



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

MAIN/STANDBY REAR NAVIGATION LIGHTS - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the main/standby rear navigation lights.
- 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
33-43-05-000-801-A	MAIN/STANDBY REAR NAVIGATION LIGHT LAMPS - REMOVAL	ALL
33-43-05-400-801-A	MAIN/STANDBY REAR NAVIGATION LIGHT LAMPS - INSTALLATION	ALL
33-43-05-000-802-A	MAIN/STANDBY REAR NAVIGATION LIGHT ASSEMBLIES - REMOVAL	ALL
33-43-05-400-802-A	MAIN/STANDBY REAR NAVIGATION LIGHT ASSEMBLIES - INSTALLATION	ALL



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 33-43-05-000-801-A

EFFECTIVITY: ALL

2. MAIN/STANDBY REAR NAVIGATION LIGHT LAMPS - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the main/standby rear navigation light lamps.

B. References

REFERENCE	DESIGNATION
AMM TASK 55-36-01-000-801-A/400	TAIL-BOOM LIGHT LENS - REMOVAL
AMM TASK 55-36-03-200-801-A/600	RUBBER VIBRATION ISOLATION MOUNTS - VISUAL INSPECTION

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	Tail boom

I. Preparation

SUBTASK 841-002-A

- (1) Make sure that the NAV switch, on the overhead panel, is set to the OFF position.
- (2) Put a DO-NOT-OPERATE tag on the NAV switch.
- (3) Remove the tail boom lens ([AMM TASK 55-36-01-000-801-A/400](#)).

J. Removal

SUBTASK 020-002-A

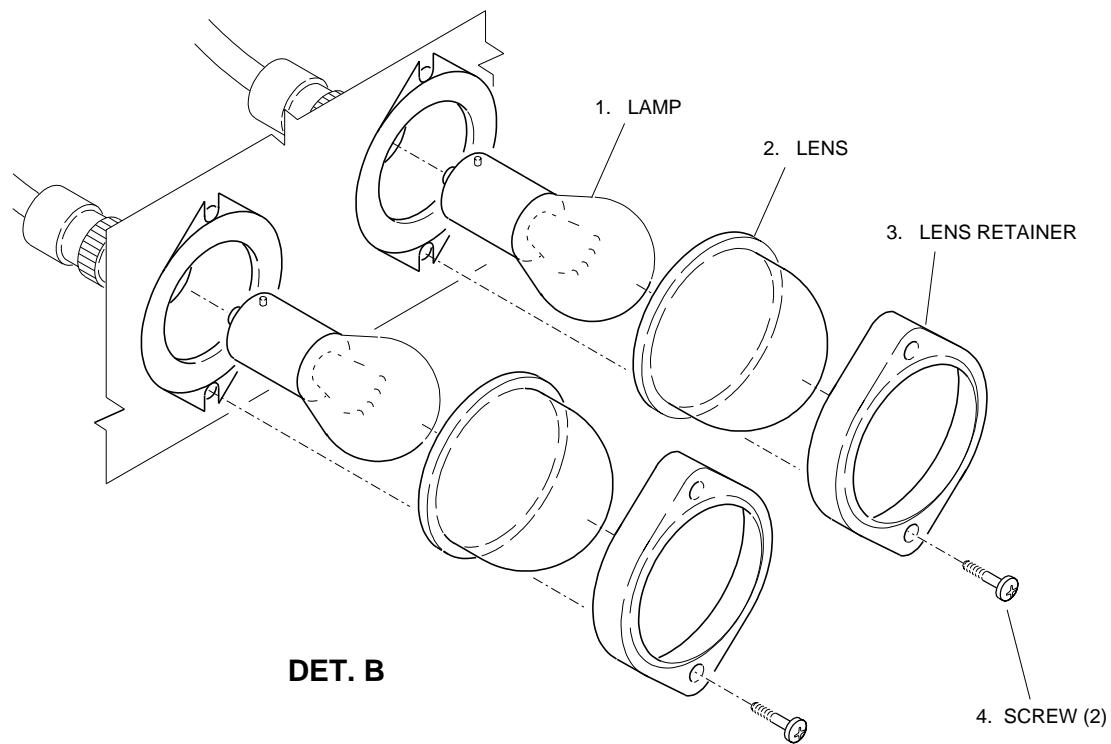
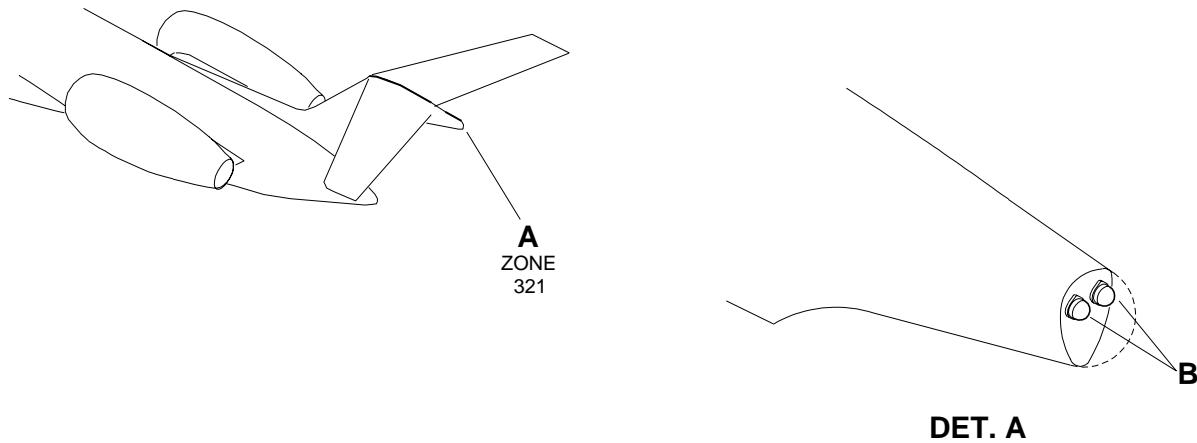
- (1) For aircraft without standby tail navigation lights, remove the main rear navigation light lamps as follows ([Figure 401](#)):
 - (a) Remove the two screws (4).

