

RED BEACON LIGHTS - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the red beacon light assembly and lens.
- B. There are two red beacon light assemblies. One is installed as standard on the top of the fuselage and the other is installed as optional on the wing/fuselage fairing.
- 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
33-47-05-000-801-A	RED BEACON LIGHT ASSEMBLY - REMOVAL	ALL
33-47-05-400-801-A	RED BEACON LIGHT ASSEMBLY - INSTALLATION	ALL
33-47-05-000-802-A	RED BEACON LIGHT LENS - REMOVAL	ALL
33-47-05-400-802-A	RED BEACON LIGHT LENS - INSTALLATION	ALL
33-47-05-000-803-A	RED BEACON LIGHT LAMP REFLECTOR ASSEMBLY - REMOVAL	ALL
33-47-05-400-803-A	RED BEACON LIGHT LAMP REFLECTOR ASSEMBLY - INSTALLATION	ALL

TASK 33-47-05-000-801-A

EFFECTIVITY: ALL

2. RED BEACON LIGHT ASSEMBLY - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the red beacon light assembly.
- (2) The approved cleaning material for the interface between the light assembly and the structure is:
 - MEK

B. References

REFERENCE	DESIGNATION
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL
AMM TASK 33-47-05-000-802-A/400	RED BEACON LIGHT LENS - REMOVAL
SRM 51-20-01/1	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
250		Fuselage center section III
192		Center wing-to-fuselage fairing

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Polyethylene spatula	To remove the sealant	1
Commercially available	Clean dry cloth	To clean the areas	AR
Commercially available	Electrostatic Discharge (ESD) Protective Cap	To protect the electrical connector	1

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
ASTM D-740	Methyl-Ethyl-Ketone (MEK)	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	At the top fuselage skin and at the wing stub

I. Preparation

SUBTASK 841-006-A

- (1) On the circuit breaker panel, open the RED BEACON circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) Install the landing-gear safety pin ([AMM TASK 32-00-01-910-801-A/200](#)).

J. Removal [\(Figure 401\)](#) [\(Figure 402\)](#)

SUBTASK 020-006-A

EFFECTIVITY: FOR ACFT WITH CIRCULAR RED BEACON

WARNING: WAIT 10 MINUTES AFTER YOU REMOVE THE POWER BEFORE YOU DISCONNECT THE ELECTRICAL CABLES. A HIGH-VOLTAGE ELECTRIC CHARGE IS STORED IN THE POWER SUPPLY. IF YOU DO NOT OBEY THIS PRECAUTION, INJURY TO PERSONS AND/OR DAMAGE TO THE EQUIPMENT CAN OCCUR.

- (1) Remove the red beacon light assembly [\(5\)](#) as follows [\(Figure 401\)](#):

CAUTION: DO NOT USE METAL BRUSHES, METAL SCRAPERS, CHIPCHASERS, PICKS, SCREWDRIVERS, BLADES, STEEL WOOL, OR ABRASIVES TO REMOVE SEALANTS AND PAINT. THESE TOOLS CAN CAUSE SCRATCHES AND CRACKS AND, AS A RESULT, SERIOUS DAMAGE TO THE AIRCRAFT CAN OCCUR.

- (a) Carefully remove the sealant from along the contour of the light assembly [\(5\)](#) before you remove it. Use a polyethylene spatula, if necessary (SRM 51-20-01/1).
- (b) Remove the eight screws [\(2\)](#) that attach the lamp assembly [\(5\)](#) to the structure.

CAUTION: DO NOT TOUCH THE ELECTRICAL PINS OF THE CONNECTORS. DAMAGE CAN OCCUR TO THE INTERNAL ESDS COMPONENTS.

- (c) Carefully pull out the red beacon light assembly [\(5\)](#) and disconnect the electrical connector [\(1\)](#) from it.

NOTE: Take care not to drop the electrical connector into the aircraft structure.

- (d) Remove the red beacon light assembly [\(5\)](#).

CAUTION: DO NOT USE METAL BRUSHES, METAL SCRAPERS, CHIPCHASERS, PICKS, SCREWDRIVERS, BLADES, STEEL WOOL, OR ABRASIVES TO REMOVE SEALANTS AND PAINT. THESE TOOLS CAN CAUSE SCRATCHES AND CRACKS AND, AS A RESULT, SERIOUS DAMAGE TO THE AIRCRAFT CAN OCCUR.

- (e) Remove and discard the gasket (6) and the unwanted sealant (SRM 51-20-01/1). Use a polyethylene spatula, if necessary, and clean the area with MEK and a clean cloth.

SUBTASK 020-006-B

EFFECTIVITY: FOR ACFT WITH AERODYNAMIC RED BEACON

WARNING: WAIT 10 MINUTES AFTER YOU REMOVE THE POWER BEFORE YOU DISCONNECT THE ELECTRICAL CABLES. A HIGH-VOLTAGE ELECTRIC CHARGE IS STORED IN THE POWER SUPPLY. IF YOU DO NOT OBEY THIS PRECAUTION, INJURY TO PERSONS AND/OR DAMAGE TO THE EQUIPMENT CAN OCCUR.

- (2) Remove the red beacon light assembly (4), refer to [Figure 402](#):

NOTE: If necessary, it is possible to remove and install the light (7) without removing the adapter plate (15). Refer to [Figure 402](#), detail A and B.

CAUTION: DO NOT USE METAL BRUSHES, METAL SCRAPERS, CHIPCHASERS, PICKS, SCREWDRIVERS, BLADES, STEEL WOOL, OR ABRASIVES TO REMOVE SEALANTS AND PAINT. THESE TOOLS CAN CAUSE SCRATCHES AND CRACKS AND, AS A RESULT, SERIOUS DAMAGE TO THE AIRCRAFT CAN OCCUR.

- (a) Remove the sealant (5) from along the contour of the light assembly (4) before you remove it. Use a polyethylene spatula, if necessary (SRM 51-20-01/1). Refer to [Figure 402](#), detail A.
- (b) Remove the screws (2) that attach the light assembly (4).
- (c) Remove the sealant (16) from the internal access of the light assembly (4) between the adapter plate (15) and connector. Refer to [Figure 402](#), detail F.

CAUTION: DO NOT TOUCH THE ELECTRICAL PINS OF THE CONNECTORS. DAMAGE CAN OCCUR TO THE INTERNAL ESDS COMPONENTS.

- (d) Carefully pull out the red beacon light assembly (4) and disconnect the electrical connector (1) from it.

NOTE: Take care not to drop the electrical connector into the aircraft structure.

- (e) Put an ESD protective cap on the electrical connector (1).
- (f) Remove the light assembly (4).

- (3) If you remove the light (7) without to remove the adapter plate (15), remove as follows, refer to [Figure 402](#), detail C:

- (a) Remove the red beacon light lens (3) ([AMM TASK 33-47-05-000-802-A/400](#)).

CAUTION: DO NOT USE METAL BRUSHES, METAL SCRAPERS, CHIPCHASERS, PICKS, SCREWDRIVERS, BLADES, STEEL WOOL, OR ABRASIVES TO REMOVE SEALANTS AND PAINT. THESE TOOLS CAN CAUSE SCRATCHES AND CRACKS AND, AS A RESULT, SERIOUS DAMAGE TO THE AIRCRAFT CAN OCCUR.

