

LANDING LIGHT LAMP - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the landing light lamp and landing light assembly.
- B. The landing lights are installed on the nose landing gear (NLG) and on the RH and LH inboard wing leading edges.
- 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
33-41-02-000-801-A	LANDING LIGHT LAMP - REMOVAL	ALL
33-41-02-400-801-A	LANDING LIGHT LAMP - INSTALLATION	ALL
33-41-02-000-802-A	LANDING LIGHT ASSEMBLY - REMOVAL	ALL
33-41-02-400-802-A	LANDING LIGHT ASSEMBLY - INSTALLATION	ALL

TASK 33-41-02-000-801-A

EFFECTIVITY: ALL

2. LANDING LIGHT LAMP - REMOVAL

A. General

(1) This procedure gives the instructions to remove the landing light lamp.

B. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
711		Nose Landing Gear
611		Inboard wing leading edge - RH
511		Inboard wing leading edge - LH

C. Tools and Equipment

Not Applicable

D. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Plastic Spatula	To remove the seal	1

E. Consumable Materials

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

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	At the Nose Landing Gear, RH and LH in-board wing leading edges

H. Preparation

SUBTASK 841-002-A

- (1) Make sure that the LDG 1, NOSE, and LDG 2 switches, on the overhead panel, are in the OFF position.
- (2) Remove the lens of the landing lights from the LH and RH inboard wing leading edges.

I. Removal (Figure 401)

SUBTASK 020-002-A

- (1) Remove the lamp of the NLG landing light.
 - (a) Remove the bolt (5) and washer (6).
 - (b) Remove the clamp (4).
 - (c) Carefully pull out the lamp (3).
 - (d) Remove the two screws (1) from the terminals (2).
 - (e) Remove the lamp (3).
- (2) Remove the lamp of the landing light of the LH and RH inboard wing leading edges.
 - (a) Remove the bolt (13) and the washer (12).
 - (b) Remove the clamp (14).
 - (c) Carefully pull out the lamp (11) from the light assembly.
 - (d) Remove the two screws (9) from the terminals (10).
 - (e) Remove the lamp (11).
 - (f) If the seal (15) is damaged, replace the seal from the clamp (14) as follows:
 - 1 Use a plastic spatula to remove the damaged seal (15) from the clamp (14) and discard it.
 - 2 Use a clean cloth moist with cleaning solvent to remove old adhesive residues from the clamp (15).

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

 - 3 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.

 - 4
 - 5 Apply adhesive to the mating surface of the new seal (15).
 - 6 Put the seal (15) on the clamp (14). Use a clean cloth to remove excess adhesive. Let it air-dry for 4 hours.- (g) If the seal (8) is damaged, replace the seal from the light assembly as follows:
 - 1 Use a plastic spatula to remove the damaged seal (8) from the light assembly and discard it.

- 2 Use a clean cloth moist with cleaning solvent to remove old adhesive residues from the light assembly.

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

- 3 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.

4

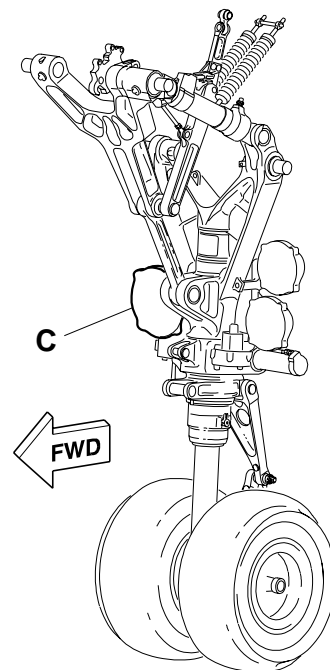
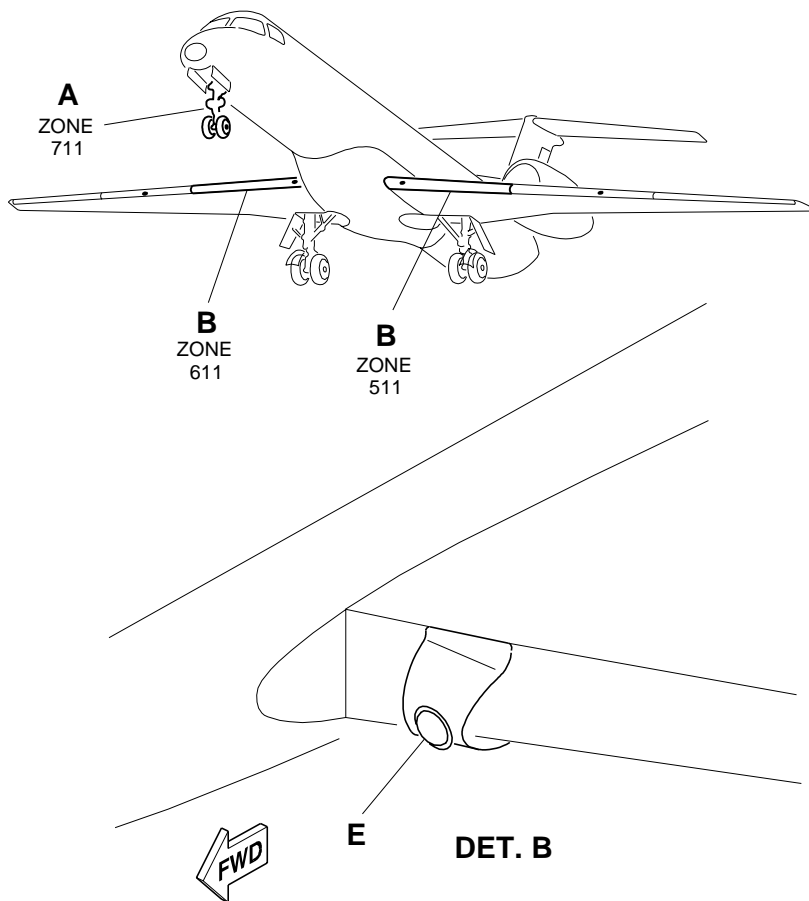
- 5 Apply adhesive to the mating surface of the new seal (8).