- (b) Remove the lens retainer (3).
 - (c) Remove the lens (2).
 - (d) Remove the lamp (1).
 - (e) For aircraft with rubber vibration-isolation mounts installed, do a visual inspection on these components ([AMM TASK 55-36-03-200-801-A/600](#)).
- (2) For aircraft with standby tail navigation lights, remove the main/standby rear navigation light lamps as follows ([Figure 402](#)):
- (a) Remove the two screws (3).
 - (b) Remove the baffle (2).
- CAUTION:** DO NOT TOUCH THE LAMP DIRECTLY WITH FINGER TIP. THIS WILL DAMAGE THE LAMP. REMOVE GREASE OR FINGERPRINTS WITH A CLEANING CLOTH SOAKED IN THE CORRECT DEGREASER.
- (c) Carefully push the lamp (1) and turn it counterclockwise to unlock it.
 - (d) Remove the lamp (1).

EFFECTIVITY: FOR AIRCRAFT WITHOUT STANDBY TAIL NAVIGATION LIGHTS

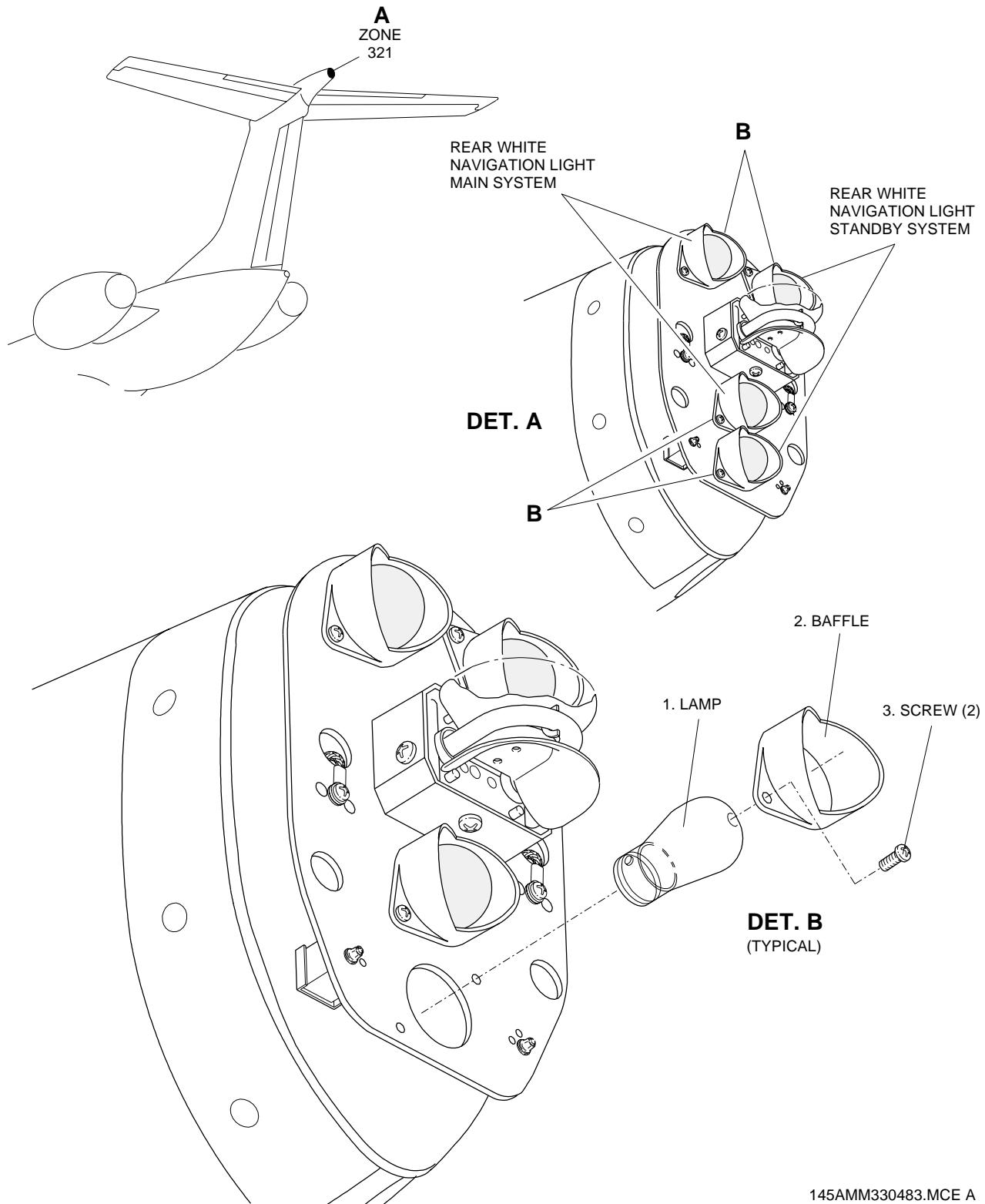
Main Rear Navigation Light Lamps - Removal/Installation

Figure 401



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EFFECTIVITY: FOR AIRCRAFT WITH STANDBY TAIL NAVIGATION LIGHTS
Main/Standy Rear Navigation Light Lamps - Removal/Installation
Figure 402



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EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 33-43-05-400-801-A

EFFECTIVITY: ALL

3. MAIN/STANDBY REAR NAVIGATION LIGHT LAMPS - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the main/standby rear navigation light lamps.

B. References

REFERENCE	DESIGNATION
AMM TASK 33-43-00-700-801-A/500	NAVIGATION LIGHTS - OPERATIONAL TEST
AMM TASK 55-36-01-400-801-A/400	TAIL-BOOM LIGHT LENS - INSTALLATION

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	Tail boom

I. Installation

SUBTASK 420-002-A

- (1) For aircraft without standby tail navigation lights, install main rear navigation light lamps as follows (Figure 401):
- Install the lamp (1).
 - Install the lens (2).
 - Install the lens retainer (3).
 - Tighten the two washers (4).
- (2) For aircraft with standby tail navigation lights, install main/standby rear navigation light lamps as follows (Figure 402):



AIRCRAFT
MAINTENANCE MANUAL

CAUTION: DO NOT TOUCH THE LAMP DIRECTLY WITH FINGER TIP. THIS WILL DAMAGE THE LAMP. REMOVE GREASE OR FINGERPRINTS WITH A CLEANING CLOTH SOAKED IN CORRECT DEGREASER.

