# CHAPTER 33

# LIGHTS

## CHAPTER 33
## LIGHTS

| Subject/Page | Date | COC |
|---|---|---|
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| 1 | JUN 15/2016 | |
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| 33-010-00-01 | SYS | |
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| R 2 | Jun 15/2016 | |
| 33-065-00-01 | SYS | |
| D 1 | Jun 15/2016 | |
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| 33-070-00-01 | SYS | |
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| R 7 | Jun 15/2016 | |
| 33-080-00-01 | SYS | |
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| 33-090-00-01 | SYS | |
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A = Added, R = Revised, D = Deleted, O = Overflow, C = Customer Originated Change

# 33-EFFECTIVE PAGES

| AIRLINE CARD NO | | TITLE | | | BOEING CARD NO. |
|---|---|---|---|---|---|
| | | **EMERGENCY LIGHTS** | | | **33-010-00-01** |
| DATE | TASK | | | | RELATED CARD |
| | **OPERATIONAL** | | | | |
| TAIL NUMBER | WORK AREA | VERSION | THRESHOLD | REPEAT | APPLICABILITY |
| | **PASS CABIN** | **1.1** | **600 FH** | **600 FH** | AIRPLANE **ALL** ENGINE **ALL** |
| STATION | SKILL | | | | |
| | **AIRPL** | | | | |
| | | ACCESS | | | ZONE **200** |
| | | | | | |

Operational check of the emergency lights.

## A. References

| Reference | Title |
|---|---|
| WDM 33-51-11 thru 33-51-21 | Wiring Diagram Manual |
| WDM 33-51-22 | Wiring Diagram Manual |

| DATE | TAIL NUMBER | STATION | AIRLINE CARD NO. | BOEING CARD NO. 33-010-00-01 |
|---|---|---|---|---|
| | | | | |

**TASK 33-51-00-710-801**

| MECH | INSP |
|---|---|
| | |

## 1. Emergency Lights - Operational Test

### A. General

(1) This test makes sure the emergency lights come on.

### B. Procedure

**SUBTASK 33-51-00-710-001**

(1) Do a check of the emergency lights (WDM 33-51-11 thru 33-51-21 and WDM 33-51-22):

(a) At the overhead panel, P5, or the aft attendant panel, set the emergency light switch to the on mode.

NOTE: The power supply operates the emergency lights. Use the lights for a minimum time to do the test.

1) Make sure the emergency dome light comes on.

2) Make sure the lights in the passenger compartment come on.

NOTE: This check includes all types of emergency area lights, exit signs, escape hatch handles, and floor proximity lights in the passenger compartment.

3) Make sure the exterior lights come on.

NOTE: This check includes all slide and overwing lights.

(b) Set the switch to the off mode.

1) Make sure the emergency dome light goes off.

2) Make sure the lights in the passenger compartment go off.

3) Make sure the exterior lights go off.

**——— END OF TASK ———**

| AIRLINE CARD NO | | TITLE | | | BOEING CARD NO. |
|---|---|---|---|---|---|
| | | **EMERGENCY LIGHTING SWITCH OPERATIONAL TEST** | | | **33-020-00-01** |
| DATE | TASK<br>**OPERATIONAL** | | | | RELATED CARD |
| TAIL NUMBER | WORK AREA<br>**CREW CABIN** | VERSION<br>**1.1** | THRESHOLD<br>**2 YR** | REPEAT<br>**2 YR** | APPLICABILITY<br>AIRPLANE: **ALL** ENGINE: **ALL** |
| STATION | SKILL<br>**ELEC** | | | | |
| | | ACCESS | | | ZONE<br>**210 220 230 240** |
| | | | | | |

Operational check of the flight deck emergency lighting switch "on" and "armed" position and attendant panel emergency light switch "on" position.

## A. References

| Reference | Title |
|---|---|
| AMM 24-22-00-860-811 | Supply Electrical Power (P/B 201) |
| AMM 33-51-06-610-802 | Power Supply - Charge the Battery Packs (P/B 201) |
| WDM 33-51-11 thru 33-51-22 | Wiring Diagram Manual |

| DATE | TAIL NUMBER | STATION | AIRLINE CARD NO. | BOEING CARD NO. |
|---|---|---|---|---|
| | | | | 33-020-00-01 |

MECH | INSP

**TASK 33-51-00-720-801**

## 1. Emergency Lights - Operational Check

### A. General

(1) This test makes sure all components in the emergency lighting system operate.

### B. Procedure

**SUBTASK 33-51-00-610-001**

(1) Make sure the battery packs are fully charged before you do this task (Power Supply - Charge the Battery Packs, AMM TASK 33-51-06-610-802).

**SUBTASK 33-51-00-860-001**

(2) Do this task: Supply Electrical Power, AMM TASK 24-22-00-860-811.

**SUBTASK 33-51-00-710-003**

(3) Do a check of the emergency lighting system with the pilots emergency light switch (WDM 33-51-11 thru 33-51-22) .

(a) At the overhead panel, P5, set the pilots emergency light switch to the on mode.

1) Make sure the emergency dome light, L00273, comes on.

NOTE: The location of the emergency dome light is in the flight deck.

2) Make sure the exterior lights come on.

NOTE: This check includes all slide and overwing lights.

3) Make sure the lights in the passenger compartment come on.

NOTE: This check includes all types of emergency area lights, exit signs, escape hatch handles, and floor proximity lights in the passenger compartment.

(b) Set the switch to the off mode.

1) Make sure the emergency dome light, L00273, goes off.

NOTE: The location of the emergency dome light is in the flight deck.

2) Make sure the NOT ARMED indication shows on the P5 panel.

3) Make sure the lights in the passenger compartment go off.

4) Make sure the exterior lights go off.

(c) Set the switch to the armed mode.

1) Make sure the light stays off.

