRAFT POST-MOD S.B. 145-33-0028 OR POST-MOD S.B. 145-33-0034

- (1) Remove the four nuts (1), screws (4) and tubings (3). If they are damaged, remove the tubings (3) from the four screws (4) and discard them.
- (2) Remove the lamp retainer (6).
- (3) Carefully remove the lamp (5).
- (4) Remove the two screws (2) from the two terminals (7).
- (5) Remove the lamp (5) from the light assembly (8). If they are damaged, replace the gasket from the light assembly (8) as follows:
 - (a) Use a plastic spatula to remove all damaged gaskets from the light assembly (8).
 - (b) Use a clean cloth moist with cleaning solvent to remove old adhesive residues from the light assembly (8).

WARNING: AIR PRESSURE MUST NOT BE OF MORE THAN 30 PSI (270 KPA). OR INJURY OR DEATH TO PERSONNEL CAN OCCUR.

- (c) Dry the parts with compressed air or wipe them with a clean cloth and let them air-dry.

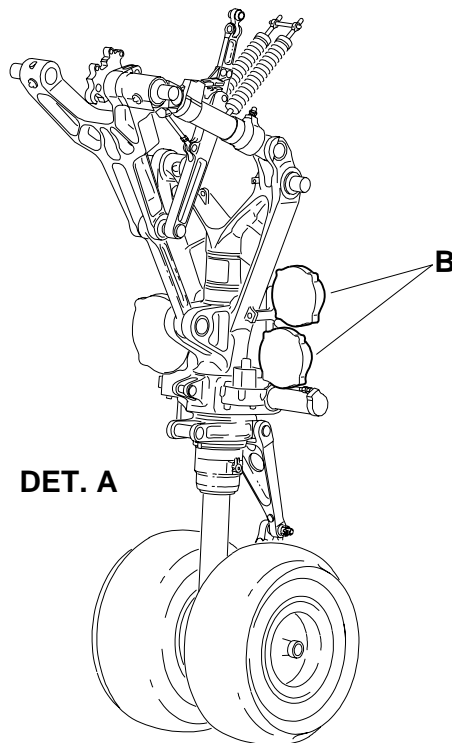
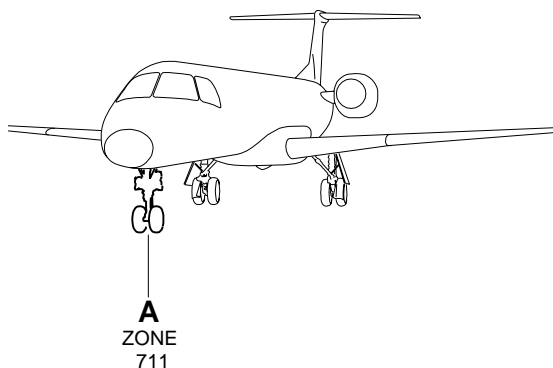
WARNING: ADHESIVE IS VERY FLAMMABLE. DO NOT INHALE ITS VAPORS AND DO NOT LET IT TOUCH YOUR SKIN. OBEY THE FIRE PRECAUTIONS.

- (d) Apply adhesive to the new gasket/light assembly (8) interface.
- (e) Put the gasket on the light assembly (8). Use a clean cloth to remove excess adhesive. Let it air-dry for 4 hours.
- (f) Do steps (d) through (e) again, as necessary for the remaining three gaskets.