- (a) Put the lamp in its installation position.
- (b) Carefully push the lamp (1) and turn it clockwise to lock it.
- (c) Install the baffle (2).
- (d) Tighten the two washers (3).

J. Follow-on

SUBTASK 842-002-A

- (1) Remove the DO-NOT-OPERATE tag from the NAV switch.
- (2) Do the operational test of the main/standby rear navigation lights installed ([AMM TASK 33-43-00-700-801-A/500](#)).
- (3) Install the tail boom lens ([AMM TASK 55-36-01-400-801-A/400](#)).



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 33-43-05-000-802-A

EFFECTIVITY: ALL

4. MAIN/STANDBY REAR NAVIGATION LIGHT ASSEMBLIES - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the main/standby rear navigation light assemblies.
- (2) The main/standby rear navigation light assemblies are installed in the tail boom.

B. References

REFERENCE	DESIGNATION
AMM TASK 55-36-01-000-801-A/400	TAIL-BOOM LIGHT LENS - 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

QTY	FUNCTION	PLACE
1	Does the task	Tail boom

I. Preparation

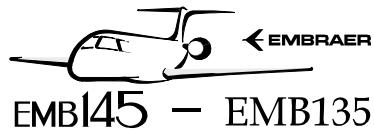
SUBTASK 841-003-A

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Make sure that the NAV switch, on the overhead panel, is set to the OFF position.
- (3) Put a DO-NOT-OPERATE tag on the NAV switch.
- (4) Remove the tail-boom light lens ([AMM TASK 55-36-01-000-801-A/400](#)).

J. Removal ([Figure 403](#)) ([Figure 404](#)) ([Figure 405](#))

SUBTASK 020-003-A

- (1) For aircraft without standby tail navigation lights, remove the main rear navigation light assemblies as follows ([Figure 403](#)):



