



## AIRCRAFT MAINTENANCE MANUAL

### NOSE-LANDING-GEAR LIGHTS PROTECTION - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

#### 1. General

- A. This section gives the procedures to remove and install the lights protection of the nose landing gear.
- 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 |
|--------------------|---|-------------|
| 32-20-11-000-801-A | NOSE-LANDING-GEAR LIGHTS PROTEC- ALL<br>TION - REMOVAL      |             |
| 32-20-11-400-801-A | NOSE-LANDING-GEAR LIGHTS PROTEC- ALL<br>TION - INSTALLATION |             |

**TASK 32-20-11-000-801-A**
**EFFECTIVITY: ALL**
**2. NOSE-LANDING-GEAR LIGHTS PROTECTION - REMOVAL**
**A. General**

- (1) This task gives the procedure to remove the lights protection of the nose landing gear.

**B. References**

| <i>REFERENCE</i>                | <i>DESIGNATION</i>  |
|---------------------------------|---|
| AMM TASK 20-00-00-910-801-A/200 | AIRCRAFT SAFE PROCEDURES FOR MAINTENANCE SERVICES - MAINTENANCE PRACTICES |
| 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     |

**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**

| <i>QTY</i> | <i>FUNCTION</i> | <i>PLACE</i>      |
|------------|-----------------|-------------------|
| 1          | Does the task   | Nose landing gear |

**I. Preparation**
**SUBTASK 860-002-A**

**WARNING: MAKE SURE THAT THE AIRCRAFT IS IN A SAFE CONDITION BEFORE YOU DO THE MAINTENANCE PROCEDURES. THIS IS TO PREVENT INJURY TO PERSONS AND/OR DAMAGE TO THE EQUIPMENT.**

- (1) Do the procedure to make the aircraft safe for maintenance ( [AMM TASK 20-00-00-910-801-A/200](#)).
- (2) Make sure that the safety pin of the NLG doors solenoid valve is installed ([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](#)).

