

PASSENGER CABIN LIGHT - REMOVAL/INSTALLATION
EFFECTIVITY: ALL
1. General

- A. This section gives the procedures for the removal/installation of the Passenger-Cabin Light Assemblies. This section also gives the procedures to remove and install the Passenger-Cabin Lights.
- B. The passenger-cabin light assemblies are installed in the PSU channel/duct structure, zones 233, 234, 243, 244, 253, 254, 263, and 264.
- C. When you work on the component, obey the safety precautions given below.
 - Disconnect the electrical power.
 - Always use insulated tools when you work on or near electrical circuits.
- D. The procedures in this section are given in the sequence below. The tasks identified with (♦) are part of the Scheduled Maintenance Requirements Document (SMRD).

<i>TASK NUMBER</i>	<i>DESCRIPTION</i>	<i>EFFECTIVITY</i>
33-21-06-000-801-A	PASSENGER CABIN LIGHT ASSEMBLIES ALL - REMOVAL	
33-21-06-400-801-A	PASSENGER-CABIN LIGHT ASSEMBLIES ALL - INSTALLATION	
33-21-06-000-802-A	PASSENGER-CABIN FLUORESCENT LAMPS - REMOVAL	ALL
33-21-06-400-802-A	PASSENGER-CABIN FLUORESCENT LAMPS - INSTALLATION	ALL

TASK 33-21-06-000-801-A
EFFECTIVITY: ALL
2. PASSENGER CABIN LIGHT ASSEMBLIES - REMOVAL
A. General

- (1) This task gives the procedures for the removal of the passenger-cabin light assemblies.

B. References

<i>REFERENCE</i>	<i>DESIGNATION</i>
AMM TASK 33-21-06-000-802-A/400	PASSENGER-CABIN FLUORESCENT LAMPS - 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	Passenger cabin

I. Removal of the Passenger-Cabin Light Assemblies ([Figure 401](#))
SUBTASK 020-002-A

- (1) Disassemble the passenger-cabin light assemblies as follows:

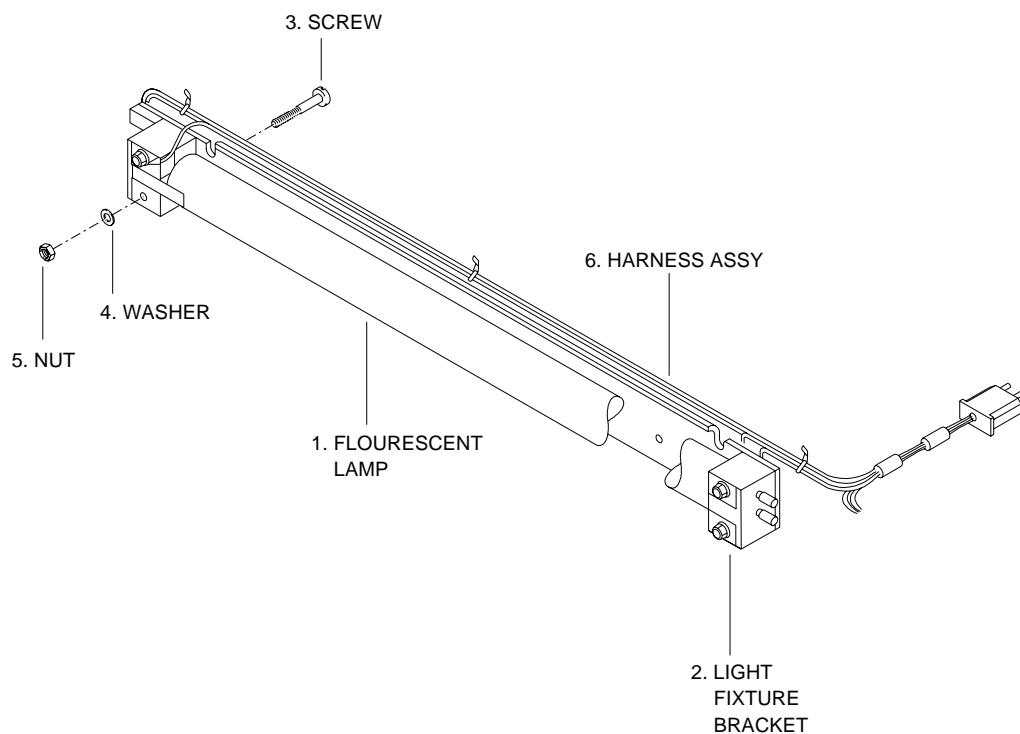
- (a) Remove the fluorescent lamp (1) from the light fixture bracket (2). Refer to [AMM TASK 33-21-06-000-802-A/400](#).