2) Make sure no lighting indication shows on the P5 panel.

(d) Open this circuit breaker and install safety tag:

**CAPT Electrical System Panel, P18-3**

| Row | Col | Number | Name |
|---|---|---|---|
| A | 11 | C00250 | PASS CABIN LIGHTING EMER CHGR FWD |

1) Make sure the emergency dome light, L00273, comes on.

NOTE: The location of the emergency dome light is in the flight deck.

| DATE | TAIL NUMBER | STATION | AIRLINE CARD NO. | BOEING CARD NO. 33-020-00-01 |
|---|---|---|---|---|

MECH | INSP

(e) Remove the safety tag and close this circuit breaker:

**CAPT Electrical System Panel, P18-3**

| Row | Col | Number | Name |
|---|---|---|---|
| A | 11 | C00250 | PASS CABIN LIGHTING EMER CHGR FWD |

1) Make sure the emergency dome light, L00273, goes off.

NOTE: The location of the emergency dome light is in the flight deck.

(f) Set the switch to the off mode.

**SUBTASK 33-51-00-710-004**

(4) Do a check of the emergency lighting system with the attendant emergency light switch (WDM 33-51-11 thru 33-51-22) .

(a) At the attendant panel, set the attendant emergency light switch to the on mode.

1) Make sure the lights in the passenger compartment come on.

NOTE: This check includes all types of emergency area lights, exit signs, escape hatch handles, and floor proximity lights in the passenger compartment.

2) Make sure the exterior lights come on.

NOTE: This check includes all slide and overwing lights.

3) Make sure the emergency dome light, L00273, comes on.

NOTE: The location of the emergency dome light is in the flight deck.

(b) Set the switch to the off mode.

1) Make sure the lights in the passenger compartment go off.

2) Make sure the exterior lights go off.

3) Make sure the emergency dome light, L00273, goes off.

NOTE: The location of the emergency dome light is in the flight deck.

**SUBTASK 33-51-00-610-003**

(5) Do this task: Power Supply - Charge the Battery Packs, AMM TASK 33-51-06-610-802.

**——— END OF TASK ———**

| AIRLINE CARD NO | | TITLE | | | BOEING CARD NO. |
|---|---|---|---|---|---|
| | | **EMERGENCY BATTERY PACK CAPACITY FUNCTIONAL CHECK** | | | **33-055-00-01** |
| DATE | TASK<br>**FUNCTIONAL** | | | | RELATED CARD |
| TAIL NUMBER | WORK AREA<br>**PASS CABIN** | VERSION<br>**1.1** | THRESHOLD<br>**1 YR** | REPEAT<br>**1 YR** | APPLICABILITY<br>AIRPLANE: **ALL** ENGINE: **ALL** |
| STATION | SKILL<br>**ELEC** | | | | |
| | | ACCESS | | | ZONE<br>**220 230 240** |
| | | | | | |

Functionally check the emergency lights battery packs for capacity (15 min. minimum) and one complete deep cycle.

## A. References

| Reference | Title |
|---|---|
| AMM 24-22-00-860-811 | Supply Electrical Power (P/B 201) |
| AMM 24-22-00-860-812 | Remove Electrical Power (P/B 201) |
| AMM 33-51-06-600-802 | Power Supply - Battery Pack Deep-Cycle Procedure (P/B 201) |
| AMM 33-51-06-960-805 | Power Supply - Battery Pack Replacement (P/B 201) |
| WDM 33-51-12 thru 33-51-21 | Wiring Diagram Manual |

| DATE | TAIL NUMBER | STATION | AIRLINE CARD NO. | BOEING CARD NO. |
|---|---|---|---|---|
| | | | | 33-055-00-01 |

MECH | INSP

**TASK 33-51-06-200-801**

## 1. Power Supply - Battery Pack Capacity Check

### A. General

(1) The capacity check makes sure each battery pack can operate its emergency lights and signs for a minimum of 15 minutes.

### B. Procedure

**SUBTASK 33-51-06-860-014**

(1) Do this task: Supply Electrical Power, AMM TASK 24-22-00-860-811.

**SUBTASK 33-51-06-860-015**

(2) Make sure the battery packs are fully charged.

NOTE: The battery packs in the emergency light power supplies are continuously charged when electrical power is supplied to the airplane, unless the emergency light switches are set to the on mode. If power has been on for 90 minutes and no emergency lights have been tested, the battery packs can be considered fully charged. If the battery packs are fully drained, maximum time necessary to charge them is 90 minutes.

**SUBTASK 33-51-06-210-001**

(3) Do the battery pack capacity check:

(a) At the overhead panel, P5, set the pilots emergency light switch to the on mode.

NOTE: You will note the amount of time the emergency lights stay on for each battery pack.

(b) Leave the switch in the on mode until all emergency lights go off.

(c) Make sure the emergency lights and signs stay on for a minimum of 15 minutes.

1) Identify each battery pack that does not operate its emergency lights and signs for a minimum of 15 minutes.

NOTE: Use the WDM (WDM 33-51-12 thru 33-51-21). It is not necessary to identify individual lights and signs. It is only necessary to identify emergency light power supplies where unsatisfactory battery packs may be installed.

(d) At the P5 panel, set the pilots emergency light switch to the off mode.

(e) Charge the battery packs.

NOTE: The battery packs in the emergency light power supplies are continuously charged when electrical power is supplied to the airplane, unless the emergency light switches are set to the on mode. If the battery packs are fully drained, maximum time necessary to charge them is 90 minutes.

**SUBTASK 33-51-06-860-017**

(4) If there are battery packs that do not operate correctly during the capacity check, then do these steps:

NOTE: The battery packs have been re-charged following the capacity check.