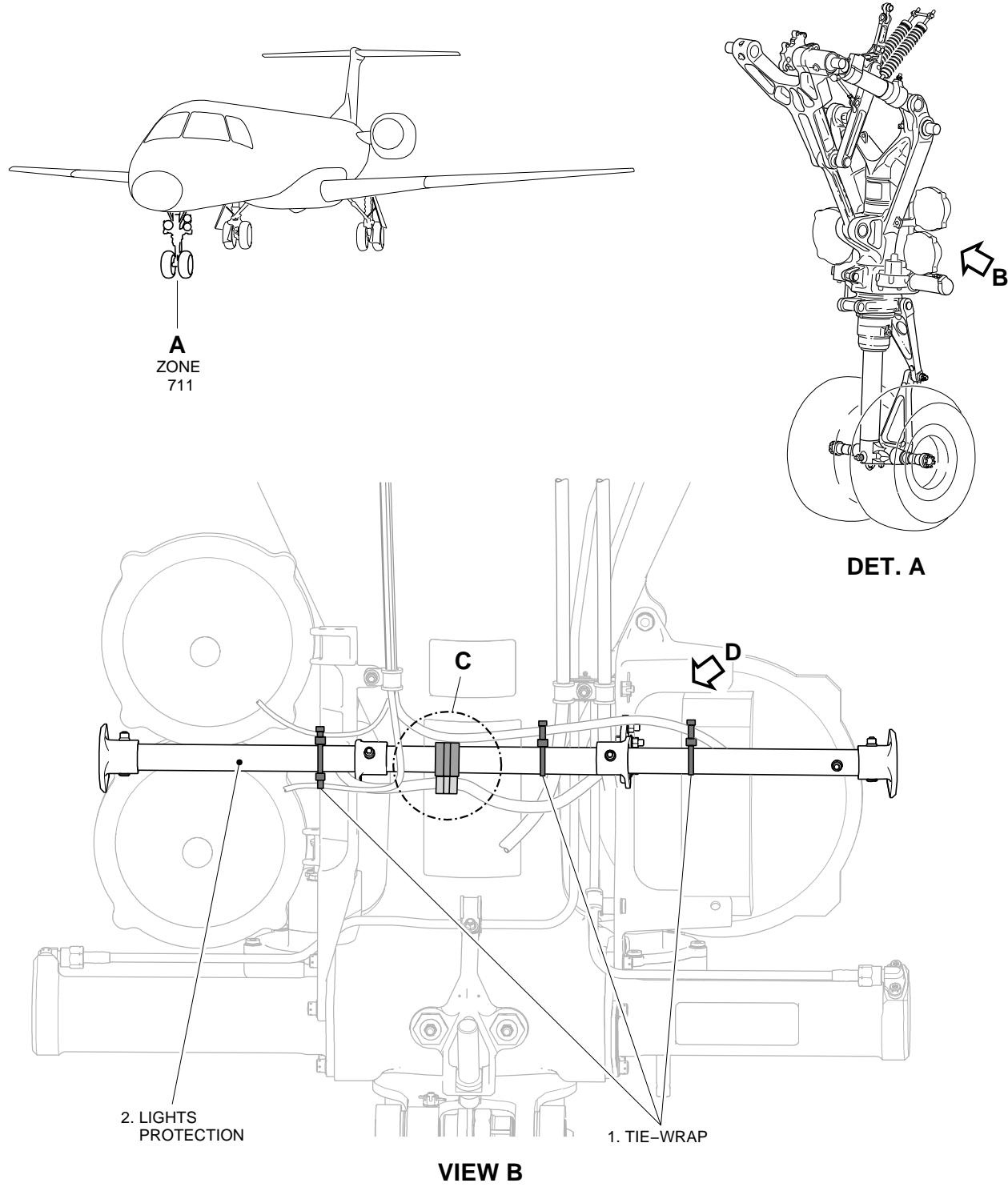


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J. Nose-Landing-Gear Lights Protection - Removal ([Figure 401](#))

SUBTASK 020-002-A ([Figure 401, Sheet 1](#)) ([Figure 401, Sheet 2](#))

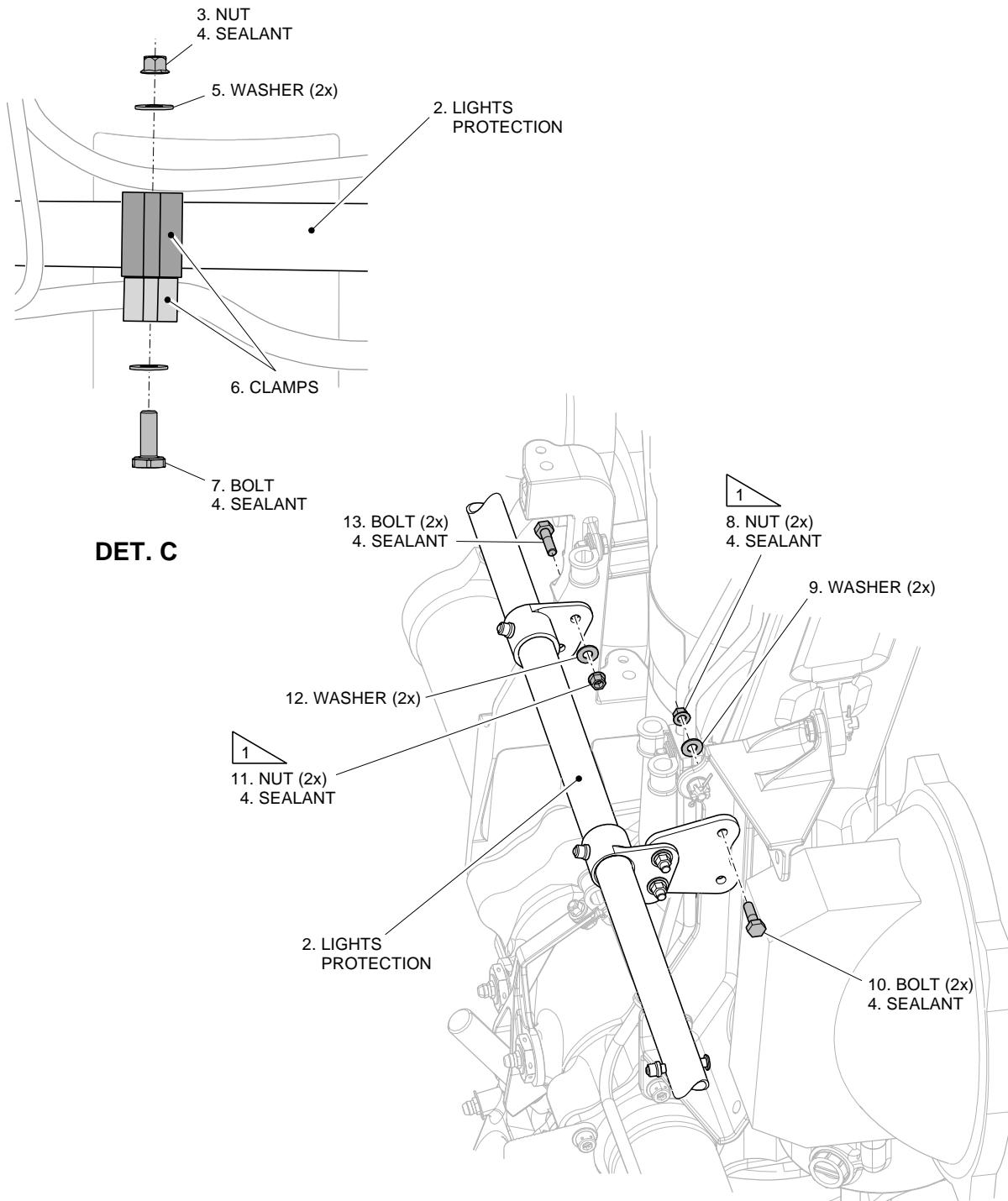
- (1) Remove the sealants (4) of the nuts (8) and (11), bolts (10) and (13) that attach the lights protection (2) (SRM 51-20-01). Refer to [Figure 401, Sheet 2](#).
- (2) Remove the sealants (4) of the nut (3) and bolt (7) that attach the clamps (6) (SRM 51-20-01). Refer to [Figure 401, Sheet 2](#).
- (3) Remove the nut (3), washers (5) and bolt (7) that attach the clamps (6) on the lights protection (2). Refer to [Figure 401, Sheet 2](#).
- (4) Remove the clamps (6) from the lights protection (2). Refer to [Figure 401, Sheet 2](#).
- (5) Cut, remove and discard the tie-wrap (1) that attach the electrical cable of the lights on the lights protection (2). Refer to [Figure 401, Sheet 1](#).
- (6) Remove the nuts (8) and (11), washers (9) and (12), bolts (10) and (13) to release the lights protection (2). Refer to [Figure 401, Sheet 2](#).
- (7) Remove the lights protection (2). Refer to [Figure 401, Sheet 2](#).