CAUTION: MAKE MATCH MARKS ON ALL THE ELECTRICAL WIRES OR CABLES BEFORE YOU DISCONNECT THEM. INCORRECT CONNECTION OF WIRES OR CABLES WILL CAUSE DAMAGE TO EQUIPMENT.

- (b) Remove the light fixture bracket (2) with the screws (3), washers (4), and nuts (5).
- (c) Remove the harness assembly (6) from the light fixture bracket (2).

EFFECTIVITY:: ALL

Passenger Cabin Lights - Removal/Installation
Figure 401



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TASK 33-21-06-400-801-A

EFFECTIVITY: ALL

3. PASSENGER-CABIN LIGHT ASSEMBLIES - INSTALLATION

A. General

(1) This task gives the procedures for the installation of the passenger-cabin light assemblies.

B. References

REFERENCE	DESIGNATION
AMM TASK 33-21-06-400-802-A/400	PASSENGER-CABIN FLUORESCENT LAMPS - INSTALLATION

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
1	Rubber gloves	Electrical insulation	AR

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Passenger cabin

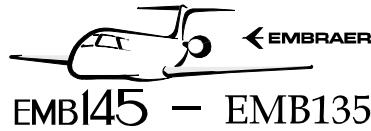
I. Installation of the Passenger-Cabin Light Assemblies (Figure 401)

SUBTASK 420-002-A

(1) Assemble the passenger-cabin light assemblies as follows:

CAUTION: REFER TO THE MATCH MARKS MADE DURING THE REMOVAL WHEN YOU CONNECT THE ELECTRICAL WIRES OR CABLES. INCORRECT CONNECTION OF WIRES OR CABLES WILL CAUSE DAMAGE TO EQUIPMENT.

- (a) Install the harness assembly (6) on the light fixture bracket (2).
- (b) Install the light fixture bracket (2) with the screws (3) and washers (4).
- (c) Install the light assembly on the PSU structure then install the fluorescent lamp (1) on the light fixture bracket (2). Refer to [AMM TASK 33-21-06-400-802-A/400](#).



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TASK 33-21-06-000-802-A

EFFECTIVITY: ALL

4. PASSENGER-CABIN FLUORESCENT LAMPS - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the Passenger-Cabin Fluorescent Lamps.
- (2) Use the manual deploy tool to remove the deflectors. There are two manual deploy tools on the aircraft. One is on the left sidewall, behind the last passenger seat. The other one is on the wall of the forward wardrobe.

B. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
233, 243, 253, 263		Passenger cabin, LH upper side
234, 244, 254, 264		Passenger cabin, RH upper side

C. Tools and Equipment

Not Applicable

D. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
	Manual Deploy Tool	To remove the LH/RH deflector assy	1

E. Consumable Materials

Not Applicable

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	In the passenger cabin

H. Preparation

SUBTASK 841-002-A

- (1) On the LH and RH DC DISTRIBUTION BOX circuit breaker panel, open the 1, 2, and 3 CABIN LT circuit breakers and attach a DO-NOT-CLOSE tag to them.