(b) Carefully remove the sealant (5) from along the contour of the light (7) before you remove it. Use a polyethylene spatula if necessary (SRM 51-20-01/1). Refer to Figure 402, detail B.

(c) Remove the screws (8) that attach the light (7) to the assembly (4).

CAUTION: DO NOT USE METAL BRUSHES, METAL SCRAPERS, CHIPCHASERS, PICKS, SCREWDRIVERS, BLADES, STEEL WOOL, OR ABRASIVES TO REMOVE SEALANTS AND PAINT. THESE TOOLS CAN CAUSE SCRATCHES AND CRACKS AND, AS A RESULT, SERIOUS DAMAGE TO THE AIRCRAFT CAN OCCUR.

(d) (FOR ACFT WITH AERODYNAMIC RED BEACON - P/N EMB145-RBL-900) Carefully remove the sealant (6) between the light (7) and the mounting gasket (14). Use a polyethylene spatula if necessary (SRM 51-20-01/1).

(e) Remove and discard the mounting gasket (14).

(f) Carefully remove the sealant (16) from the internal access of the light assembly (4) between the adapter plate (15) and connector. Refer to Figure 402, detail F.

CAUTION: DO NOT TOUCH THE ELECTRICAL PINS OF THE CONNECTORS. DAMAGE CAN OCCUR TO THE INTERNAL ESDS COMPONENTS.

(g) Carefully pull out the light (7) and disconnect the electrical connector (1) from it.

NOTE: Take care not to drop the electrical connector into the aircraft structure.

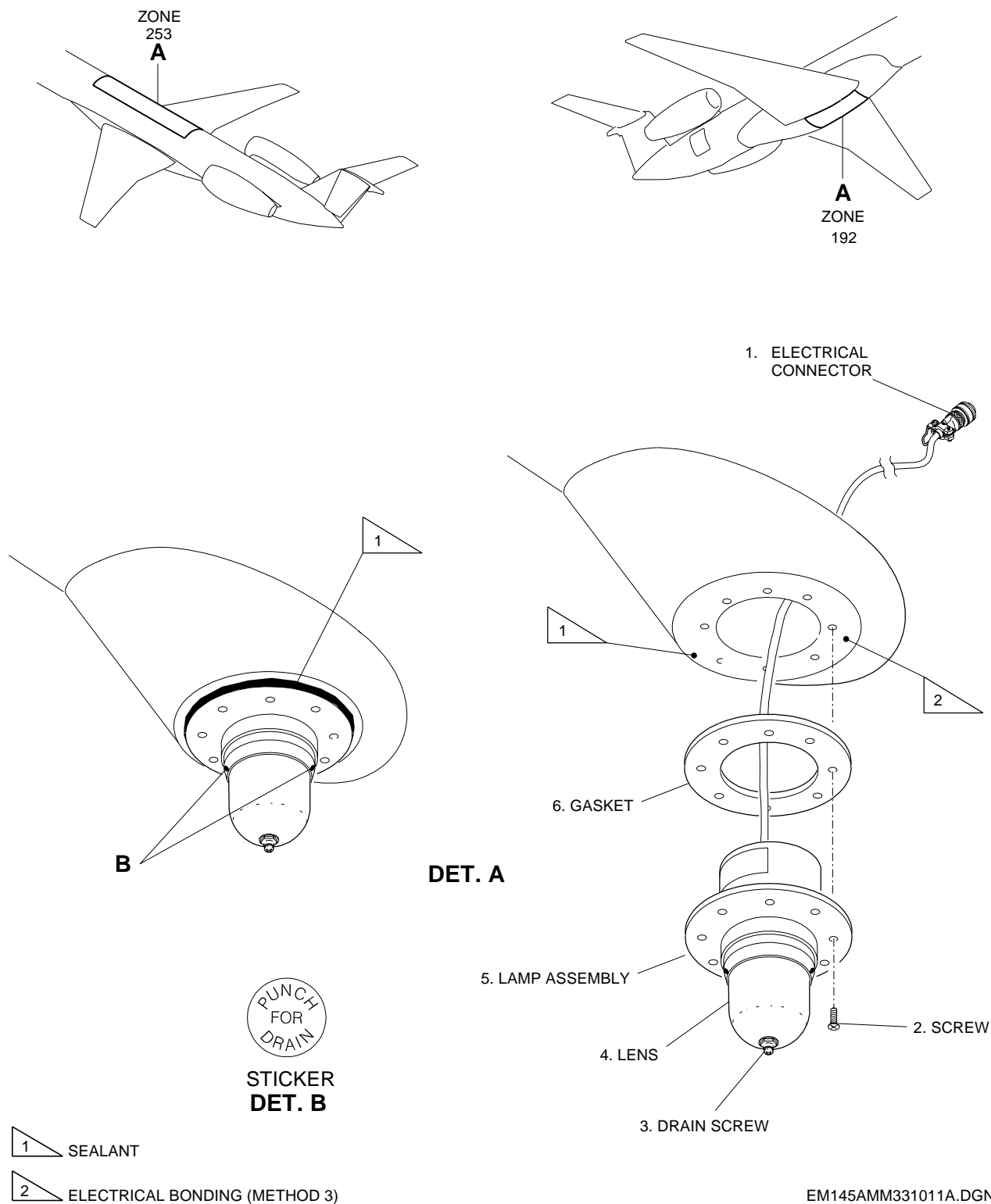
(h) Put an ESD protective cap on the electrical connector (1).

(i) Remove the light (7).