- 6 Put the seal (8) on the light assembly. Use a clean cloth to remove excess adhesive. Let it air-dry for 4 hours.

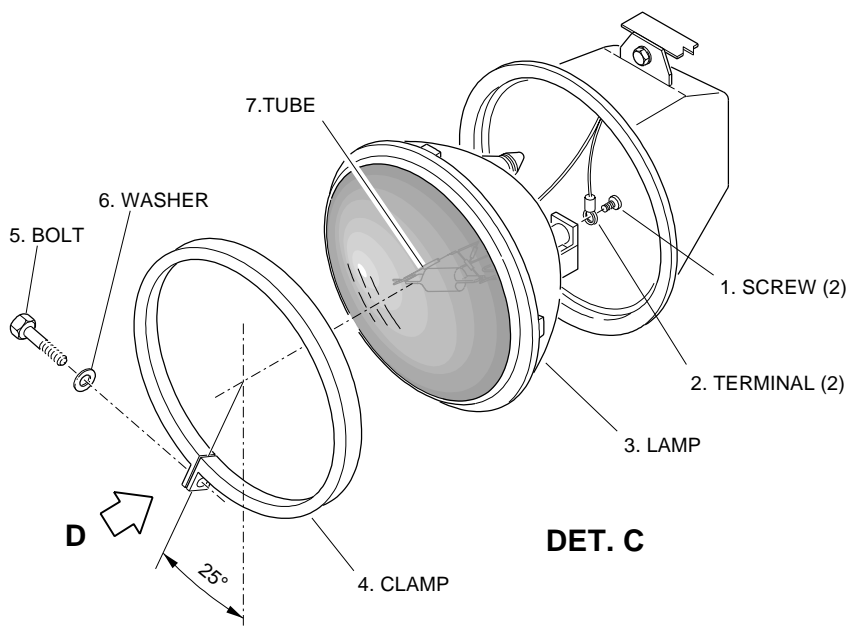
EFFECTIVITY: ALL

Landing Light Lamp - Removal/Installation

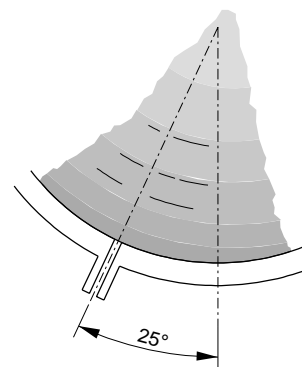
Figure 401 - Sheet 1



DET. A



DET. C



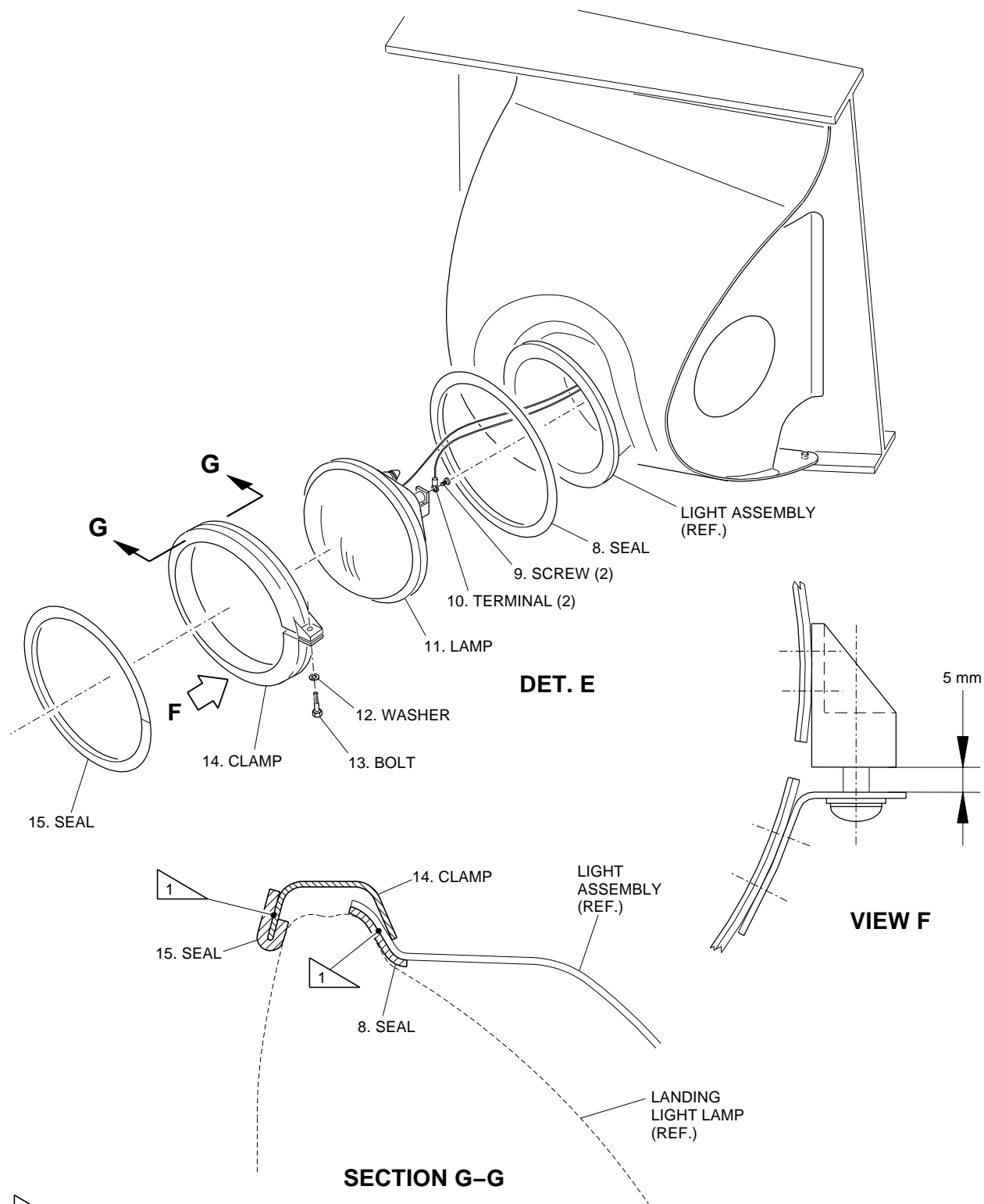
VIEW D

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EFFECTIVITY: ALL

Landing Light Lamp - Removal/Installation

Figure 401 - Sheet 2



1 ADHESIVE RTV-157

EM145AMM330991A.DGN

TASK 33-41-02-400-801-A
EFFECTIVITY: ALL

3. LANDING LIGHT LAMP - INSTALLATION

A. General

(1) This procedure gives the instructions to install the landing light lamp.

B. References

<i>REFERENCE</i>	<i>DESIGNATION</i>
AMM TASK 33-41-00-700-801-A/500	LANDING LIGHTS - OPERATIONAL TEST

C. Zones and Accesses

<i>ZONE</i>	<i>PANEL/DOOR</i>	<i>LOCATION</i>
711		Nose Landing Gear
611		Inboard wing leading edge - RH
511		Inboard wing leading edge - LH

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

<i>QTY</i>	<i>FUNCTION</i>	<i>PLACE</i>
1	Does the task	At the Nose Landing Gear, RH and LH in-board wing leading edges

I. Installation (Figure 401)

SUBTASK 420-002-A

(1) Install the lamp of the NLG landing light.

(a) Install the two terminals (2) with the screws (1).

(b) Install the lamp (3).