EMB145 – EMB135

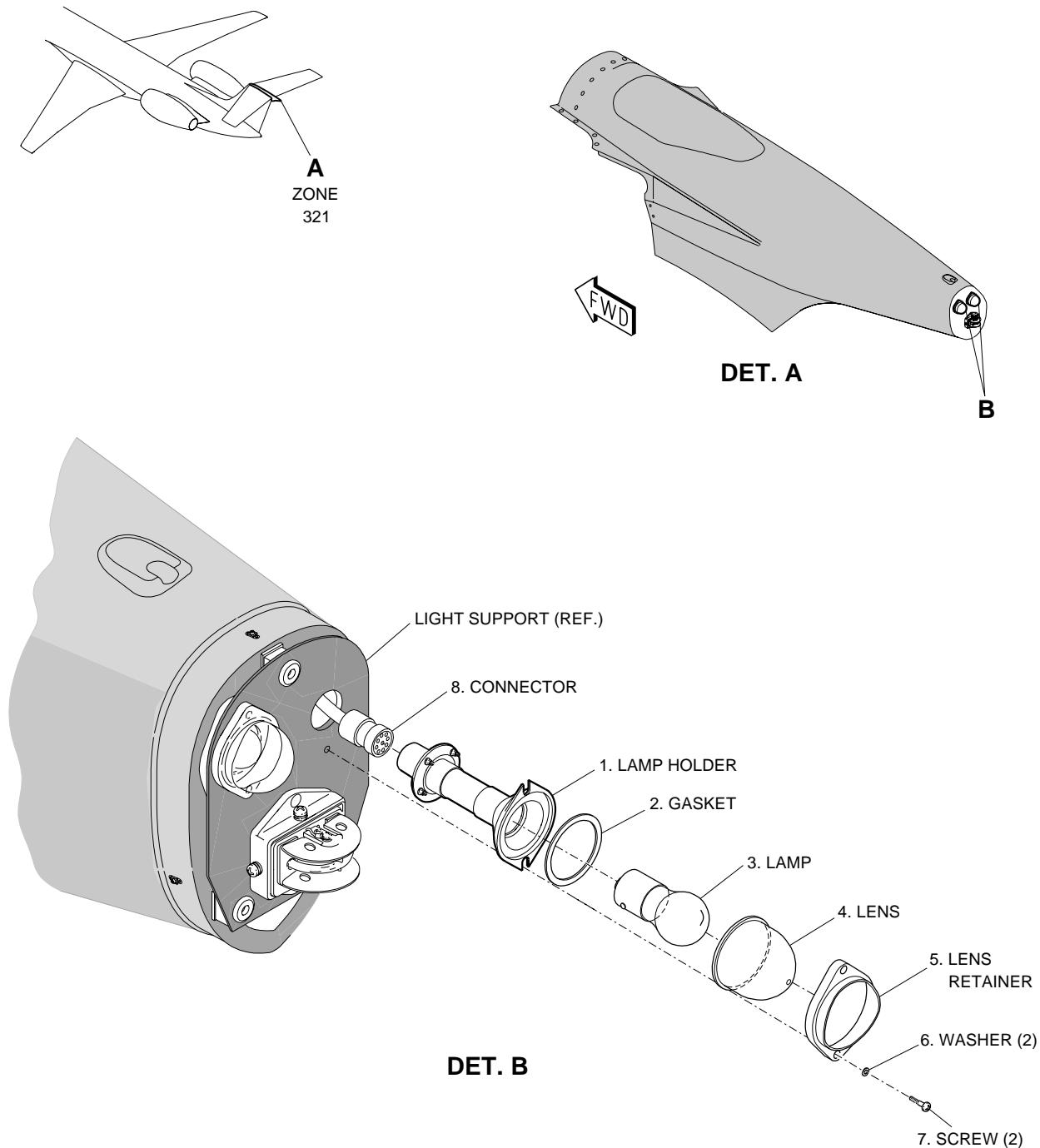
AIRCRAFT
MAINTENANCE MANUAL

- (a) Remove the screws (7) and washers (6) that attach both lens retainer (5) and lamp holder (1) to the light support.
 - (b) Remove the lens retainer (5) and the lens (4).
 - (c) Hold the lamp holder (1), then carefully push the lamp (3) and turn it counterclockwise to remove it.
 - (d) Remove the lamp (3).
 - (e) Pull out the lamp holder (1), remove the gasket (2) and disconnect the electrical connector (8).
 - (f) Remove the lamp holder (1).
 - (g) Install the protective cap on the disconnected electrical connector.
- (2) For aircraft with standby tail navigation lights, remove the main/standby rear navigation light assemblies as follows ([Figure 404](#)) ([Figure 405](#)):
 - (a) Loosen the nuts (3) and washers (2) that attach the light support (1) to the tail boom.
 - (b) Carefully pull out the light support (1) from the tail boom.
 - (c) Remove the screws (11) and the washers (10) to disconnect the electrical wire (9) from the lamp holder (7).
 - (d) Loosen the screws (6) and nuts (8) that attach both deflector (4) and lamp holder (7) to the light support (1).
 - (e) Remove the deflector (4).
 - (f) Hold the lamp holder (7), then carefully push the lamp (5) and turn it counterclockwise remove it.
 - (g) Remove the lamp (5) and the lamp holder (7).