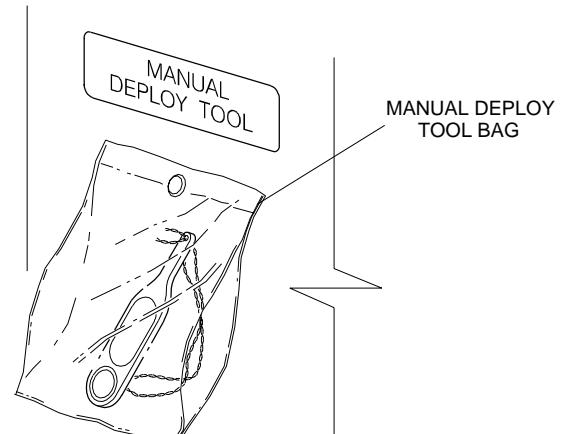
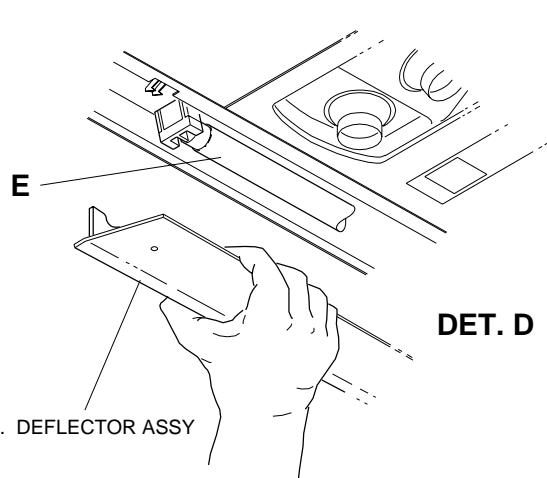
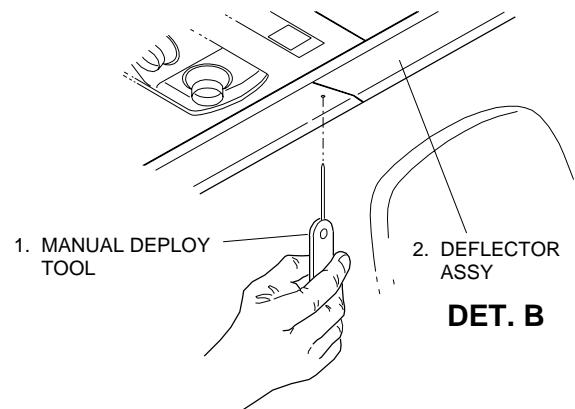
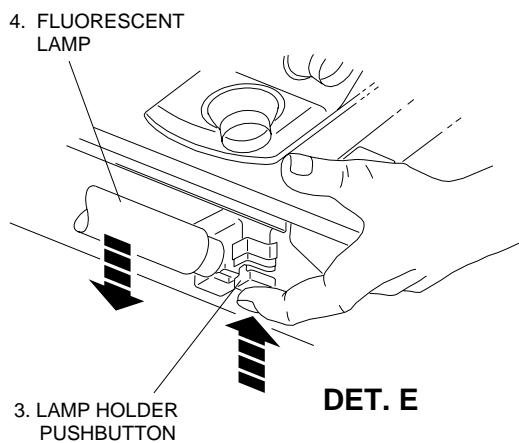
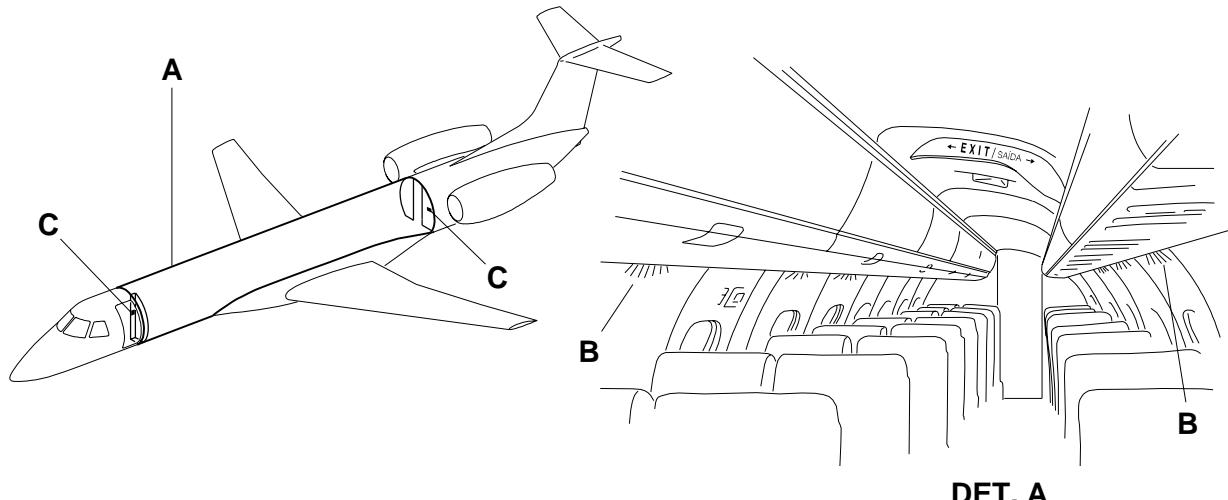
I. Removal (Figure 402) (Figure 403) (Figure 404) (Figure 405)