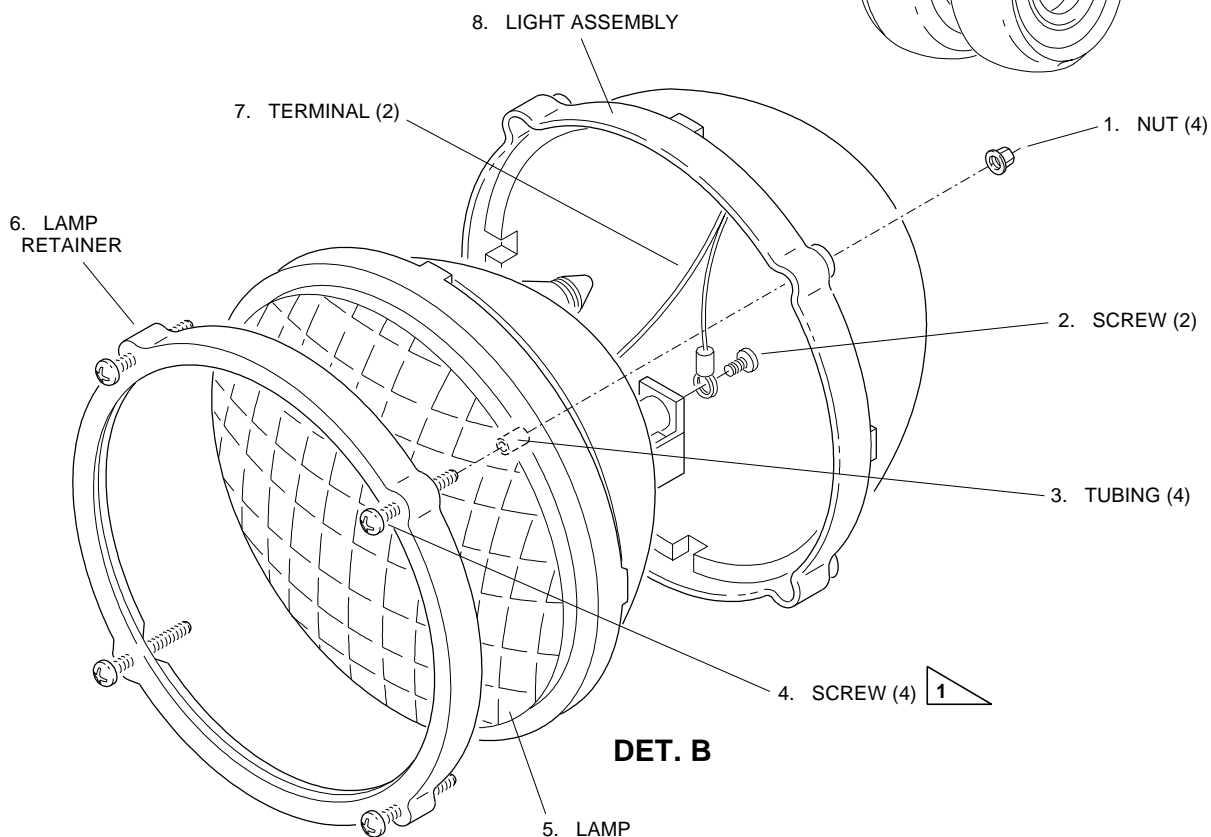
EFFECTIVITY: FOR AIRCRAFT PRE-MOD S.B. 145-33-0028 AND PRE-MOD S.B. 145-33-0034