EFFECTIVITY: FOR AIRCRAFT WITHOUT STANDBY TAIL NAVIGATION LIGHT ASSEMBLIES

Main Rear Navigation Light Assemblies - Removal/Installation

Figure 403

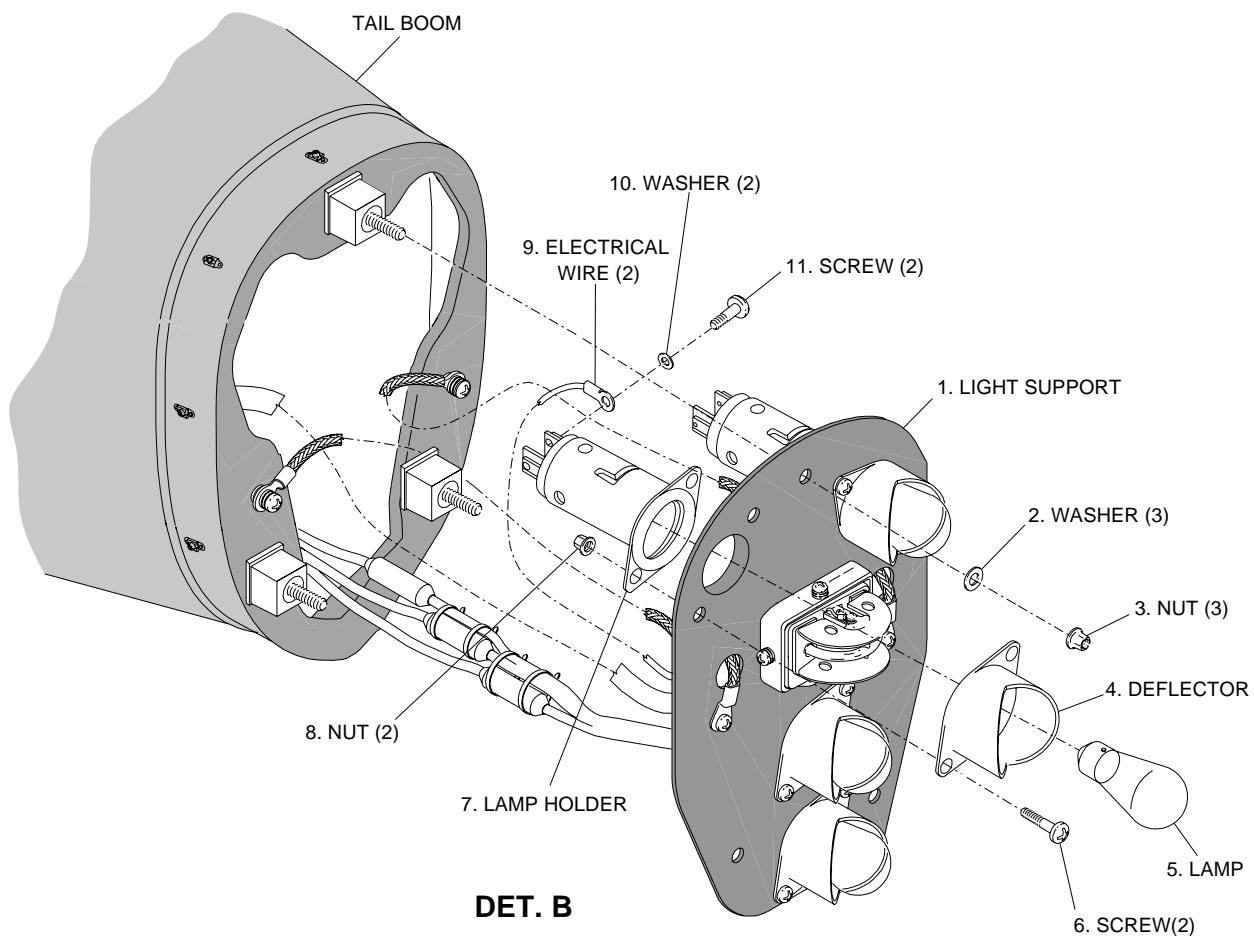
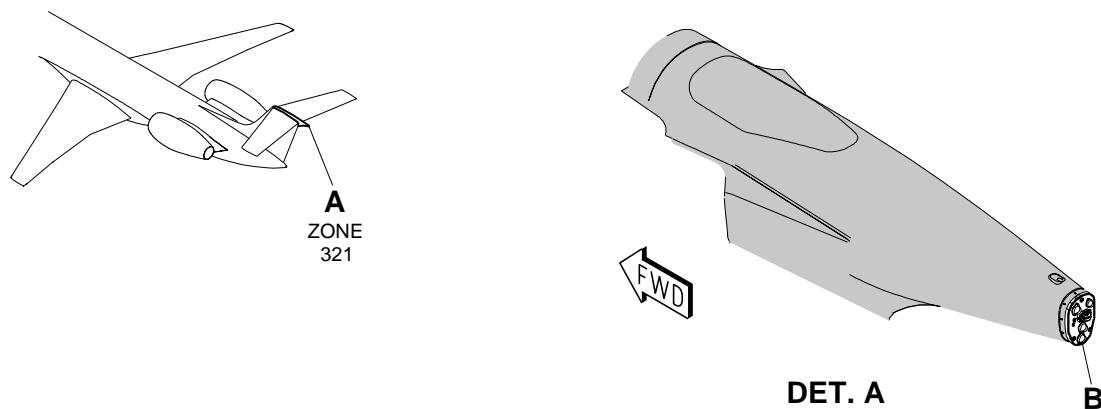