EFFECTIVITY:: FOR ACFT WITH CIRCULAR RED BEACON AND PRE-MOD SB 145-33-0006

Red Beacon Lights - Removal/Installation

Figure 401 - Sheet 1

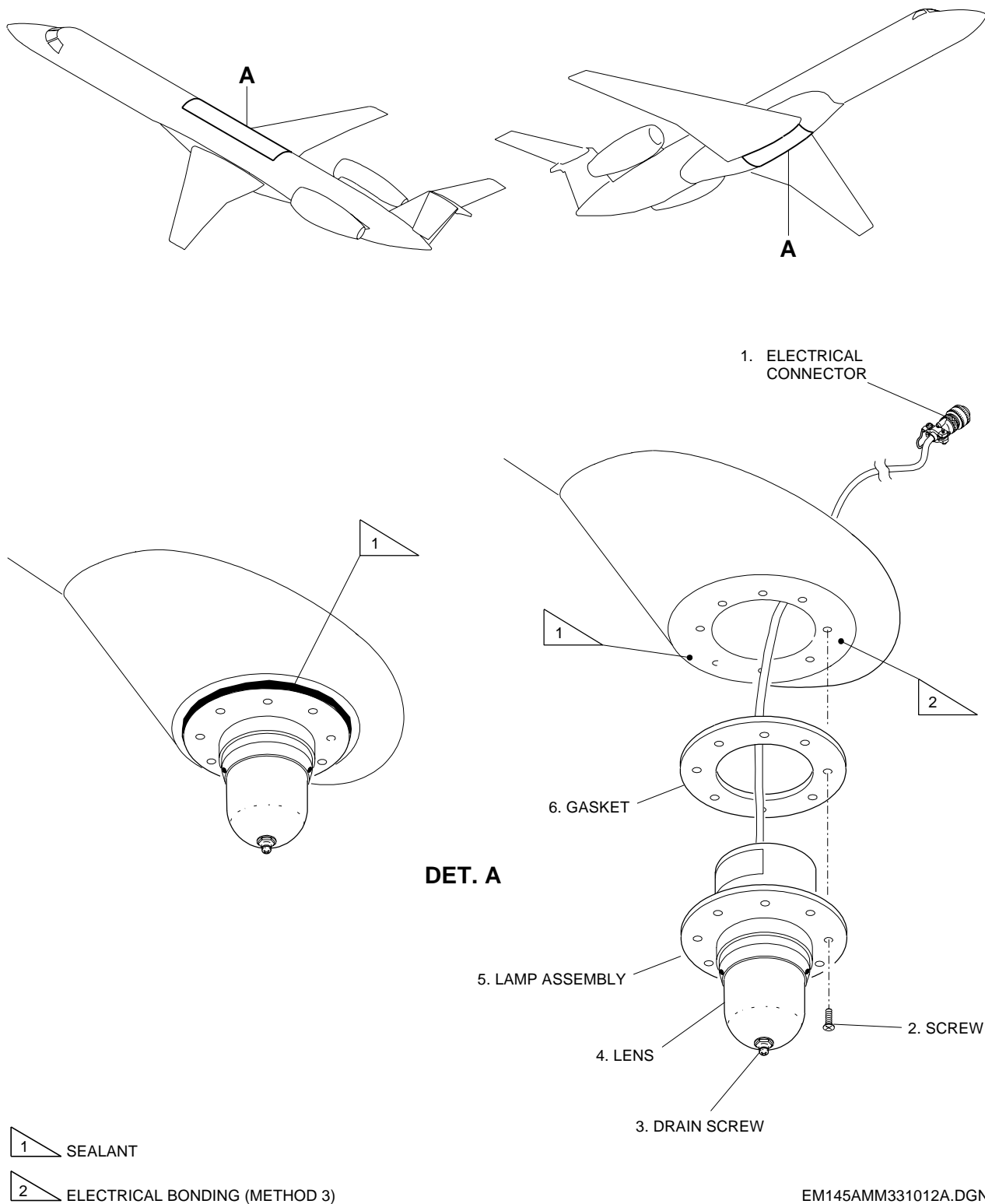


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EFFECTIVITY:: FOR ACFT WITH CIRCULAR RED BEACON AND POST-MOD SB 145-33-0006

Red Beacon Lights - Removal/Installation

Figure 401 - Sheet 2

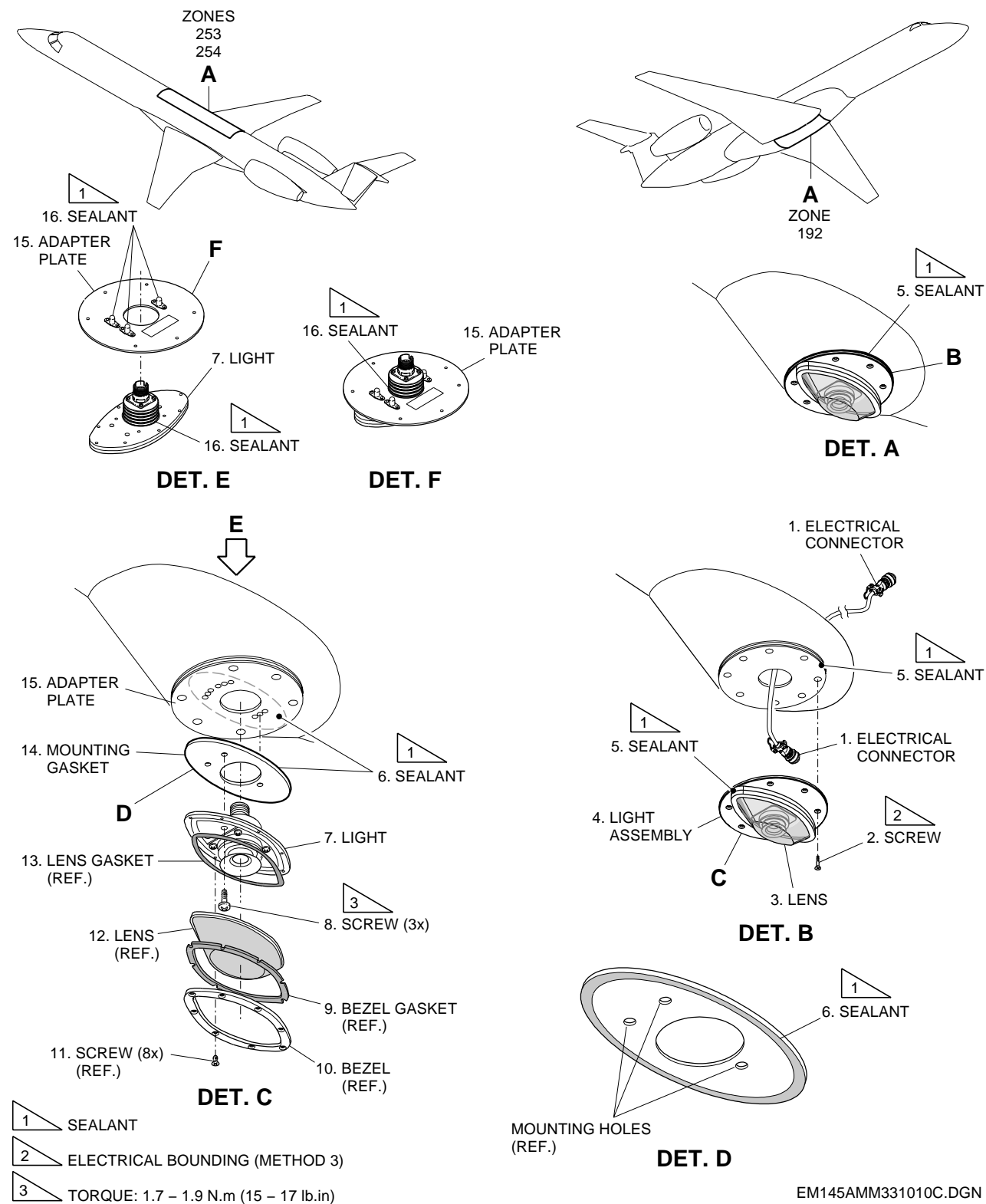


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EFFECTIVITY:: FOR ACFT WITH AERODYNAMIC RED BEACON - P/N EMB145-RBL-900

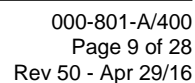
Red Beacon Lights - Removal/Installation