(a) To deep cycle the battery packs, do this task: Power Supply - Battery Pack Deep-Cycle Procedure, AMM TASK 33-51-06-600-802

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|---|---|---|---|---|

| MECH | INSP |
|---|---|

**SUBTASK 33-51-06-810-001**

(5) Retest any battery packs that did not stay on for 15 minutes above.

(a) At the overhead panel, P5, set the pilots emergency light switch to the on mode.

NOTE: You will note the amount of time the emergency lights stay on that had previously failed.

(b) Leave the switch in the on mode for a minimum of 15 minutes.

(c) Make sure the emergency lights stayed on for a minimum of 15 minutes.

**SUBTASK 33-51-06-860-024**

(6) If the battery pack operated correctly during the retest, then put the airplane back to its usual condition:

(a) At the P5 panel, set the pilots emergency light switch to the off mode.

(b) Charge the battery pack.

NOTE: The battery pack in the emergency lights power supply is continuously charged when electrical power is supplied to the airplane, unless the emergency light switches are set to the on mode. If the battery pack is fully drained, maximum time necessary to charge it is 90 minutes.

**SUBTASK 33-51-06-860-025**

(7) If the battery pack did not operate correctly during the retest, then replace it:

(a) Do this task: Power Supply - Battery Pack Replacement, AMM TASK 33-51-06-960-805.

(b) At the P5 panel, set the pilots emergency light switch to the off mode.

(c) Charge the battery pack.

NOTE: The battery pack in the emergency lights power supply is continuously charged when electrical power is supplied to the airplane, unless the emergency light switches are set to the on mode. If the battery pack is fully drained, maximum time necessary to charge it is 90 minutes.

**SUBTASK 33-51-06-860-018**

(8) Do this task: Remove Electrical Power, AMM TASK 24-22-00-860-812.

**——— END OF TASK ———**

| AIRLINE CARD NO | | TITLE | | | BOEING CARD NO. |
|---|---|---|---|---|---|
| | | **EMERGENCY LIGHTING - BATTERY PACK RESTORATION** | | | **33-060-00-01** |
| DATE | TASK<br>**RESTORE** | | | | RELATED CARD |
| TAIL NUMBER | WORK AREA<br>**PASS CABIN** | VERSION<br>**1.1** | THRESHOLD<br>**2 YR** | REPEAT<br>**2 YR** | APPLICABILITY<br>AIRPLANE: **ALL** ENGINE: **ALL** |
| STATION | SKILL<br>**ELEC** | | | | |
| | | ACCESS | | | ZONE<br>**220 230 240** |
| | | | | | |

Restore (two or more complete deep cycles) battery capacity to required standard.

Note: The second deep cycle is accomplished by MPD item 33-055-00.

## A. References

| Reference | Title |
|---|---|
| AMM 24-22-00-860-811 | Supply Electrical Power (P/B 201) |
| AMM 24-22-00-860-812 | Remove Electrical Power (P/B 201) |
| AMM 33-51-06-610-802 | Power Supply - Charge the Battery Packs (P/B 201) |

| DATE | TAIL NUMBER | STATION | AIRLINE CARD NO. | BOEING CARD NO. |
|---|---|---|---|---|
| | | | | 33-060-00-01 |

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**TASK 33-51-06-600-802**

## 1. Power Supply - Battery Pack Deep-Cycle Procedure

### A. General

(1) The deep-cycle procedure removes the electrical power in the battery packs down to the power supply lower level cutoff and then charges them to their capacity.

### B. Procedure

**SUBTASK 33-51-06-860-019**

(1) Do this task: Supply Electrical Power, AMM TASK 24-22-00-860-811.

**SUBTASK 33-51-06-610-004**

(2) Do the battery pack deep-cycle procedure:

(a) At the overhead panel, P5, set the pilots emergency light switch to the on mode.

(b) Keep the switch on until all emergency lights and signs go off.

NOTE: The removal of electrical power from the battery packs can take up to 90 minutes.

(c) After all emergency lights and signs go off, set the switch to the off mode.

(d) Charge the battery packs (Power Supply - Charge the Battery Packs, AMM TASK 33-51-06-610-802).

NOTE: The battery packs in the emergency light power supplies are continuously charged when electrical power is supplied to the airplane, unless the emergency light switches are set to the on mode. If the battery packs are fully drained, maximum time necessary to charge them is 90 minutes.

**SUBTASK 33-51-06-860-020**

(3) Do this task: Remove Electrical Power, AMM TASK 24-22-00-860-812.

I

**——— END OF TASK ———**

| AIRLINE CARD NO | | TITLE | | | BOEING CARD NO. |
|---|---|---|---|---|---|
| | | **PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTING** | | | **33-070-00-01** |
| DATE | TASK<br>**FUNCTIONAL** | | | | RELATED CARD |
| TAIL NUMBER | WORK AREA<br>**PASS CABIN** | VERSION<br>**1.1** | THRESHOLD<br>**3 YR** | REPEAT<br>**3 YR** | APPLICABILITY<br>AIRPLANE: **ALL** |
| STATION | SKILL<br>**ELEC** | **1.2** | **12000 FH** | **12000 FH** | ENGINE: **ALL** |
| | | **NOTE** | | | **NOTE** |
| | | ACCESS | | | ZONE<br>**230 240** |
| | | | | | |

Functional check of the photoluminescent floor proximity lighting.

**INTERVAL NOTE:** Whichever occurs first.

**AIRPLANE NOTE:** If installed.

## A. Consumable Materials

| Reference | Description | Specification |
|---|---|---|
| G00270 | Tape - Scotch Flatback Masking 250 | ASTM D6123 (Supersedes A-A-883) |

## B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

| Reference | Description |
|---|---|
| COM-11030 | Sensor - Illuminance (Photometric)<br>Part #: MODEL 211 Supplier: $1183 |
| COM-11031 | Meter - Light, Handheld (Photometer)<br>Part #: MODEL S471 Supplier: $1183 |

| DATE | TAIL NUMBER | STATION | AIRLINE CARD NO. | BOEING CARD NO. 33-070-00-01 |
|---|---|---|---|---|

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**TASK 33-51-15-860-802**

## 1. Cabin Lighting - Measure the Available Light Intensity

(Figure 1)

### A. General

(1) The photoluminescent floor proximity strips are energized when light is present. This procedure measures the amount of light available to provide the charge for those strips.