NOTE: The tube (7) must be horizontal when assembled.

CAUTION: AFTER INSTALLATION, THE CLAMP ATTACHMENT POINT MUST FORM AN ANGLE OF APPROXIMATELY 25° TO THE 6 O'CLOCK POSITION, CLOCKWISE, AS SHOWN IN DET "C" OF FIGURE 401. THIS ACTION PREVENTS INTERFERENCE BETWEEN THE CLAMP ATTACHMENT POINT AND THE LANDING GEAR DOOR.

- (c) Install the clamp (4) with the bolt (5) and washer (6).
- (2) Install the lamp of the landing light of the LH and RH inboard wing leading edges.
 - (a) Install the two terminals (10) with the screws (9).
 - (b) Install the lamp (11).

CAUTION: MAKE SURE THAT, WHEN YOU INSTALL THE CLAMP, A GAP OF 5mm STAYS BETWEEN THE TWO ENDS OF THE CLAMP. THIS IS TO PREVENT DAMAGE TO THE LAMP.

- (c) Install the clamp (14) with the bolt (13) and washer (12). Refer to VIEW. F and SECTION G-G.

J. Follow-on

SUBTASK 842-002-A

- (1) Do the operational test of the lamp installed ([AMM TASK 33-41-00-700-801-A/500](#)).
- (2) Install the lens of the landing lights of the LH and RH inboard wing leading edges.

TASK 33-41-02-000-802-A
EFFECTIVITY: ALL

4. LANDING LIGHT ASSEMBLY - REMOVAL

A. General

(1) This procedure gives the instructions to remove the Landing Light Assembly.

B. References

REFERENCE	DESIGNATION
AMM TASK 30-11-04-000-801-A/400	PICCOLO PRESSURE-DROP SWITCH - REMOVAL
AMM TASK 33-41-02-000-801-A/400	LANDING LIGHT LAMP - REMOVAL
AMM TASK 57-41-00-000-801-A/400	LEADING EDGE I - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
711		Nose Landing Gear
611		Wing inboard leading edge - RH
511		Wing inboard leading edge - LH

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	At the Nose Landing Gear, RH and LH wing inboard leading edges

I. Preparation

SUBTASK 841-003-A

- (1) Make sure that the LDG 1, NOSE, and LDG 2 switches, on the overhead panel, are in the OFF position.
- (2) Remove the leading edge ([AMM TASK 57-41-00-000-801-A/400](#)).
- (3) Remove the landing light lamp ([AMM TASK 33-41-02-000-801-A/400](#)).

- (4) Remove the piccolo pressure-drop switch ([AMM TASK 30-11-04-000-801-A/400](#)), if applicable.
- (5) Remove the tubes of the anti-icing system.