**EFFECTIVITY: ALL**
**Nose-Landing-Gear Lights Protection - Removal/Installation**
**Figure 401 - Sheet 1**

**EM145AMM320719B.DGN**

**EFFECTIVITY: ALL**

Nose-Landing-Gear Lights Protection - Removal/Installation

Figure 401 - Sheet 2



TORQUE: 3.95 – 4.52 N.m (35 – 40 lb.in)

EM145AMM320720B.DGN



EMB145 – EMB135

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TASK 32-20-11-400-801-A

EFFECTIVITY: ALL

3. NOSE-LANDING-GEAR LIGHTS PROTECTION - INSTALLATION

A. General

- (1) This task gives the procedure to install the lights protection of the nose landing gear.
- (2) The approved sealants for this procedure are:

NOTE: Do not mix the two sealants.

- PR1776M B2 654 SEMKIT
- PR 1826 B2 ALO + P

B. References

| REFERENCE                       | DESIGNATION   |
|---------------------------------|---|
| AMM TASK 20-00-00-910-801-A/200 | AIRCRAFT SAFE PROCEDURES FOR MAINTENANCE SERVICES - MAINTENANCE PRACTICES |
| AMM TASK 32-20-11-000-801-A/400 | NOSE-LANDING-GEAR LIGHTS PROTECTION - REMOVAL                             |

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

| SPECIFICATION<br>(BRAND) | DESCRIPTION  | QTY |
|--------------------------|--|-----|
| AMS3277                  | Polythioether Sealant PR 1826 B2 ALO + P, Rapid Curing, CLASS B2, TYPE I | AR  |
| AMS3281                  | Polisulfide Sealant PR1776M B2 654 SEMKIT, Class B2 Low-Density          | AR  |

G. Expandable Parts

Not Applicable

H. Persons Recommended

| QTY | FUNCTION      | PLACE             |
|-----|---------------|-------------------|
| 1   | Does the task | Nose landing gear |



## I. Preparation

SUBTASK 860-003-A

**WARNING: MAKE SURE THAT THE AIRCRAFT IS IN A SAFE CONDITION BEFORE YOU DO THE MAINTENANCE PROCEDURES. THIS IS TO PREVENT INJURY TO PERSONS AND/OR DAMAGE TO THE EQUIPMENT.**

- (1) Do the procedure to make the aircraft safe for maintenance ([AMM TASK 20-00-00-910-801-A/200](#)).
- (2) Make sure that the aircraft is in the same configuration as it was at the end of the removal task ([AMM TASK 32-20-11-000-801-A/400](#)).

J. Nose-Landing-Gear Lights Protection - Installation ([Figure 401](#))SUBTASK 420-002-A ([Figure 401, Sheet 1](#)) ([Figure 401, Sheet 2](#))

- (1) Put the lights protection (2) in its installation position. Refer to [Figure 401, Sheet 2](#).
- (2) Install the bolts (10) and (13), washers (9) and (12), nuts (8) and (11). Refer to [Figure 401, Sheet 2](#).
- (3) Use the torque wrench to torque the nuts (8) and (11) to 3.95 - 4.52 N.m (35 - 40 lb.in). Refer to [Figure 401, Sheet 2](#).
- (4) Install the tie-wraps (1) that attach the electrical cable of the lights on the lights protection (2). Refer to [Figure 401, Sheet 1](#).
- (5) Install the clamps (6) on the lights protection (2). Refer to [Figure 401, Sheet 2](#).
- (6) Install the bolt (7), washers (5), and nut (3) that attach the clamps (6) on the lights protection (2). Refer to [Figure 401, Sheet 2](#).
- (7) Apply the approved sealant (4) to the nut (3) and head of the bolt (7) that attach the clamps (6) on the lights protection (2) (SRM 51-20-01). Refer to [Figure 401, Sheet 2](#).
- (8) Apply the approved sealant (4) to the nuts (8) and (11), head of the bolts (10) and (13) that attach the lights protection (2) (SRM 51-20-01). Refer to [Figure 401, Sheet 2](#).

## K. Follow-on

SUBTASK 940-002-A

- (1) Remove from the work area all tools, equipment, and materials that you used.