SUBTASK 020-003-A

- (1) Refer to figure 402 and remove the passenger-cabin-sidewall fluorescent lamps as follows:
 - (a) Put the manual deploy tool (1) in the hole of the deflector assembly (2).

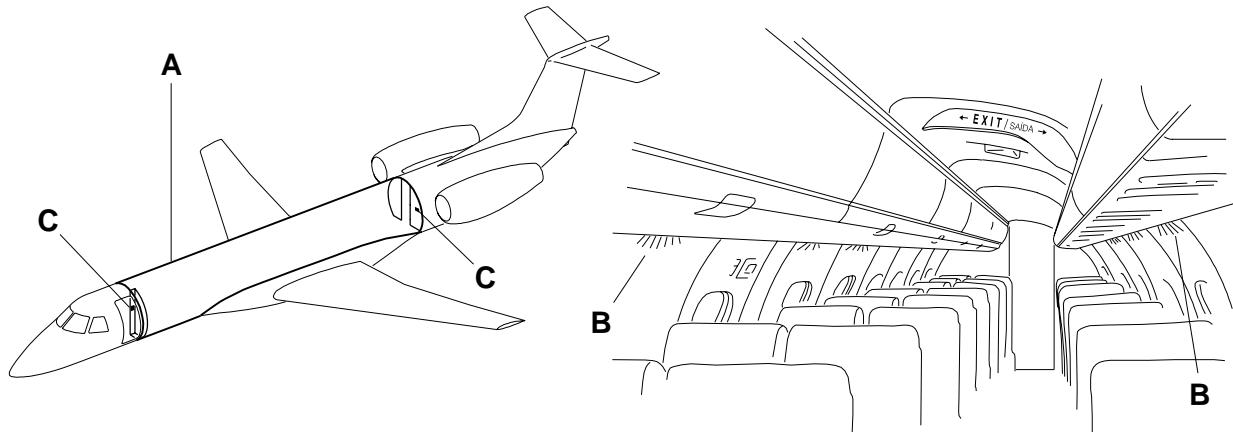
- (b) Pull the deflector assembly (2) to remove it.
 - (c) Push the lamp holder pushbutton (3) to release the fluorescent lamp (4).
 - (d) Remove the fluorescent lamp (4).
- (2) Refer to figure 403 and remove the passenger-cabin-sidewall fluorescent lamps as follows:
- (a) Put the manual deploy tool (1) in the hole of the deflector assembly (2).
 - (b) Pull the deflector assembly (2) to remove it.
 - (c) Put the manual deploy tool (1) in the hole of the lamp holder to release the fluorescent lamp (4).
 - (d) Remove the fluorescent lamp (4).
- (3) Refer to figure 404 and remove the passenger-cabin-ceiling fluorescent lamps as follows:
- (a) Hold and compress the upper flange of the lens (1) to release it from the light fixture and pull to remove the lens.
 - (b) Push the lamp holder pushbutton (2) to release the fluorescent lamp (3).
 - (c) Remove the fluorescent lamp (3).
- (4) Refer to figure 405 and remove the passenger-cabin-ceiling fluorescent lamps as follows:
- (a) (For Ceiling lights with shim) Remove the shim (2) part.
 - (b) Hold and compress the upper flange of the lens (1) to release it from the light fixture and pull to remove the lens.
 - (c) Put the manual deploy tool (4) in the hole of the lamp holder to release the fluorescent lamp (3).
 - (d) Remove the fluorescent lamp (3).