(2) Depending on the type of light-meter selected, these conversion factors will allow readings in Foot-Candles (Fc) or Lux to be used:

(a) Fc x 10.764 = Lux

(b) Lux x 0.0929 = Fc

### B. Procedure

**SUBTASK 33-51-15-860-004**

(1) Prepare to measure the cabin light intensity:

(a) Move the airplane out of direct sunlight or daylight conditions.

NOTE: You can move the airplane inside a hanger or take the readings at night.

(b) Assure that the airplane interior is in fully operational passenger provisions configuration.

NOTE: Provisions to include all seats, bins, galleys, lavs, etc. installed for normal use.

(c) Do these steps to mark light intensity measurement points on the aisleway carpet:

NOTE: See (Figure 1).

1) Place a piece of Scotch Flatback Masking Tape 250, G00270, centered between the photoluminescent strips, on the aisleway carpet at the centerline of the forward cabin door.

**AKS ALL**

2) Use a ruler or measuring tape to measure 40 inches aft of that piece and put another piece of tape on the carpet.

3) In like fashion, place pieces of tape every 40 inches throughout the rest of the length of the cabin, all the way back to, and including, the centerline of the most aft passenger door.

**AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS**

(d) Make several copies of (Figure 2) to use for recording data at each measurement point.

**AKS ALL**

(e) Set the lights for the cabin light level test:

1) At the applicable attendant control panel, set the Passenger Seating Area to the White Bright scene.

2) Set all reading lights to the off mode.

3) Close all window shades, lavatory doors, cabin egress doors, and all overhead bin doors.

**AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS**

(f) Maintain the above conditions for 30 minutes minimum to stabilize the light source.

**SUBTASK 33-51-15-860-005**

**AKS ALL**

(2) Do these steps to measure the light intensity throughout the passenger cabin (Figure 1):

NOTE: One person should perform the tests while another person records the data.

(a) Do these steps to set up the light meter and sensor such as, handheld light meter, COM-11031 and illuminance photometric sensor, COM-11030 or equivalent:

1) Connect the cable from the handheld light meter, COM-11031 to illuminance photometric sensor, COM-11030.

2) Turn the handheld light meter, COM-11031 on.

3) Set the handheld light meter, COM-11031 to read in the 0 to 200 Lux range (or approximately 0 to 20 Fc), daylight mode (if applicable), and zero it or initialize it if necessary.

(b) Do these steps to measure the light intensity:

1) Place the illuminance photometric sensor, COM-11030 on the light strip on one side of the aisle at the point to be measured.

NOTE: The sensor points up toward the cabin ceiling.

2) Make sure no object is in the path of the light to the illuminance photometric sensor, COM-11030.

3) Record the measurement point number and the light level value on the data sheet, (Figure 2).

4) Move the illuminance photometric sensor, COM-11030 onto the strip on the other side of the aisle and measure and record the light level value on the data sheet for that side of the aisle.

(c) Do the above steps for other points along the cabin floor.

**AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS**

**SUBTASK 33-51-15-970-001**

(3) Calculate the average light level in the passenger cabin:

(a) Add all the recorded readings from all data sheets for values measured on each side of the aisle and record those totals on the last sheet.

NOTE: You will have two totals, one for the right side and one for the left side.

(b) Divide each total by the number of readings taken for that side.

**AKS ALL**

(c) Make sure that the average value for each side is 30 Lux (2.787 Fc) minimum.

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|---|---|---|---|---|

AKS ALL (Continued) | MECH | INSP

1) If you do not get 30 Lux (2.787 Fc) minimum, clean the light lens or replace the applicable light assembly.