Nose-Landing-Gear Taxi Light Lamp - Removal/Installation

Figure 401



1 TORQUE OF 1.12–1.35 Nm (10–12 lbf.in)

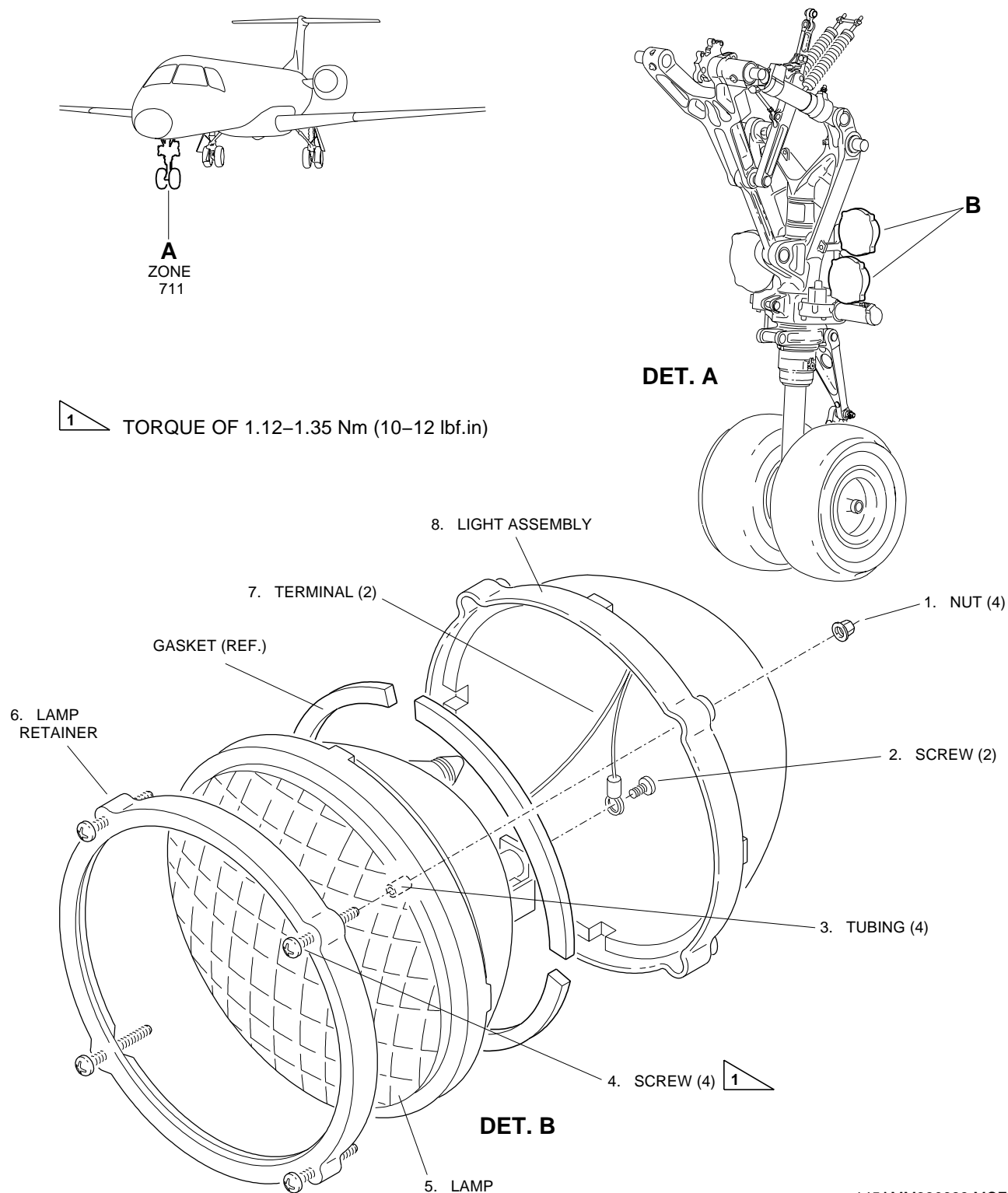


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EFFECTIVITY: FOR AIRCRAFT POST-MOD S.B. 145-33-0028 OR POST-MOD S.B. 145-33-0034

Nose-Landing-Gear Taxi Light Lamp - Removal/Installation

Figure 402



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TASK 33-42-02-400-801-A

EFFECTIVITY: ALL

3. NOSE-LANDING-GEAR TAXI LIGHT LAMP - INSTALLATION

A. General

(1) This procedure gives the instructions to install the nose-landing-gear taxi light lamp.

B. References

REFERENCE	DESIGNATION
AMM TASK 33-42-00-700-801-A/500	TAXI LIGHTS - OPERATIONAL TEST
TU-365	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
711		Nose landing gear

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench (For the torque range, refer to Figure 401 and Figure 402)	To torque the fasteners correctly	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Tubing	TU-365	AR

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	At the nose landing gear

I. Installation (Figure 401) (Figure 402)

SUBTASK 420-002-A

(1) **NOTE:** Before you install the two terminals (7), make sure that the wires are sufficiently loose to prevent wire rupture during the subsequent removal operation.

Install the two terminals (7) with the screws (2).

- (2) Install the lamp (5).
- (3) Put the four screws (4) through the holes in the lamp retainer (6) and move the tubing (3) over the screw (4) threads.
- (4) Install the lamp retainer (6).
- (5) Tighten the four screws (4) and nuts (1) to the specified value.

J. Follow-on

SUBTASK 842-002-A

- (1) Do the operational test of the lamp that you installed to the nose-landing-gear taxi light assembly ([AMM TASK 33-42-00-700-801-A/500](#)).

TASK 33-42-02-000-802-A

EFFECTIVITY: ALL

4. NOSE-LANDING-GEAR TAXI LIGHT ASSEMBLY - REMOVAL

A. General

(1) This procedure gives the instructions to remove the nose-landing-gear taxi light assembly.