EFFECTIVITY:: AIRCRAFT WITH PUSH-TO-RELEASE HOLDER
 Passenger-Cabin-Sidewall Fluorescent Lamps - Removal/Installation
 Figure 402

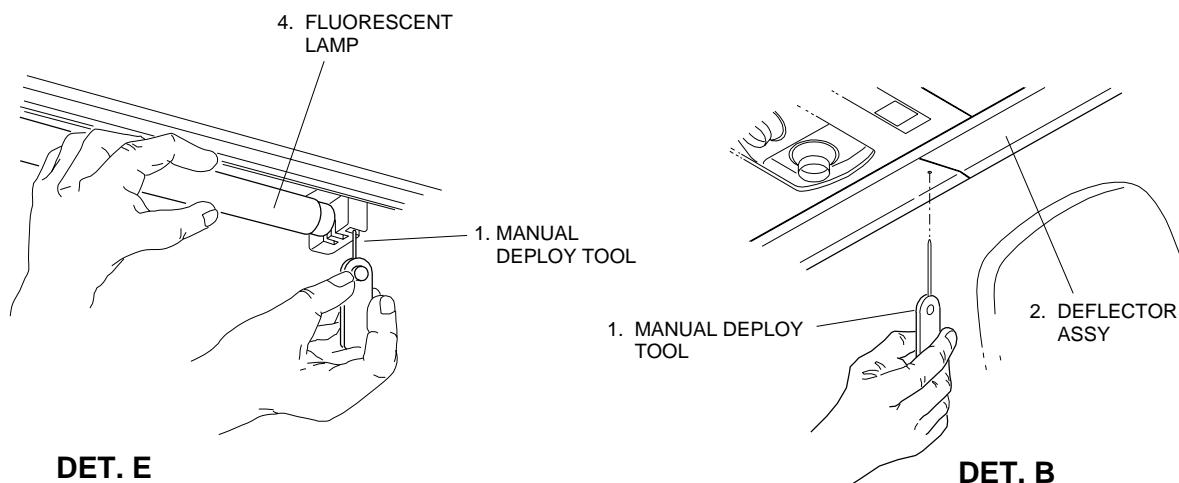


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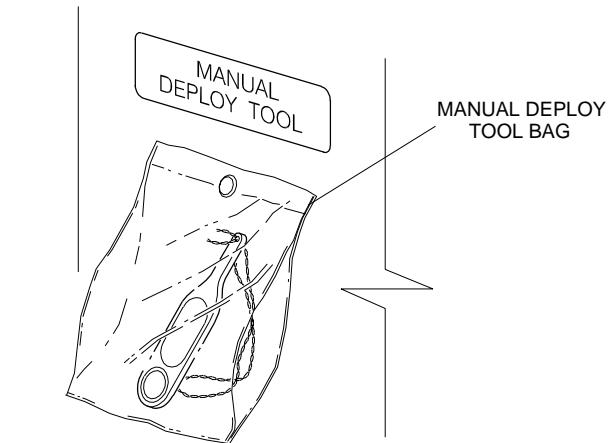
EFFECTIVITY:: AIRCRAFT WITH TOOL-RELEASEABLE HOLDER
 Passenger-Cabin-Sidewall Fluorescent Lamps - Removal/Installation
 Figure 403