Figure 402 - Sheet 1



EM145AMM331010C.DGN

Figure 402 - Sheet 2



TASK 33-47-05-400-801-A
EFFECTIVITY: ALL

3. RED BEACON LIGHT ASSEMBLY - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the red beacon light assembly.
- (2) Refer to IPC 33-47-05 for the correct part number information.
- (3) (FOR ACFT WITH CIRCULAR RED BEACON) The approved sealants for the interface between the light assembly and the structure are:
 - PR 2050 B1/2
 - P/S870C-12
- (4) (FOR ACFT WITH CIRCULAR RED BEACON) The approved sealants for the contour of the light assembly are:
 - PR 2050 B1/2-693 SEMKIT
 - P/S870 B-1/2 654 SEMKIT
- (5) (FOR ACFT WITH AERODYNAMIC RED BEACON) The approved sealant (5) for the interface between the light assembly (4) and the structure, and for the contour of the light (7), is:
 - PR 2050 B1/2
- (6) (FOR ACFT WITH AERODYNAMIC RED BEACON) The grease to be applied on the mounting plate is:
 - MOLIKOTE DC-33 LIGHT
- (7) (FOR ACFT WITH AERODYNAMIC RED BEACON) The approved sealant (16) in the internal access of the red beacon light (7) between the adapter plate (15) and connector, is:
 - RTV 832 Sealant
- (8) (FOR ACFT WITH AERODYNAMIC RED BEACON) The approved sealant (6) for the mounting gasket (14) is:
 - 3145 RTV Sealant
- (9) The approved cleaning material for the interface between the light assembly and the structure is:
 - MEK

B. References

REFERENCE	DESIGNATION
AMM TASK 20-13-21-910-801-A/200	TYPES OF ELECTRICAL BONDING AND SURFACE PREPARATION - STANDARD PROCEDURES
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL

(Continued)

REFERENCE	DESIGNATION
AMM TASK 33-47-00-700-801-A/500	ANTICOLLISION LIGHTS - OPERATIONAL TEST
AMM TASK 33-47-05-000-801-A/400	RED BEACON LIGHT ASSEMBLY - REMOVAL
AMM TASK 33-47-05-400-802-A/400	RED BEACON LIGHT LENS - INSTALLATION
IPC 33-47-05	RED BEACON LIGHTS
S.B.145-33-0006	-
SRM 51-20-01/1	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
250		Fuselage center section III
192		Center wing-to-fuselage fairing

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Electrostatic Discharge (ESD) Protective Cap	To protect the electrical connector	1
Commercially available	Clean dry cloth	To clean the areas	AR

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
PR 2050 B1/2	Sealant	AR
3145 RTV	Sealant	AR
MOLIKOTE DC-33 LIGHT	Grease	AR
P/S870C-12	Sealant	AR
P/S870 B-1/2 654 SEMKIT	Sealant	AR
ASTM D-740	Methyl-Ethyl-Ketone (MEK)	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	At the top fuselage skin and at the wing stub

I. Installation (Figure 401) (Figure 402)

SUBTASK 420-006-A

EFFECTIVITY: FOR ACFT WITH CIRCULAR RED BEACON

- (1) Make sure that the aircraft is in the same configuration as it was at the end of the removal task (AMM TASK 33-47-05-000-801-A/400).
- (2) Install the red beacon light assembly (5) as follows (Figure 401):
 - (a) (PRE-MOD S.B.145-33-0006) If the red beacon light assembly is installed on the wing/fuselage fairing, make sure that the drain screw (3) is removed and the stickers are punched. This is to drain possible water collected in the red beacon light assembly. If the red beacon light assembly is installed on the top of the fuselage, make sure that the drain screw (3) is installed and that the stickers are not damaged and in position. This is to prevent the entrance of water in the assembly.

- (b) Do the bonding procedure, by method 3 (AMM TASK 20-13-21-910-801-A/200), between the red beacon light and their attaching points on the structure.

NOTE: The red beacon must bond electrically to the aircraft structure. You must remove all contamination, debris, or fluids from the bonding surfaces before installation.

- (c) Apply the approved sealant on the faying surface on the structure where the red beacon light assembly (5) will be installed (SRM 51-20-01/1).
 - (d) Install the gasket (6).

CAUTION: DO NOT TOUCH THE ELECTRICAL PINS OF THE CONNECTORS. DAMAGE CAN OCCUR TO THE INTERNAL ESDS COMPONENTS.

- (e) Remove the ESD protective cap from the electrical connector (1).
 - (f) Connect the electrical connector (1).
 - (g) Put the light assembly (5) in position and attach it with the screws (2).
 - (h) Apply the approved sealant (7) along the support base of the red beacon light (SRM 51-20-01/1).

SUBTASK 420-006-B

EFFECTIVITY: FOR ACFT WITH AERODYNAMIC RED BEACON

- (3) Make sure that the aircraft is in the same configuration as it was at the end of the removal task (AMM TASK 33-47-05-000-801-A/400).
- (4) If you removed the red- beacon light assembly (4) with adapter plate (15), Install as follows, refer to Figure 402, detail A and B:

CAUTION: DO NOT USE METAL BRUSHES, METAL SCRAPERS, CHIPCHASERS, PICKS, SCREWDRIVERS, BLADES, STEEL WOOL, OR ABRASIVES TO REMOVE SEALANTS AND PAINT. THESE TOOLS CAN CAUSE SCRATCHES AND CRACKS AND, AS A RESULT, SERIOUS DAMAGE TO THE AIRCRAFT CAN OCCUR.

- (a) Do a check of the faying surface sealant (5) for general condition. If there are signs of deterioration, remove the sealant with a polyethylene spatula and clean the area with a clean cloth and MEK.
- (b) If the sealant was removed, apply the approved sealant (5) for the interface between the light assembly (4) and the structure, and for the contour of the light (7) for the interface between with adapter plate (15) (SRM 51-20-01/1). Refer to Figure 402, detail A and B.
- (c) If the grease was removed, apply the approved grease on the faying surface on the adapter plate (15) (SRM 51-20-01/1).
- (d) Do the bonding procedure, by method 3 (AMM TASK 20-13-21-910-801-A/200), between the red beacon light and their attaching points (2) on the structure.

NOTE: The red beacon must bond electrically to the aircraft structure. You must remove all contamination, debris, or fluids from the bonding surfaces before installation.

CAUTION: DO NOT TOUCH THE ELECTRICAL PINS OF THE CONNECTORS. DAMAGE CAN OCCUR TO THE INTERNAL ESDS COMPONENTS.

- (e) Remove the ESD protective cap from the electrical connector (1).
- (f) Put the red beacon light assembly (4) in position, connect the electrical connector (1), and attach it with the screws (2).

NOTE: Take care not to drop the electrical connector into the aircraft structure.

- (g) Apply the approved sealant (16) behind of screw (8) and in the gap from the internal access of the light assembly (4) between the adapter plate (15) and connector. Refer to Figure 402, detail E and F.

- (5) If you removed the red beacon light (7) without remove adapter plate (15), Install as follows, refer to Figure 402, detail C:

- (a) (FOR ACFT WITH AERODYNAMIC RED BEACON - P/N EMB145-RBL-900)
Apply the approved sealant (6) on the two sides of the mounting gasket (14) (SRM 51-20-01/1).

NOTE: Do not apply sealant on or between the mounting holes. Refer to Figure 402, detail D.

- (b) Put the mounting gasket (14) in position.
- (c) Apply the approved sealant (16) in the gap from the internal access of the light assembly (4) and the adapter plate (15) and connector. Refer to Figure 402, detail E.

CAUTION: DO NOT TOUCH THE ELECTRICAL PINS OF THE CONNECTORS. DAMAGE CAN OCCUR TO THE INTERNAL ESDS COMPONENTS.