B. References

REFERENCE	DESIGNATION
AFM-145/() CONFIGURATION DEVIATION LIST	-
AMM TASK 33-42-02-000-801-A/400	NOSE-LANDING-GEAR TAXI LIGHT LAMP - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
711		Nose landing gear

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially Available	Heat Gun	To supply hot air to the heat-shrinkable sleeve	

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MIL-I-23053	Heat-shrinkable Sleeve RNF-100 3/8-9	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	At the nose landing gear

I. Preparation

SUBTASK 841-003-A

- (1) Make sure the TAXI switch, on the overhead panel, is in the OFF position.
- (2) Remove the nose-landing-gear taxi light lamp ([AMM TASK 33-42-02-000-801-A/400](#)).

J. Removal (Figure 403) (Figure 404)

SUBTASK 020-004-A

- (1) With a plastic spatula, remove the sealant from around the bolts (2) and (3) and nuts (5) and (7).
- (2) Remove the bolt (3), washer (4), and nut (5).
- (3) Remove the bolt (2), washer (6), and nut (7).
- (4) Remove the conduit nut (10), washer (11), grommet (12), and electrical cable (9).
- (5) Remove the nose-landing-gear taxi light assembly (1).
- (6) To operate the aircraft with a taxi light removed (refer to AFM-145/() CONFIGURATION DEVIATION LIST), it is necessary to do these procedures at the terminal lugs:

CAUTION: AN INCORRECTLY INSULATED WIRE CAN CAUSE SHORT CIRCUITS AND DAMAGE TO THE AIRCRAFT.

- (a) Cover each terminal with two heat-shrinkable sleeves. Wait for the first sleeve to cool down before you install the other.
- (b) To prevent chafing, make a loop with the sleeved end of the wire and attach it back to itself.

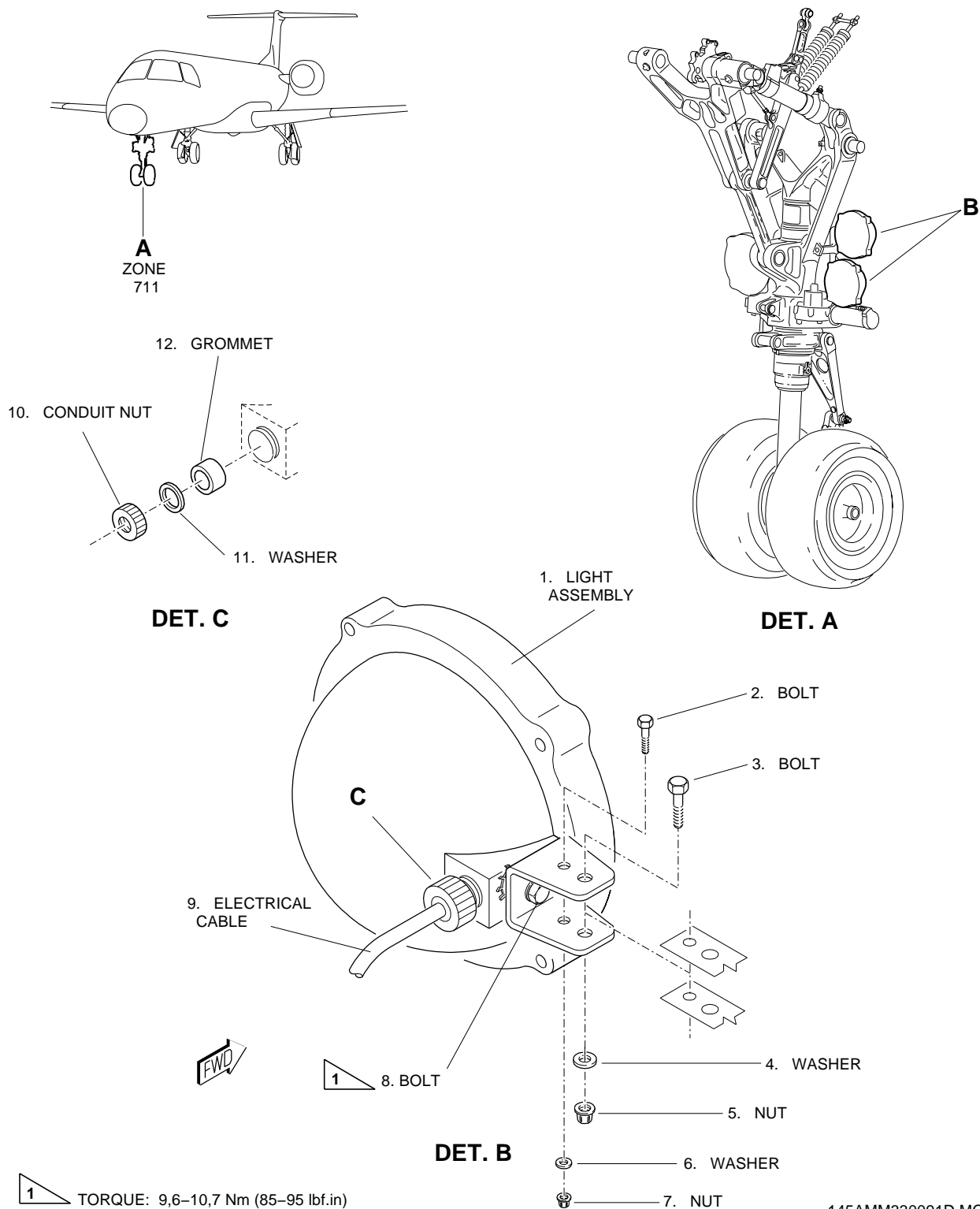
CAUTION: A LOOSE WIRE CAN BE DAMAGED AND THEN CAUSE SHORT CIRCUITS AND DAMAGE TO THE AIRCRAFT.