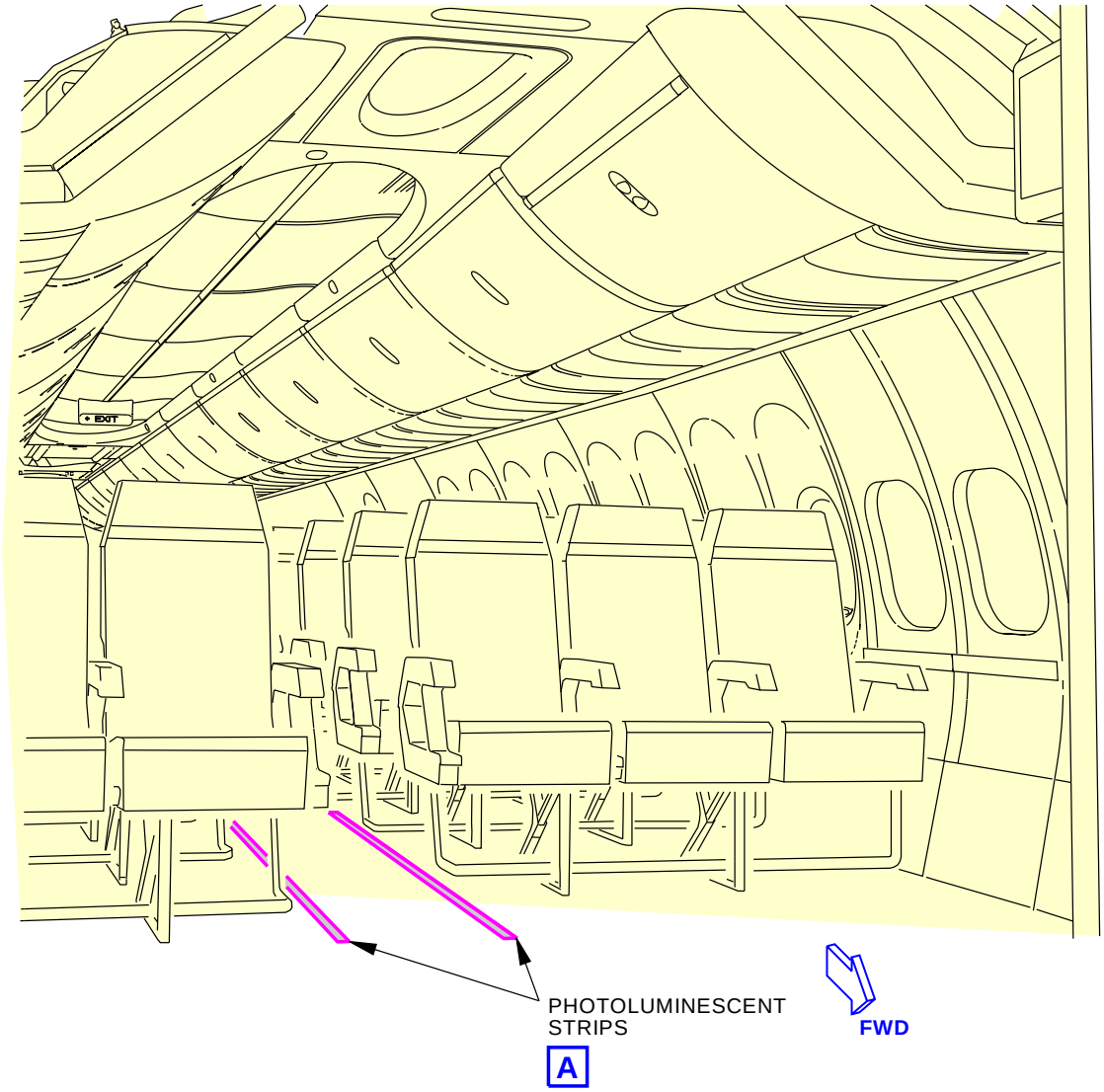
**AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS**

**SUBTASK 33-51-15-940-001**

(4) Return the airplane to it's usual condition.