- (d) Remove the ESD protective cap from the electrical connector (1).
- (e) Put the light (7) in its installation position and connect the electrical connector (1).

- (f) Install the light (7) in the adapter plate (15) and attach with the screws (8). Refer to Figure 402, detail C.
- (g) Use a torque wrench to torque the screws (8) to 2.1 - 2.4 N.m (19 - 21lb.in).
- (h) Apply the approved sealant (16) behind of screw (8) and in the gap from the internal access of the light assembly (4) between the adapter plate (15) and connector. Refer to Figure 402, detail F.
- (i) Install the red beacon light lens (AMM TASK 33-47-05-400-802-A/400).

J. Follow-on

SUBTASK 842-006-A

- (1) Remove the DO-NOT-CLOSE tag from the Red Beacon circuit breaker and close the circuit breaker.
- (2) Remove the landing gear safety pin (AMM TASK 32-00-01-910-801-A/200).
- (3) Do the operational test of the red beacon lights (AMM TASK 33-47-00-700-801-A/500).

TASK 33-47-05-000-802-A

EFFECTIVITY: ALL

4. RED BEACON LIGHT LENS - REMOVAL

A. General

(1) This task gives the procedure to remove the red beacon light lens.

B. References

REFERENCE	DESIGNATION
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL
SRM 51-20-01/1	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
250		Fuselage center section III
192		Center wing-to-fuselage fairing

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Polyethylene spatula	To remove the sealant	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	At the top fuselage skin and at the wing stub

I. Preparation

SUBTASK 841-009-A

- (1) On the circuit breaker panel, open the RED BEACON circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) Install the landing gear safety pin ([AMM TASK 32-00-01-910-801-A/200](#)).

J. Removal (Figure 403) (Figure 404)

SUBTASK 020-009-A

EFFECTIVITY: FOR ACFT WITH CIRCULAR RED BEACON

WARNING: WAIT 10 MINUTES AFTER YOU REMOVE THE POWER BEFORE YOU DISCONNECT THE ELECTRICAL CABLES. A HIGH-VOLTAGE ELECTRIC CHARGE IS STORED IN THE POWER SUPPLY. IF YOU DO NOT OBEY THIS PRECAUTION, INJURY TO PERSONS AND/OR DAMAGE TO THE EQUIPMENT CAN OCCUR.

CAUTION: DO NOT TOUCH THE ELECTRICAL PINS OF THE CONNECTORS. DAMAGE CAN OCCUR TO THE INTERNAL ESDS COMPONENTS.

(1) Remove the red beacon light lens (3) as follows:

- (a) Remove the screws (4) of the lens attaching retainer (5).

CAUTION: DO NOT USE METAL BRUSHES, METAL SCRAPERS, CHIPCHASERS, PICKS, SCREWDRIVERS, BLADES, STEEL WOOL, OR ABRASIVES TO REMOVE SEALANTS AND PAINT. THESE TOOLS CAN CAUSE SCRATCHES AND CRACKS AND, AS A RESULT, SERIOUS DAMAGE TO THE AIRCRAFT CAN OCCUR.

- (b) Remove the sealant from along the contour of the retainer (5) before you remove it. Use a polyethylene spatula, if necessary (SRM 51-20-01/1).
- (c) Remove the retainer (5) and the lens (3).
- (d) Remove and discard the gaskets (7).
- (e) Remove the lens (3) of the red beacon light.

SUBTASK 020-009-B

EFFECTIVITY: FOR ACFT WITH AERODYNAMIC RED BEACON

WARNING: WAIT 10 MINUTES AFTER YOU REMOVE THE POWER BEFORE YOU DISCONNECT THE ELECTRICAL CABLES. A HIGH-VOLTAGE ELECTRIC CHARGE IS STORED IN THE POWER SUPPLY. IF YOU DO NOT OBEY THIS PRECAUTION, INJURY TO PERSONS AND/OR DAMAGE TO THE EQUIPMENT CAN OCCUR.

CAUTION: DO NOT TOUCH THE ELECTRICAL PINS OF THE CONNECTORS. DAMAGE CAN OCCUR TO THE INTERNAL ESDS COMPONENTS.

(2) Remove the red beacon light lens (3) as follows:

CAUTION: DO NOT USE METAL BRUSHES, METAL SCRAPERS, CHIPCHASERS, PICKS, SCREWDRIVERS, BLADES, STEEL WOOL, OR ABRASIVES TO REMOVE SEALANTS AND PAINT. THESE TOOLS CAN CAUSE SCRATCHES AND CRACKS AND, AS A RESULT, SERIOUS DAMAGE TO THE AIRCRAFT CAN OCCUR.

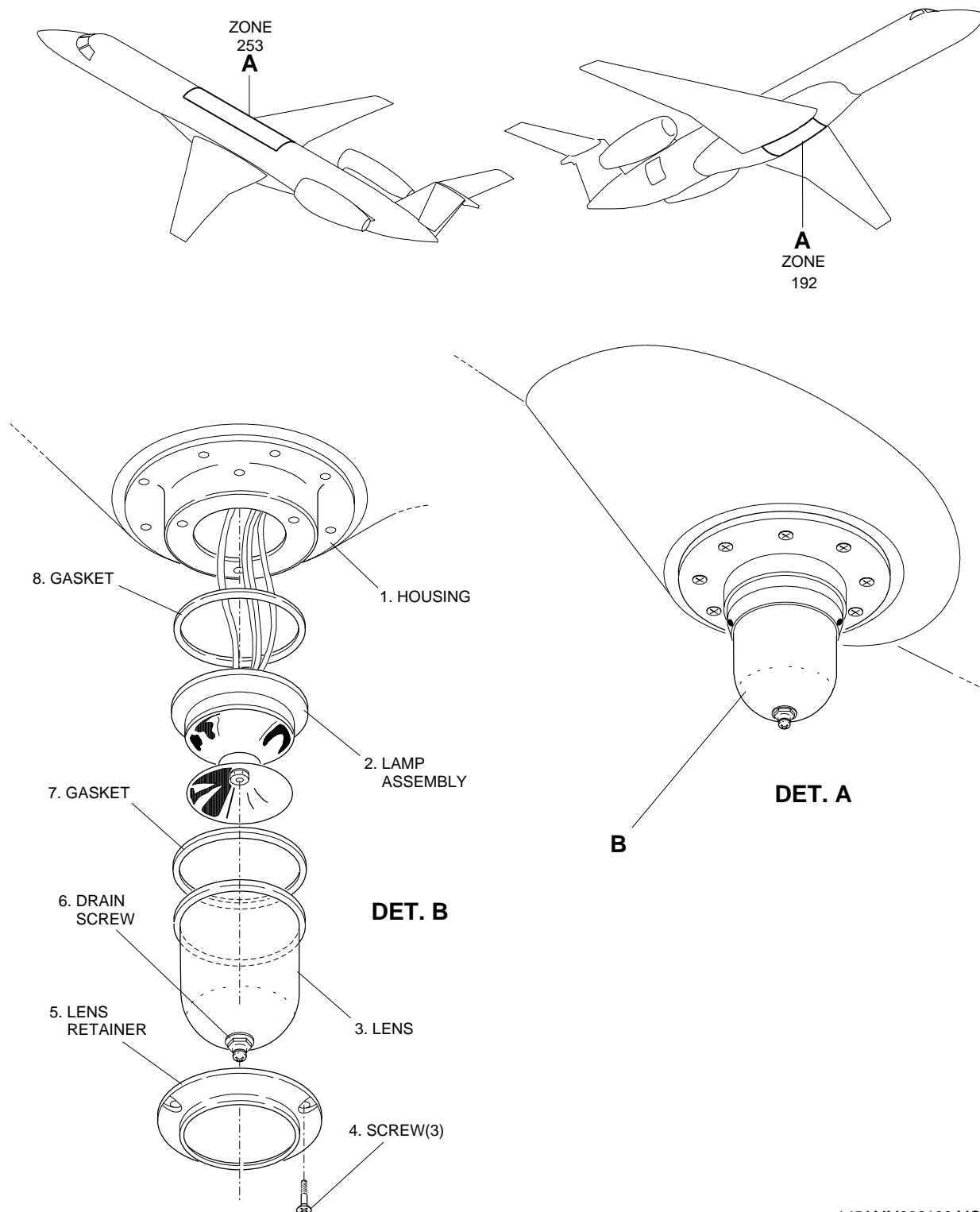
- (a) Remove the sealant (7) from along the contour of the bezel (5) before you remove it. Use a polyethylene spatula, if necessary (SRM 51-20-01/1).
- (b) Remove the screws (2) that attach the light lens bezel (5).