- (c) Attach the loose wire to the LH steering cylinder.

EFFECTIVITY: FOR AIRCRAFT PRE-MOD S.B. 145-33-0028 AND PRE-MOD S.B. 145-33-0034

Nose-Landing-Gear Taxi Light Assembly - Removal/Installation

Figure 403

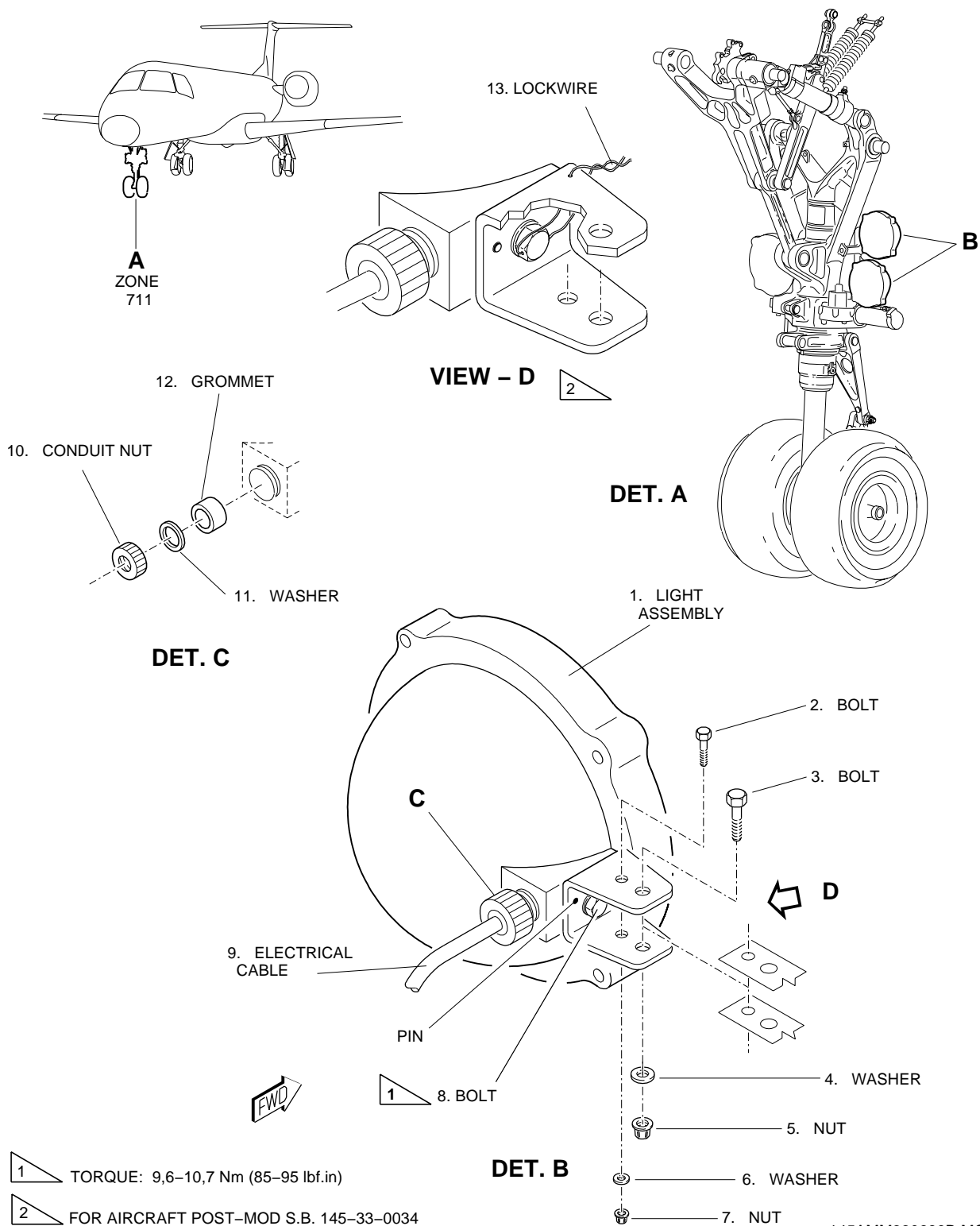


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EFFECTIVITY: FOR AIRCRAFT POST-MOD S.B. 145-33-0028 OR POST-MOD S.B. 145-33-0034

Nose-Landing-Gear Taxi Light Assembly - Removal/Installation

Figure 404



145AMM330689B.MCE

TASK 33-42-02-400-802-A

EFFECTIVITY: ALL

5. NOSE-LANDING-GEAR TAXI LIGHT ASSEMBLY - INSTALLATION

A. General

(1) This procedure gives the instructions to install the nose-landing-gear taxi light assembly.

B. References

REFERENCE	DESIGNATION
AMM TASK 33-42-00-700-801-A/500	TAXI LIGHTS - OPERATIONAL TEST
AMM TASK 33-42-02-400-801-A/400	NOSE-LANDING-GEAR TAXI LIGHT LAMP - INSTALLATION
S.B.145-33-0034	-
SRM 51-20-01/1	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
711		Nose landing gear

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MIL-PRF-81733 TYPE II CLASS 1, -1/2	Sealant	AR
MS20995C20	Lockwire	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	At the nose landing gear

I. Installation (Figure 403) (Figure 404)

SUBTASK 420-003-A