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EFFECTIVITY: FOR AIRCRAFT WITH STANDBY TAIL NAVIGATION LIGHT ASSEMBLIES AND/OR PRE-MOD SB145-55-0030

Main/Standby Rear Navigation Light Assemblies - Removal/Installation

Figure 404

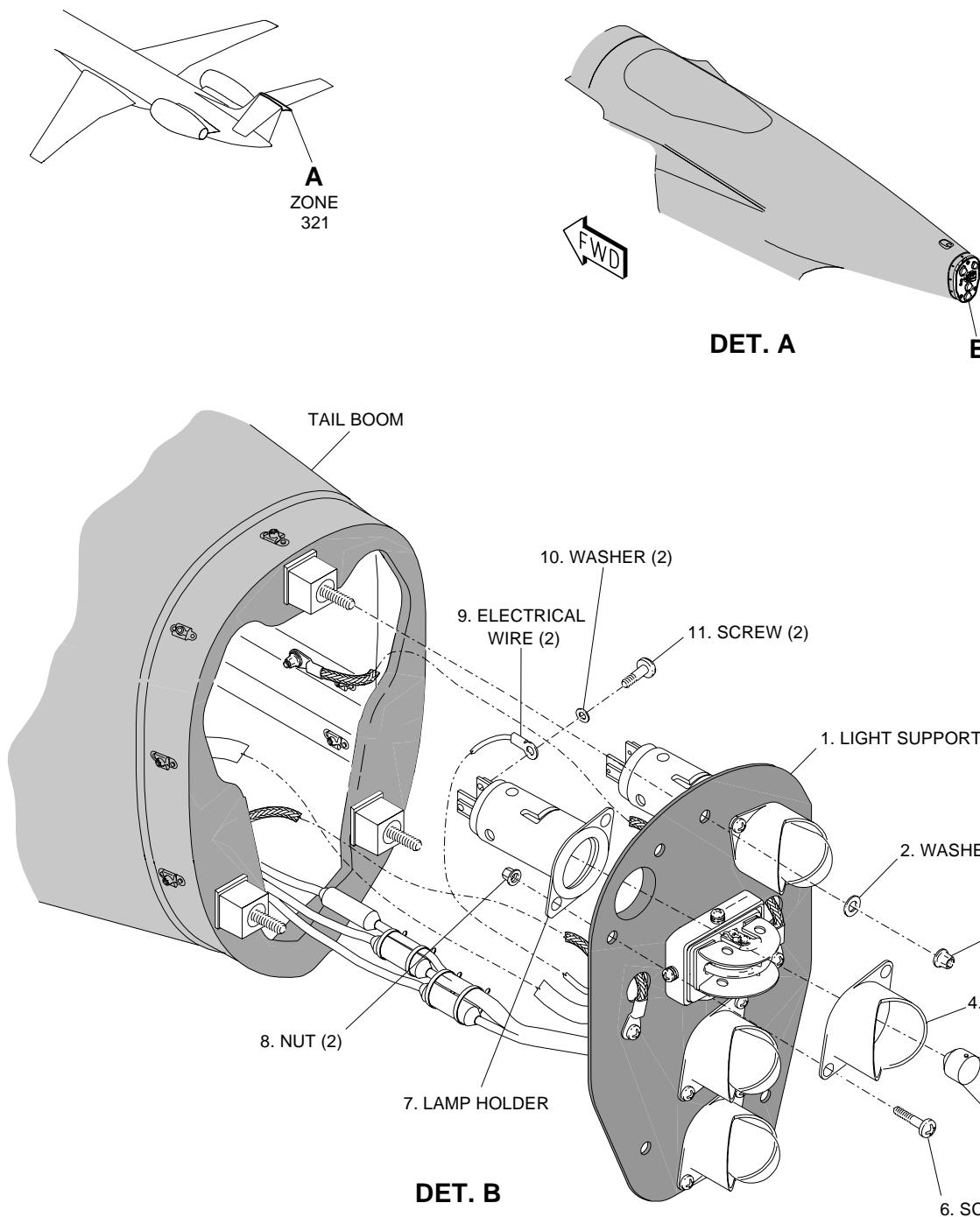


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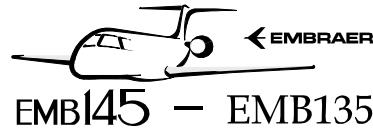
**EFFECTIVITY: FOR AIRCRAFT WITH STANDBY TAIL NAVIGATION LIGHT ASSEMBLIES AND/OR
POST-MOD SB145-55-0030**

Main/Standby Rear Navigation Light Assemblies - Removal/Installation

Figure 405



EM145AMM330964A.DGN



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 33-43-05-400-802-A

EFFECTIVITY: ALL

5. MAIN/STANDBY REAR NAVIGATION LIGHT ASSEMBLIES - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the main/standby rear navigation light assemblies.
- (2) The main/standby rear navigation light assemblies are installed in the tail boom.

B. References

REFERENCE	DESIGNATION
AMM TASK 33-43-00-700-801-A/500	NAVIGATION LIGHTS - OPERATIONAL TEST
AMM TASK 55-36-01-400-801-A/400	TAIL-BOOM LIGHT LENS - INSTALLATION

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	Tail boom

I. Installation (Figure 403) (Figure 404) (Figure 405)

SUBTASK 420-003-A

CAUTION: DO NOT TOUCH THE LAMP DIRECTLY WITH FINGER TIP. THIS WILL DAMAGE THE LAMP. REMOVE GREASE OR FINGERPRINTS WITH A CLEANING CLOTH SOAKED IN CORRECT DEGREASER.

- (1) For aircraft without standby tail navigation lights, install main rear navigation light assemblies as follows (Figure 403):
 - (a) Remove the protective cap from the electrical connector.