- (c) Remove the bezel (5).
- (d) Remove and discard the bezel gasket (4).
- (e) Remove the lens (3) of the lamp assembly (8).
- (f) Remove and discard the lens gasket (6).

EFFECTIVITY:: FOR ACFT WITH CIRCULAR RED BEACON AND PRE-MOD SB 145-33-0006

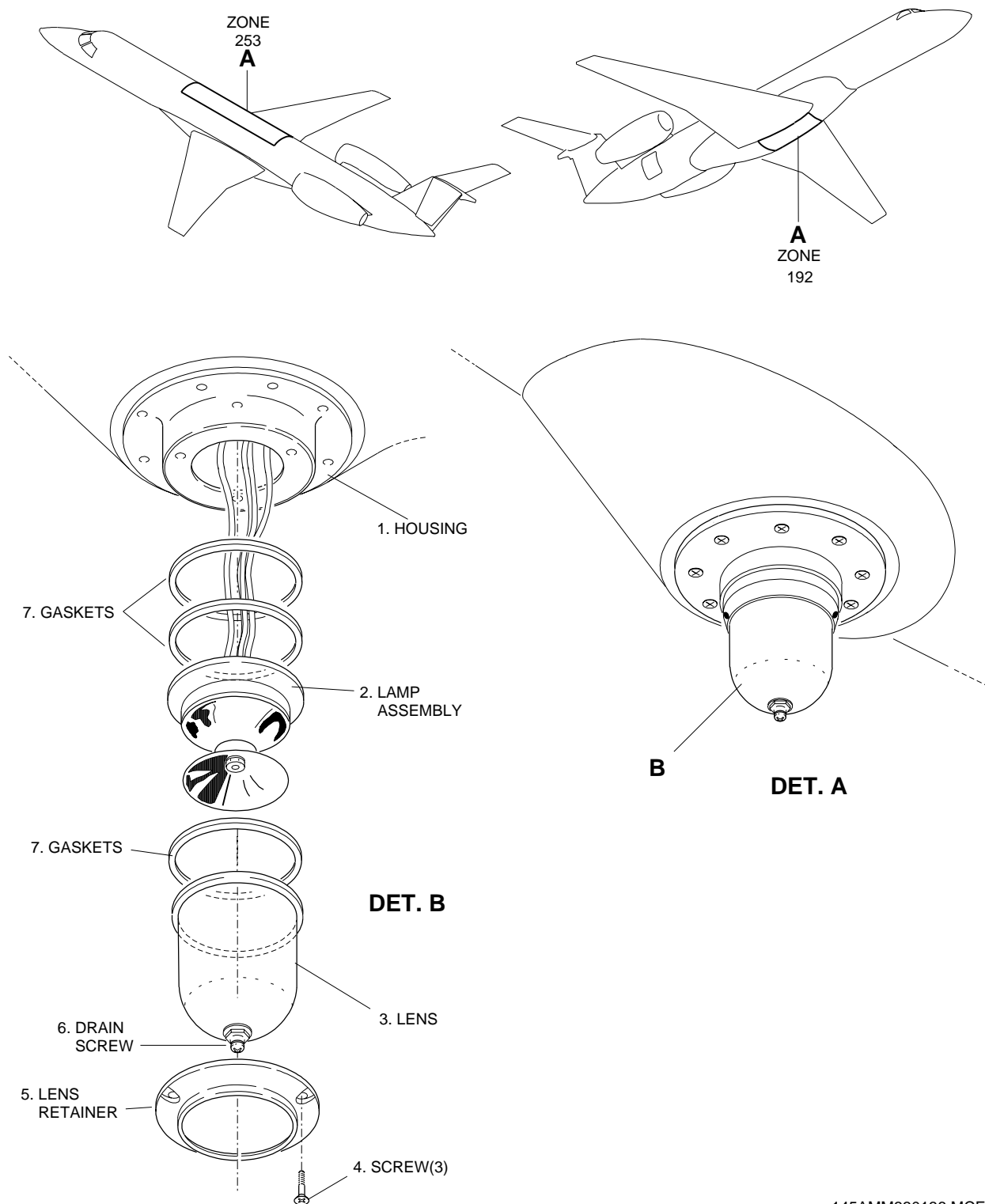
Red Beacon Light Lens - Removal/Installation

Figure 403 - Sheet 1



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EFFECTIVITY:: FOR ACFT WITH CIRCULAR RED BEACON AND POST-MOD SB 145-33-0006
Red Beacon Light Lens - Removal/Installation
Figure 403 - Sheet 2