CAUTION: BE CAREFUL WHEN YOU CUT THE HEAT-SHRINKABLE SLEEVE NOT TO CAUSE DAMAGE TO THE WIRE.

(1) If necessary, remove the protection from the terminal lugs.

- (2) (PRE-MOD [S.B.145-33-0034](#)) Make sure that the bolt (8) is tight. If it is not, tighten the bolt (8) to the specified torque value.
- (3) (POST-MOD [S.B.145-33-0034](#)) Make sure that the bolt (8) is tight and that the lockwire (13) is in good condition. If necessary, do as follows:
 - (a) Cut the lockwire (13) from the bolt (8).
 - (b) Tighten the bolt (8) to the specified torque value.
 - (c) Use a lockwire (13) to lock the bolt (8).
- (4) Install the nose-landing-gear taxi light assembly (1).
- (5) Install the bolt (2), washer (6), and nut (7).
- (6) Install the bolt (3), washer (4), and nut (5).
- (7) Install the conduit nut (10), washer (11), grommet (12), and electrical cable (9).
- (8) Apply sealant MIL-PRF-81733 TYPE II CLASS 1, -1/2 (SRM 51-20-01/1) along the contour of the bolts (2) and (3) and nuts (5) and (7).

J. Follow-on

SUBTASK 842-003-A

- (1) Install the nose-landing-gear taxi light lamp ([AMM TASK 33-42-02-400-801-A/400](#)).
- (2) Do the operational test of the lamp installed in the nose-landing-gear taxi light assembly ([AMM TASK 33-42-00-700-801-A/500](#)).