**——— END OF TASK ———**

| DATE | TAIL NUMBER | STATION | AIRLINE CARD NO. | BOEING CARD NO. |
|---|---|---|---|---|
| | | | | 33-070-00-01 |

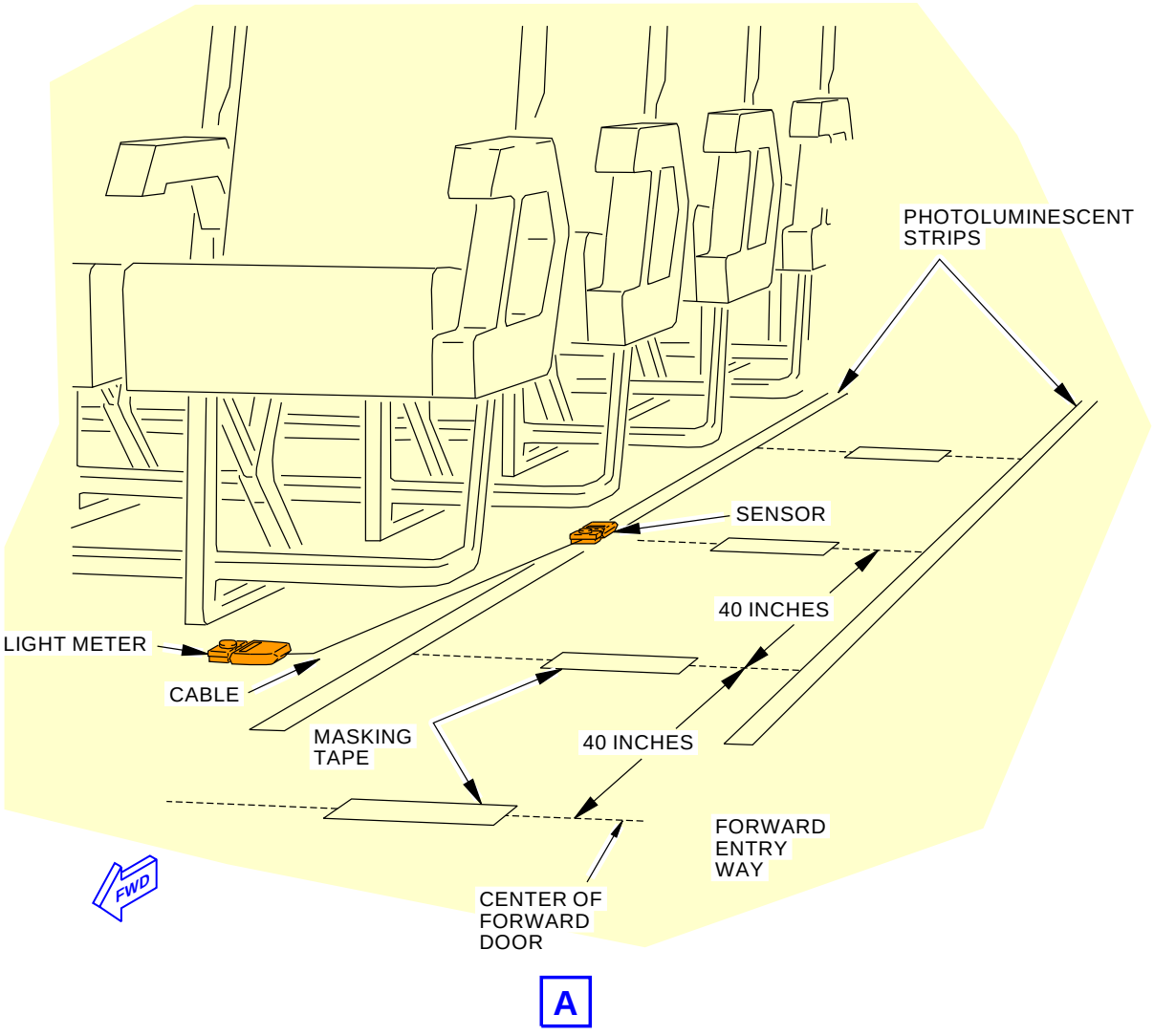



**PASSENGER COMPARTMENT**
**(EXAMPLE)**

2207793 S0000492775_V2

**Floor Proximity Lights - Cabin Light Intensity Test**
**Figure 1 (Sheet 1 of 2)**

| DATE | TAIL NUMBER | STATION | AIRLINE CARD NO. | BOEING CARD NO. |
|---|---|---|---|---|
| | | | | 33-070-00-01 |




1 SENSOR POINTS UP TO CABIN CEILING.

M24257 S0006576446_V5

**Floor Proximity Lights - Cabin Light Intensity Test**
**Figure 1 (Sheet 2 of 2)**

| DATE | TAIL NUMBER | STATION | AIRLINE CARD NO. | BOEING CARD NO. |
|---|---|---|---|---|
| | | | | 33-070-00-01 |

| MEASUREMENT POINT | MEASURED LIGHT (LUX) | |
|---|---|---|
| | LEFT SIDE | RIGHT SIDE |
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**DATA SHEET**

M24270 S0006576447_V2

**Floor Proximity Lights - Cabin Light Intensity Test Light Meter Readings**
**Figure 2**

| AIRLINE CARD NO | | TITLE | | | BOEING CARD NO. |
|---|---|---|---|---|---|
| | | **REPLACE PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTING** | | | **33-080-00-01** |
| DATE | TASK<br>**REPLACE** | | | | RELATED CARD |
| TAIL NUMBER | WORK AREA<br>**PASS CABIN** | VERSION<br>**1.1** | THRESHOLD<br>**10 YR** | REPEAT<br>**10 YR** | APPLICABILITY<br>AIRPLANE: **ALL NOTE**<br>ENGINE: **ALL** |
| STATION | SKILL<br>**ELEC** | | | | |
| | | ACCESS | | | ZONE<br>**230 240** |
| | | | | | |

Replace photoluminescent floor proximity lighting at manufacturer's life limit.

**AIRPLANE NOTE:** If installed.

**A. References**

| Reference | Title |
|---|---|
| AMM 20-30-92-910-801 | Final Cleaning Prior to General Sealing (Series 92) (P/B 201) |
| AMM 51-31-00-160-801 | Prepare For Sealing (P/B 201) |

**B. Consumable Materials**

| Reference | Description | Specification |
|---|---|---|
| A00635 | Adhesive - RTV 108 Translucent Silicone Rubber RTV Paste, One-part | MIL-A-46106 |
| A50038 | Adhesive - Fast-setting, 2 Part Epoxy, Medium Viscosity | BMS5-123 Type I Class 2 Clear |
| B00083 | Solvent - VM&P Naphthas | ASTM D-3735 Type III |
| G00034 | Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze) | BMS15-5 Class A |
| G02129 | Tape - 223S (use until stock depleted) | |
| G50156 | Tape - Carpet, Double-sided, 16 oz/sq. yd., Black. Storage Life 18 Months. | BMS5-133 Type II Class 2 |

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MECH | INSP

**TASK 33-51-15-960-801**

## 1. Floor Proximity Light - Photoluminescent Strip Replacement

(Figure 1)

### A. General

(1) Use this procedure to replace sections or complete lengths of the photoluminescent strips.

(a) Replacement strip sections must be a minimum of 18.0 in. (457.2 mm) long.

(b) Overwing exit aisle strips must be replaced as one piece.

### B. Procedure

**SUBTASK 33-51-15-960-001**

(1) Do these steps to replace the photoluminescent strip:

(a) Use a smooth tool to separate the tape holding the light strip onto the floor panels.

(b) Remove the used tape that held the strip onto the floor panels.

(c) Use a cotton wiper, G00034 dampened with solvent, B00083 Final Cleaning Prior to General Sealing (Series 92), AMM TASK 20-30-92-910-801, to clean the floor panel.

(d) FOR STANDARD PHOTOLUMINESCENT STRIP;

If necessary, trim the new strip to fit.

NOTE: If this is a strip or portion of strip, to be mounted between existing strips, you will want to leave room to seal the exposed ends of the new strip and still maintain the appropriate gap between each end of the existing strips.

1) Do this task: Prepare For Sealing, AMM TASK 51-31-00-160-801.

**CAUTION:** SEALANT MUST NOT EXTEND OVER PERIPHERY OF PHOTOLUMINESCENT STRIP

2) Carefully seal the exposed end of all strips with small beads of adhesive, A50038.

(e) FOR COLORED PHOTOLUMINESCENT STRIP;

Do these steps to prepare the new colored photoluminescent strip for installation:

NOTE: If this is a strip or a portion of strip to be mounted between existing strips, you will want to leave room to seal the exposed ends of the new strip and still maintain the appropriate gap between each end of the existing strips.

NOTE: A typical colored photoluminescent strip has a cover sleeve, a color filter, a photoluminescent insert, and two end caps.

1) Remove the end caps from each end of the strip sleeve.

2) If necessary, trim the new colored photoluminescent strip to fit.

a) Remove the color filter and photoluminescent insert in the cover sleeve.

b) Cut the cover sleeve to the applicable length.

c) Cut the color filter and photoluminescent insert to 0.039 in. (1.0 mm) - 0.079 in. (2.0 mm) shorter than the length of the cover sleeve.

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d) Clean the cover sleeve, color filter and photoluminescent insert from dust and unwanted material.

e) Put the color filter and photoluminescent insert into the cover sleeve.