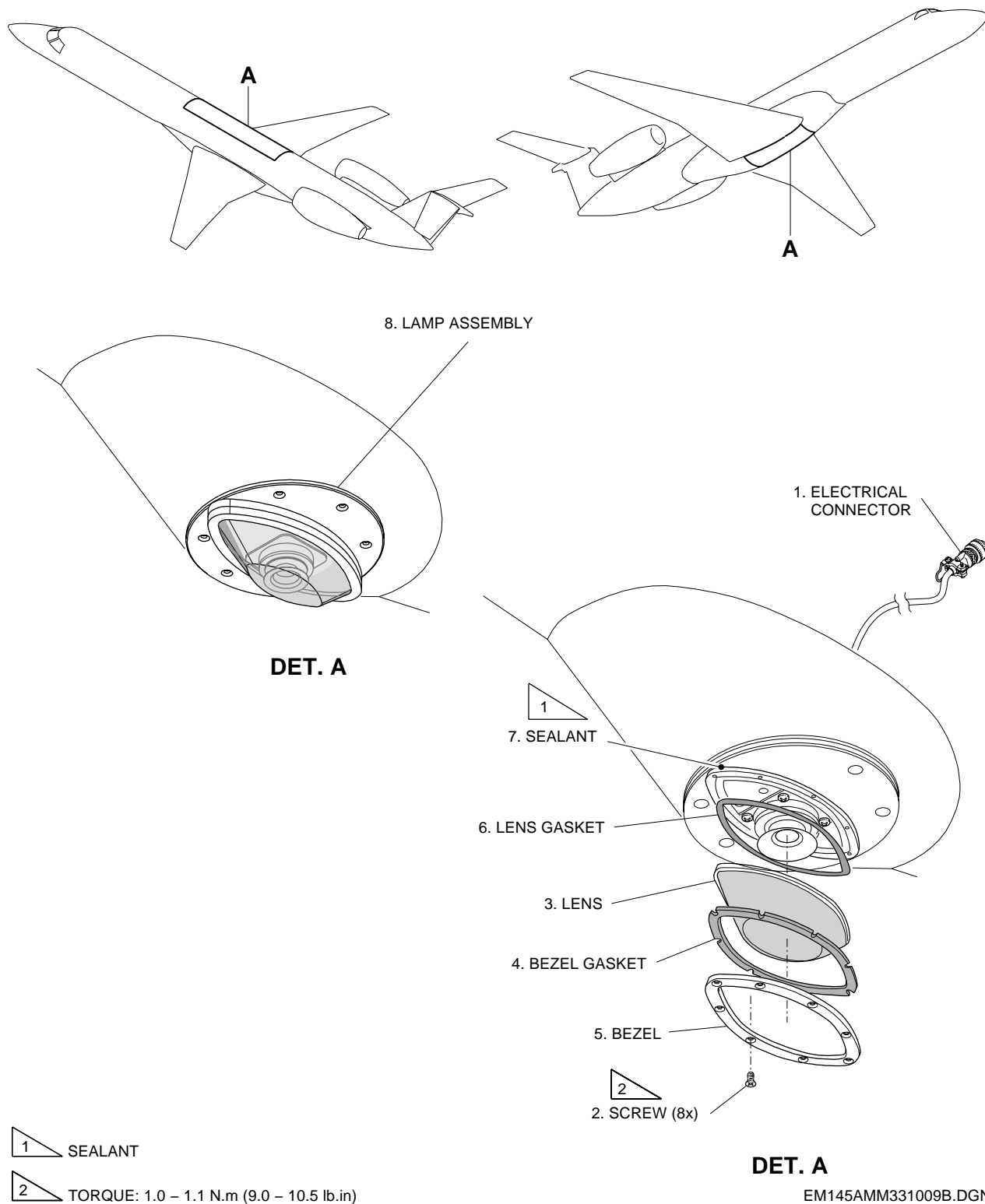


145AMM330136.MCE C

EFFECTIVITY:: FOR ACFT WITH AERODYNAMIC RED BEACON

Red Beacon Light Lens - Removal/Installation

Figure 404



TASK 33-47-05-400-802-A

EFFECTIVITY: ALL

5. RED BEACON LIGHT LENS - INSTALLATION

A. General

- (1) This task gives the procedures to install the Red Beacon Light Lens.
- (2) Refer to IPC 33-47-05 for the correct part number information.
- (3) (FOR ACFT WITH CIRCULAR RED BEACON) The approved sealants for the contour of the light assembly are:
 - P/S870 B-1/2 654 SEMKIT
 - PR 2050 B1/2
- (4) (FOR ACFT WITH AERODYNAMIC RED BEACON) The approved sealant (7) for the contour of the light is:
 - PR 2050 B1/2

B. References

REFERENCE	DESIGNATION
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL
AMM TASK 33-47-00-700-801-A/500	ANTICOLLISION LIGHTS - OPERATIONAL TEST
IPC 33-47-05	RED BEACON LIGHTS
S.B.145-33-0006	-
SRM 51-20-01/1	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
250		Fuselage center section III
192		Center wing-to-fuselage fairing

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
PR 2050 B1/2	Sealant	AR
P/S870 B-1/2 654 SEMKIT	Sealant	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	At the upper fuselage skin and at the wing stub

I. Installation (Figure 403) (Figure 404)

SUBTASK 420-009-A

EFFECTIVITY: FOR ACFT WITH CIRCULAR RED BEACON

CAUTION: DO NOT TOUCH THE ELECTRICAL PINS OF THE CONNECTORS. DAMAGE CAN OCCUR TO THE INTERNAL ESDS COMPONENTS.

- (1) (PRE-MOD S.B.145-33-0006) If the lens (3) are installed on the wing/fuselage fairing red beacon, make sure that the drain screw (6) is removed. If the lens (3) are installed on the top of the fuselage red beacon, make sure that the drain screw (6) is installed.
- (2) Install the lens of the red beacon light (3) as follows:
 - (a) Install the gaskets (7) on the housing (1). The gasket must be flat and in a perfect circle on the housing (1).
 - (b) Put the lens (3) and the retainer (5) in position and attach them with the screws (4).
 - (c) Apply the approved sealant along the lens of the red beacon light (SRM 51-20-01/1).

SUBTASK 420-009-B

EFFECTIVITY: FOR ACFT WITH AERODYNAMIC RED BEACON

CAUTION: DO NOT TOUCH THE ELECTRICAL PINS OF THE CONNECTORS. DAMAGE CAN OCCUR TO THE INTERNAL ESDS COMPONENTS.

- (3) Install the red beacon light lens (3) as follows:
 - (a) Put the lens gasket (6) and the lens (3) in position.
 - (b) Put the bezel gasket (4) and the bezel (5) in position.
 - (c) Attach the bezel (5), lens (3), and gaskets (6) and (4) with the screws (2).
 - (d) Use a torque wrench to torque the screws (2) to 1.0 - 1.1 N.m (9.0 - 10.5 lb.in).
 - (e) Apply the approved sealant (7) for the contour of the light (SRM 51-20-01/1). Refer to Figure 404.

J. Follow-on

SUBTASK 842-009-A

- (1) Remove the DO-NOT-CLOSE tag from the Red Beacon circuit breaker and close the circuit breaker.

- (2) Remove the landing gear safety pin ([AMM TASK 32-00-01-910-801-A/200](#)).
- (3) Do the operational test of the red beacon lights ([AMM TASK 33-47-00-700-801-A/500](#)).

TASK 33-47-05-000-803-A

EFFECTIVITY: ALL

6. RED BEACON LIGHT LAMP REFLECTOR ASSEMBLY - REMOVAL

A. General

(1) This task gives the procedure to remove the Red Beacon Light Lamp Reflector Assembly.

B. References

REFERENCE	DESIGNATION
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL
AMM TASK 33-47-05-000-802-A/400	RED BEACON LIGHT LENS - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
192		Center lower fairing
253		Upper fuselage skin

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 upper fuselage skin and at the wing stub

I. Preparation

SUBTASK 841-004-A

- (1) On the circuit breaker panel, open the RED BEACON circuit breaker and attach a DO-NOT-CLOSE tag to it (Location tip: DC BUS 2/LIGHT/RED BEACON).
- (2) Install the landing gear safety pin ([AMM TASK 32-00-01-910-801-A/200](#)).
- (3) Remove the Red Beacon Light Lens ([AMM TASK 33-47-05-000-802-A/400](#)).