 - (b) Connect the electrical connector (8) to the lamp holder (1) and install the gasket (2).

- (c) Hold the lamp holder (1), and carefully push the lamp (3) and turn it clockwise to lock it.
- (d) Put the lamp holder (1), the lens (4) and the lens retainer (5) on their installation position in the light support.
- (e) Install the washers (6) and tighten the screws (7) that attach both lens retainer (5) and lamp holder (1) to the light support.
- (2) For aircraft with standby tail navigation lights, install main/standby rear navigation light assemblies as follows (Figure 404) (Figure 405):
 - (a) Hold the lamp holder (7) on its installation position and carefully push the lamp (5) and turn it clockwise to lock it.
 - (b) Put the the lamp holder (7) and the deflector (4) on their installation position in the light support (1).
 - (c) Install the screws (6) and nuts (8) that attach both lamp holder (7) and deflector (4) to the light support (1).
 - (d) Install the washers (10) and tighten the screws (11) that attach the electrical wires (9) to the lamp holder (7).
 - (e) Put the light support (1) on its installation position in the tail boom.
 - (f) Install the washers (2) and tighten the nuts (3) that attach the light support (1) to the tail boom.

J. Follow-on

SUBTASK 842-003-A

- (1) Remove the DO-NOT-OPERATE tag from the NAV switch.
- (2) Do the operational test of the main/standby rear navigation lights installed ([AMM TASK 33-43-00-700-801-A/500](#)).
- (3) Install the tail-boom light lens ([AMM TASK 55-36-01-400-801-A/400](#)).