DET. A



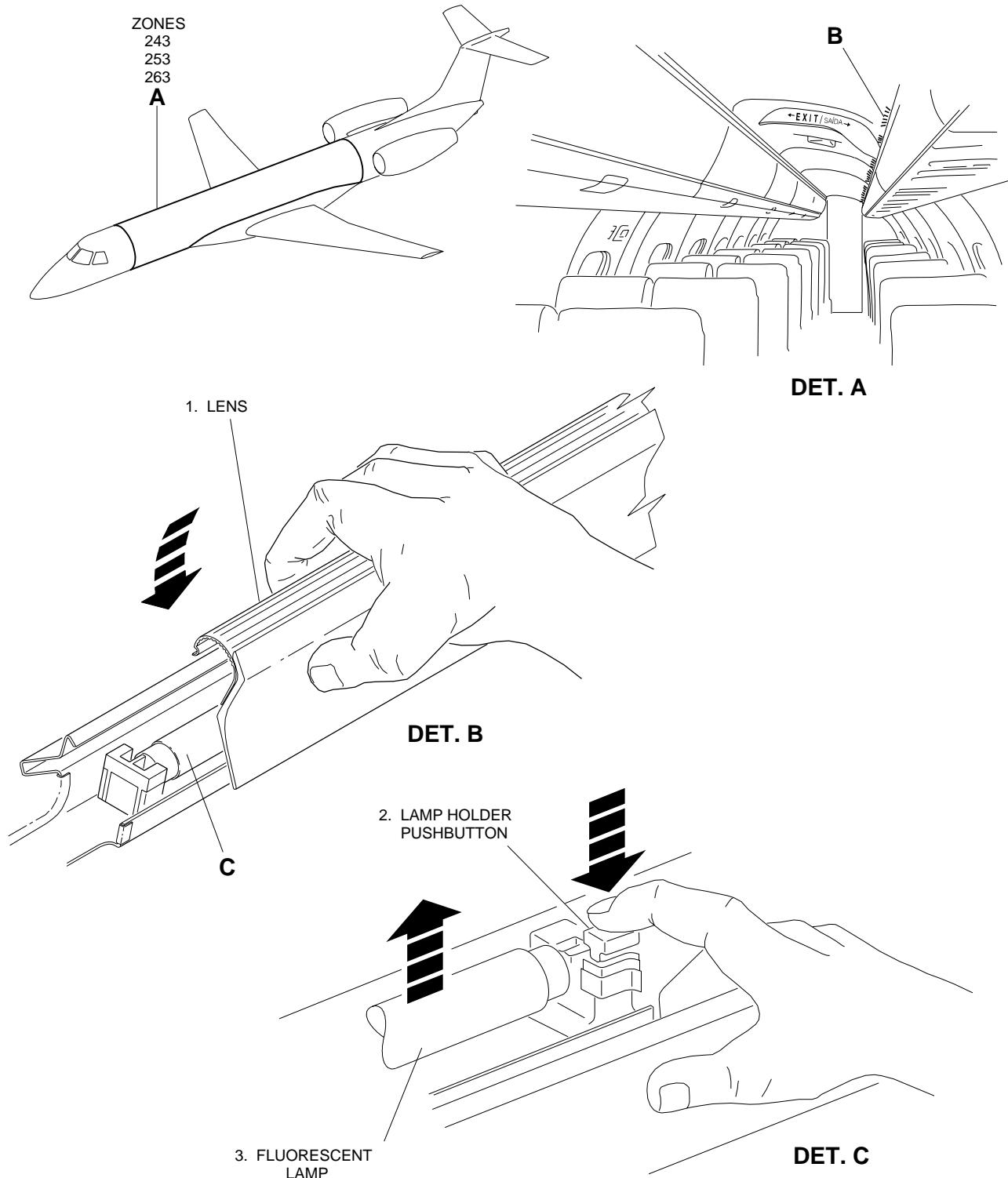
DET. E



DET. C

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EFFECTIVITY:: AIRCRAFT WITH PUSH-TO-RELEASE HOLDER
Passenger-Cabin-Ceiling Fluorescent Lamps - Removal/Installation
Figure 404