J. Removal ([Figure 402](#))

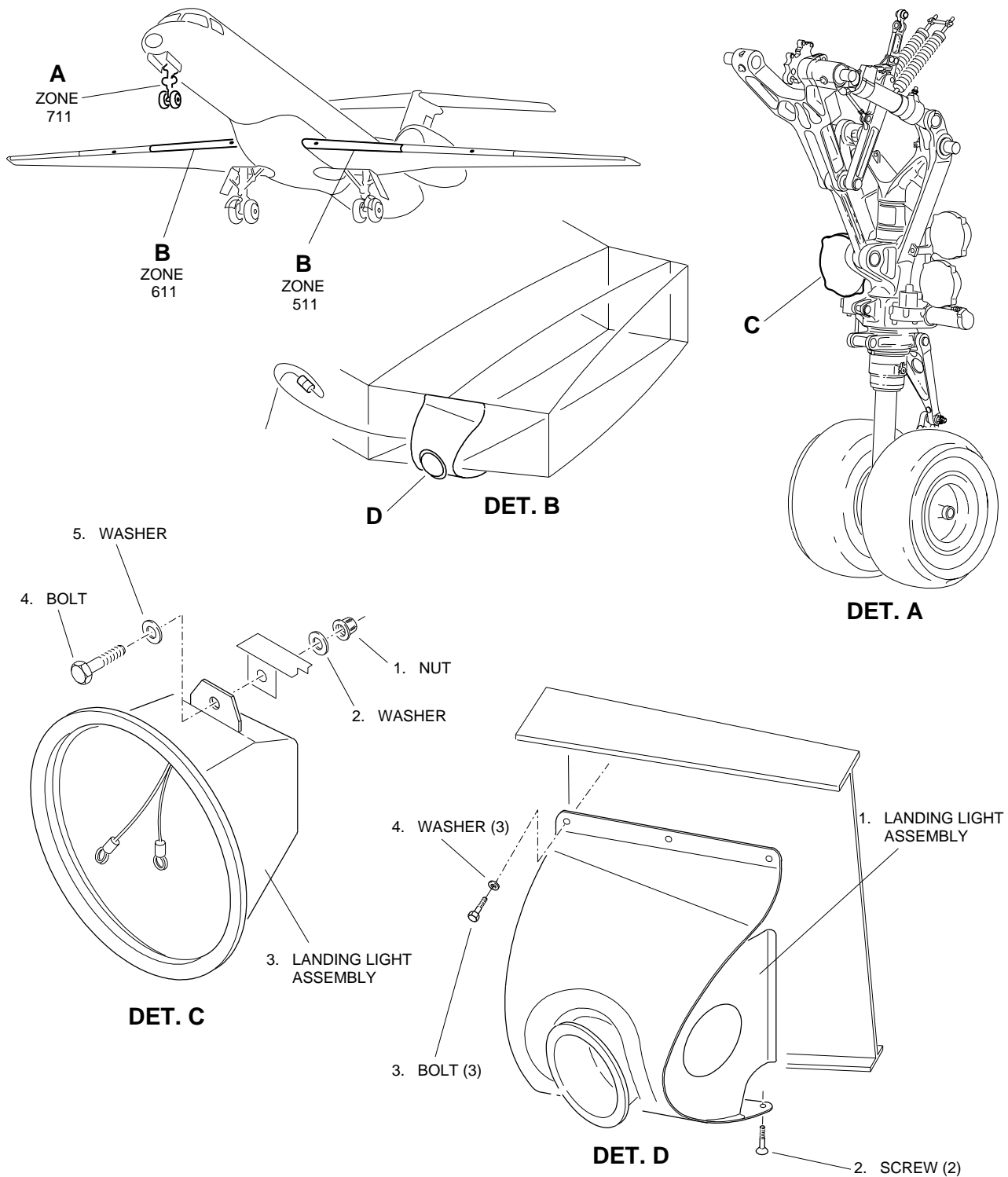
SUBTASK 020-003-A

- (1) Remove the landing light assembly of the NLG, as follows:
 - (a) Remove the electrical cable.
 - (b) Remove the nut (1), washer (2), bolt (4), and washer (5).
 - (c) Remove the landing light assembly (3).
- (2) Remove the landing light assembly of the LH and RH wing inboard leading edges, as follows:
 - (a) Remove the two screws (2).
 - (b) Remove the three bolts (3) and washers (4).
 - (c) Remove the landing light assembly (1).

EFFECTIVITY: ALL

Landing Light Assembly - Removal/Installation

Figure 402



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TASK 33-41-02-400-802-A

EFFECTIVITY: ALL

5. LANDING LIGHT ASSEMBLY - INSTALLATION

A. General

(1) This procedure gives the instructions to install the Landing Light Assembly.

B. References

REFERENCE	DESIGNATION
AMM TASK 30-11-04-400-801-A/400	PICCOLO PRESSURE-DROP SWITCH - INSTALLATION
AMM TASK 33-41-00-700-801-A/500	LANDING LIGHTS - OPERATIONAL TEST
AMM TASK 33-41-02-400-801-A/400	LANDING LIGHT LAMP - INSTALLATION
AMM TASK 57-41-00-400-801-A/400	LEADING EDGE I - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
711		Nose Landing Gear
611		Wing inboard leading edge - RH
511		Wing inboard leading edge - LH

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	At the Nose Landing Gear, LH and RH wing inboard leading edges

I. Installation (Figure 402)

SUBTASK 420-003-A

(1) Install the landing light assembly of the NLG, as follows:

(a) Install the landing light assembly (3).

(b) Install the bolt (4) with washer (5), washer (2), and nut (1).

- (c) Install the electrical cable.
- (2) Install the landing light assembly of the LH and RH wing inboard leading edges, as follows:
 - (a) Install the landing light assembly (1).
 - (b) Install the three bolts (3) with the washers (4).
 - (c) Install the two screws (2).

J. Follow-on

SUBTASK 842-003-A

- (1) Install the tubes of the anti-icing system.
- (2) Install the piccolo pressure-drop switch ([AMM TASK 30-11-04-400-801-A/400](#)), if applicable.
- (3) Install the landing light lamp ([AMM TASK 33-41-02-400-801-A/400](#)).
- (4) Install the leading edge ([AMM TASK 57-41-00-400-801-A/400](#)).
- (5) Do the operational test of the lamp installed ([AMM TASK 33-41-00-700-801-A/500](#)).