3) Do these steps to install the end caps:

a) Do this task: Prepare For Sealing, AMM TASK 51-31-00-160-801.

b) Apply small beads of RTV 108 adhesive, A00635 to each end of the cover sleeve.

c) Install the end caps to each end of the cover sleeve.

d) Remove excess RTV 108 adhesive, A00635 from the colored photoluminescent strip.

(f) FOR ENCAPSULATED PHOTOLUMINESCENT STRIP;

1) If necessary, trim the new strip to fit.

NOTE: If this is a strip or portion of strip, to be mounted between existing strips, you will want to leave room to seal the exposed ends of the new strip and still maintain the appropriate gap between each end of the existing strips.

a) Cut the photoluminescent insert so it is flush or slightly shorter than the length of the cover sleeve.

b) Do this task: Prepare For Sealing, AMM TASK 51-31-00-160-801.

c) Clean the trimmed ends of the strip to remove dust, unwanted material and loose shavings.

d) Apply small beads (minimum 0.063 in. (1.600 mm) in diameter) of RTV 108 adhesive, A00635 to the trimmed ends of the strip.

<1> Smooth the sealant and allow to dry.

e) Remove excess RTV 108 adhesive, A00635 from the edges of the strip with a clean cloth.

(g) Use a cotton wiper, G00034 dampened with solvent, B00083 to clean the new light strip (AMM TASK 20-30-92-910-801).

(h) Apply new tape, G50156, to the floor panel.

(i) Using the new piece(s) of photoluminescent strip as a guide, mark the tape, G50156 where the ends of the strip will be located.

**AKS ALL**

(j) Place small lateral strips of 3/4-inch wide Nitto 223S Tape, G02129 on top of the tape, G50156 so that none of that tape or any floor panel is visible between the strips.

**AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS**

(k) Place the strip in its location, maintaining the gap indicated below between the new strip and existing strips:

1) At the expansion joint, STA 520, maintain a 0.30 in. (7.62 mm) gap between the new strip and the adjoining strip.

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|---|---|

2) At all other locations, maintain a 0.10 in. (2.54 mm) gap between the new strip and existing strips.

(l) Press the strip down firmly along it's length to attach it in place.