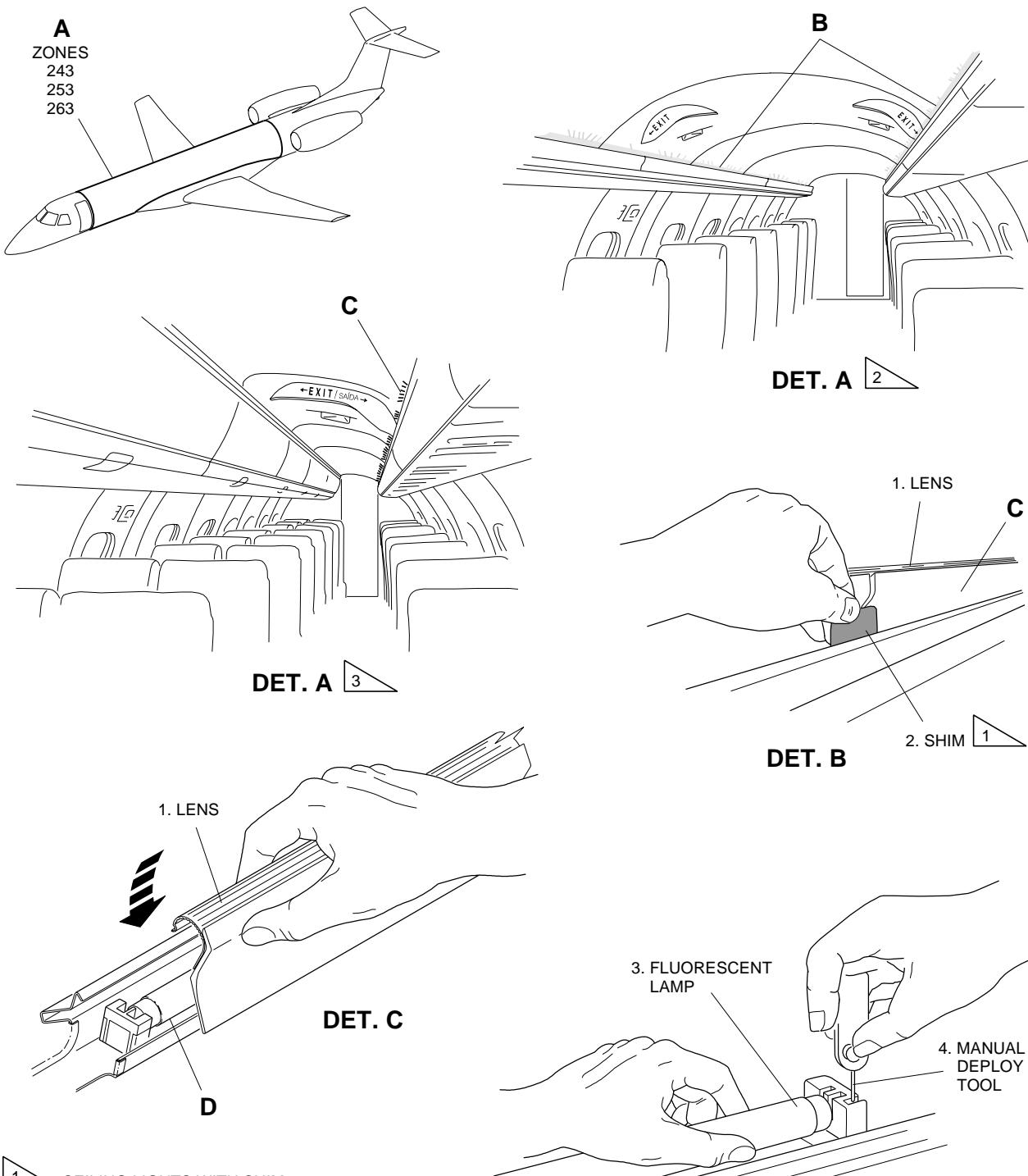


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EFFECTIVITY:: AIRCRAFT WITH TOOL-RELEASEABLE HOLDER

Passenger-Cabin-Ceiling Fluorescent Lamps - Removal/Installation

Figure 405

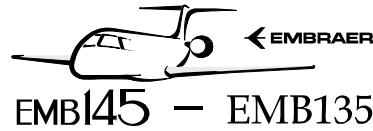


1 CEILING LIGHTS WITH SHIM.

2 AIRCRAFT FOR 16 PASSENGERS.

3 AIRCRAFT FOR 37 PASSENGERS.

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AIRCRAFT
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TASK 33-21-06-400-802-A

EFFECTIVITY: ALL

5. PASSENGER-CABIN FLUORESCENT LAMPS - INSTALLATION

A. General

(1) This procedure gives the instructions to install the passenger-cabin fluorescent lamps.

B. References

REFERENCE	DESIGNATION
AMM TASK 33-21-00-700-801-A/500	PASSENGER CABIN LIGHTS - OPERATIONAL TEST

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
233, 243, 253, 263		Passenger cabin, LH upper side
234, 244, 254, 264		Passenger cabin, RH upper side