J. Removal (Figure 405)

SUBTASK 020-004-A

WARNING: BEFORE YOU DISCONNECT CABLES OR OPEN THE UNIT, STOP FOR 10 MINUTES AFTER THE POWER REMOVAL. THIS HALOGEN CYCLE LAMP IS PRESSURIZED AND CAN SHATTER. BE CAREFUL AND WEAR PROTECTIVE EYE GLASSES AND CLOTHING WHEN YOU HANDLE THE LAMP. DISPOSE OF LAMP WITH CARE.

CAUTION: THE UNIT CONTAINS PARTS AND ASSEMBLIES WHERE DAMAGE BY ELECTROSTATIC DISCHARGE (ESD) CAN OCCUR.

- (1) Carefully pull the lamp reflector assembly (2) from the housing (1) to get access to the electrical terminals.
- (2) **NOTE:** To make the reinstallation easier, the wires and ring terminals from lamp reflector assembly must be identified and have location information.

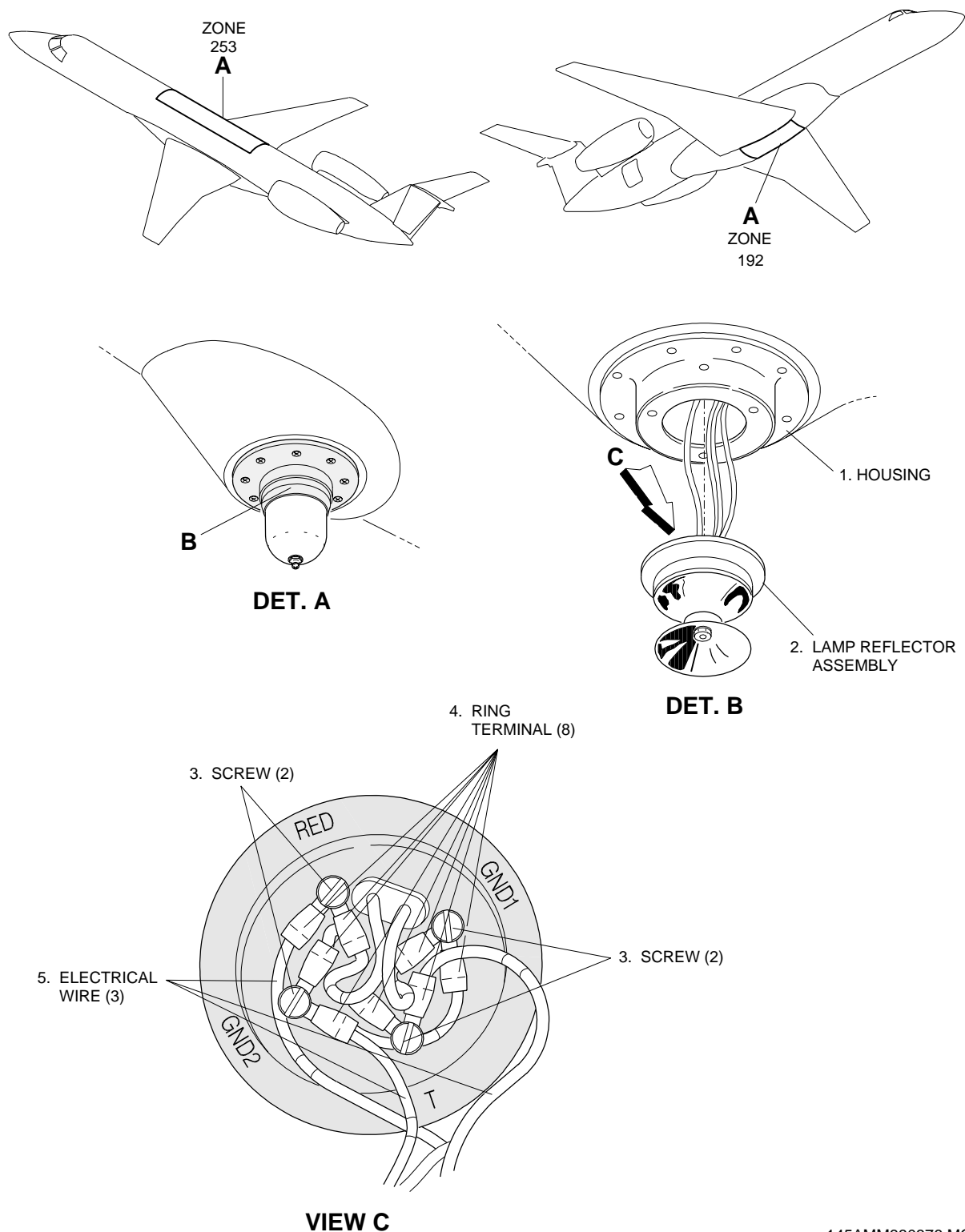
Remove the four screws (3) that attach the eight ring terminals (4) and of electrical wires (5) to the lamp reflector assembly (2).

- (3) Disconnect the eight ring terminals (4).
- (4) Remove the lamp reflector assembly (2).

EFFECTIVITY:: ALL

Red Beacon Light Lamp Reflector Assembly - Removal/Installation

Figure 405



145AMM330376.MCE

TASK 33-47-05-400-803-A

EFFECTIVITY: ALL

7. RED BEACON LIGHT LAMP REFLECTOR ASSEMBLY - INSTALLATION

A. General

(1) This task gives the procedures to install the Red Beacon Light Lamp Reflector Assembly.

B. References

REFERENCE	DESIGNATION
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL
AMM TASK 33-47-00-700-801-A/500	ANTICOLLISION LIGHTS - OPERATIONAL TEST
AMM TASK 33-47-05-400-802-A/400	RED BEACON LIGHT LENS - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
192		Center lower fairing
253		Upper fuselage skin

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 upper fuselage skin and at the wing stub

I. Installation (Figure 405)

SUBTASK 420-004-A

WARNING: THIS HALOGEN CYCLE LAMP IS PRESSURIZED AND CAN SHATTER. BE CAREFUL AND WEAR PROTECTIVE EYE GLASSES AND CLOTHING WHEN YOU HANDLE THE LAMP.

CAUTION: THE UNIT CONTAINS PARTS AND ASSEMBLIES WHERE DAMAGE BY ELECTROSTATIC DISCHARGE (ESD) CAN OCCUR.

CAUTION: SEE THEIR IDENTIFICATION TO MAKE SURE THAT THE ELECTRICAL WIRES ARE INSTALLED CORRECTLY. INCORRECT INSTALLATION OF THE ELECTRICAL WIRES WILL CAUSE PROBLEMS TO THE AIRCRAFT.

- (1) Connect the eight ring terminals (4) to the lamp reflector assembly (2) with the four screws (3).
- (2) Tighten the four screws (3) that attach the eight ring terminals (4).

J. Follow-on

SUBTASK 842-004-A

- (1) Install the Red Beacon Light Lens ([AMM TASK 33-47-05-400-802-A/400](#)).
- (2) Remove the DO-NOT-CLOSE tag from the Red Beacon circuit breaker and close the circuit breaker.
- (3) Remove the landing gear safety pin ([AMM TASK 32-00-01-910-801-A/200](#)).
- (4) Do the operational test of the Red Beacon Lights ([AMM TASK 33-47-00-700-801-A/500](#)).