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	In the passenger cabin

I. Installation (Figure 402) (Figure 403) (Figure 404) (Figure 405)

SUBTASK 420-003-A

- CAUTION:**
- EXAMINE THE LAMP HOLDER FOR DAMAGE. IF IT IS DAMAGED, REPLACE THE HOLDER.
 - MAKE SURE THAT AFTER YOU PUT THE LAMP IN POSITION, THE TWO ENDS OF THE LAMP ARE HELD AND LOCKED IN THE LAMP HOLDER, THE LAMP CONTACT POINTS ARE BELOW THE LAMP HOLDER WHILE THE CONTACT LOCKS AND THE LAMP IS CENTERED BETWEEN THE LAMP HOLDER. IF NOT, THERE WILL NOT BE A GOOD CONTACT AND PREMATURE LAMP BURN-OUT OR LAMP FAILURE CAN OCCUR.
 - MAKE SURE THAT THE SPRINGS IN THE LAMP HOLDER MOVE BACK TO THEIR NORMAL POSITION AFTER THE LAMP IS PUT INTO POSITION. THIS WILL HELP THE LAMP MAKE GOOD CONTACT WITH THE LAMP HOLDER AND THE LAMP CONTACTS WILL NOT COME AWAY FROM THE LAMP HOLDER. (A SMALL MIRROR CAN BE USED TO INSPECT FOR CORRECT LAMP INSTALLATION).

(1) Refer to figure 402 and install the passenger-cabin-sidewall fluorescent lamps as follows:

- (a) Push and hold the lamp holder pushbutton (3) to install the fluorescent lamp (4).
- (b) Adjust the fluorescent lamp (4) in the correct position and push the electrical contact at one end of the fluorescent lamp (4) against the lamp holder, then carefully engage the other end of the fluorescent lamp (4) and release the lamp holder pushbutton (3).

CAUTION: BE CAREFUL WHEN YOU INSTALL THE DEFLECTOR ASSEMBLY TO PREVENT PARTIAL DISENGAGEMENT OF THE LAMP FROM THE LAMP HOLDER.

- (c) Install the deflector assembly (2).

(2) Refer to figure 403 and install the passenger-cabin-sidewall fluorescent lamps as follows:

- (a) Put the manual deploy tool (1) in the hole of the lamp holder to install the fluorescent lamp (4).
- (b) Adjust the fluorescent lamp (4) in the correct position and push the electrical contact at one end of the fluorescent lamp (4) against the lamp holder, then carefully engage the other end of the fluorescent lamp (4) and pull the manual deploy tool (1).

NOTE: If the red tab indicators are visible, push the ends of the lamp against the lamp holder. The red tabs will retract out of view when the ends of the lamp are held and locked in the lamp holders.

CAUTION: BE CAREFUL WHEN YOU INSTALL THE DEFLECTOR ASSEMBLY TO PREVENT PARTIAL DISENGAGEMENT OF THE LAMP FROM THE LAMP HOLDER.

- (c) Install the deflector assembly (2).
- (3) Refer to figure 404 and install the passenger-cabin-ceiling fluorescent lamps as follows:
 - (a) Push and hold the lamp holder pushbutton (2) to install the fluorescent lamp (3).
 - (b) Adjust the fluorescent lamp (3) in the correct position and push the electrical contact at one end of the fluorescent lamp (3) against the lamp holder, then carefully engage the other end of the fluorescent lamp (3) and release the lamp holder pushbutton (2).
 - (c) Install the lens (1).
- (4) Refer to figure 405 and install the passenger-cabin-ceiling fluorescent lamps as follows:
 - (a) Put the manual deploy tool (4) in the hole of the lamp holder to install the fluorescent lamp (3).
 - (b) Adjust the fluorescent lamp (3) in the correct position and push the electrical contact at one end of the fluorescent lamp (3) against the lamp holder, then carefully engage the other end of the fluorescent lamp (3) and pull the manual deploy tool (4).

NOTE: If the red tab indicators are visible, push the ends of the lamp against the lamp holder. The red tabs will retract out of view when the ends of the lamp are held and locked in the lamp holders.
 - (c) Install the lens (1).
 - (d) (For Ceiling lights with shim) Install the shim (2) part.

J. Follow-on

SUBTASK 842-002-A

- (1) On the LH and RH DC DISTRIBUTION BOX circuit breaker panel, close the 1, 2, and 3 CABIN LT circuit breakers and remove the DO-NOT-CLOSE tag from them.
- (2) Do the operational test ([AMM TASK 33-21-00-700-801-A/500](#)).