——— END OF TASK ———

| DATE | TAIL NUMBER | STATION | AIRLINE CARD NO. | BOEING CARD NO. |
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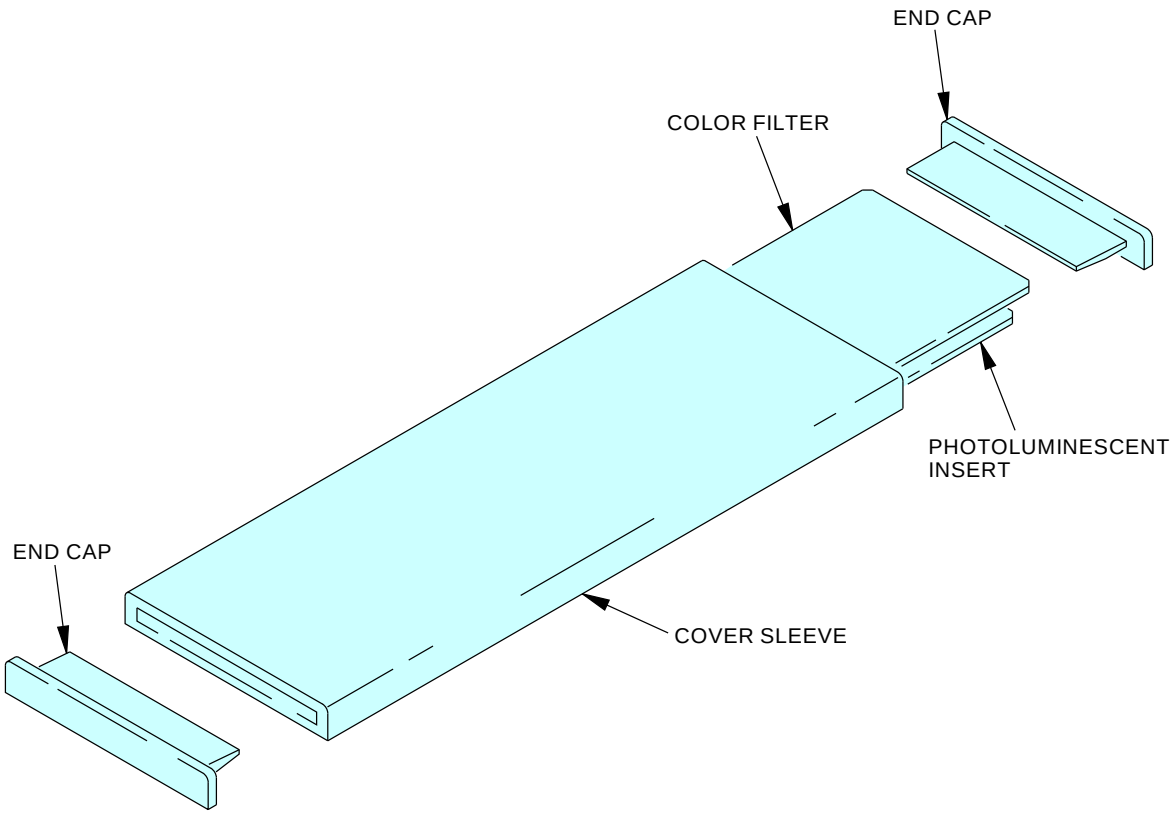
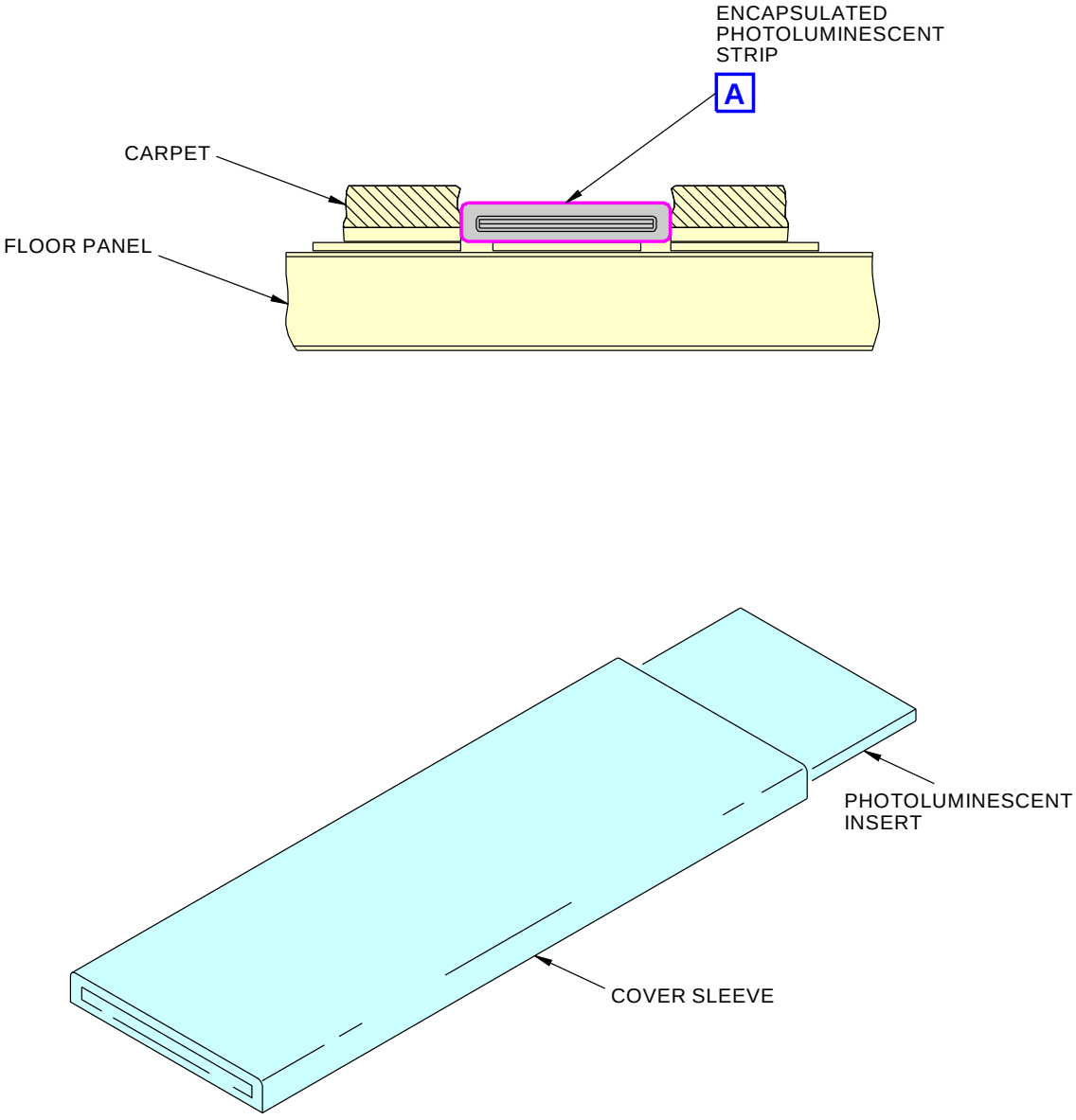



**COLOR PHOTOLUMINESCENT STRIP
(TYPICAL)**

2230243 S0000497183_V2

**Floor Proximity Light - Photoluminescent Strip Replacement
Figure 1 (Sheet 1 of 2)**

| DATE | TAIL NUMBER | STATION | AIRLINE CARD NO. | BOEING CARD NO. |
|---|---|---|---|---|
| | | | | 33-080-00-01 |




**ENCAPSULATED PHOTOLUMINESCENT STRIP (TYPICAL)**

**A**

2421479 S0000559674_V1

**Floor Proximity Light - Photoluminescent Strip Replacement**
**Figure 1 (Sheet 2 of 2)**

| AIRLINE CARD NO | | TITLE | | | BOEING CARD NO. |
|---|---|---|---|---|---|
| | | **WINGLET LEADING EDGE LENS** | | | **33-090-00-01** |
| DATE | TASK | | | | RELATED CARD |
| | **INSPECTION - GEN VISUAL** | | | | |
| TAIL NUMBER | WORK AREA | VERSION | THRESHOLD | REPEAT | APPLICABILITY |
| | **AIRPLANE** | **1.1** | **6 MO** | **6 MO** | AIRPLANE: **ALL** ENGINE: **ALL** |
| STATION | SKILL | | | | **NOTE** |
| | **AIRPL** | | | | |
| | | ACCESS | | | ZONE |
| | | | | | **527 627** |
| | | | | | |

Perform a general visual inspection of the forward position light lens on the winglet.

Note: This task satisfies the requirement of the Airplane Partners Boeing (APB) task 33-W01-00.

**AIRPLANE NOTE:** Single lens configuration only.

## A. References

| Reference | Title |
|---|---|
| AMM 57-21-22-000-802 | Forward Position Light and Anti-Collision Light Lens (Single Forward Lens) Removal (P/B 201) |
| AMM 57-21-22-400-803 | Forward Position Light and Anti-Collision Light Lens (Single Forward Lens) Installation (P/B 201) |

| DATE | TAIL NUMBER | STATION | AIRLINE CARD NO. | BOEING CARD NO. |
|---|---|---|---|---|
| | | | | 33-090-00-01 |

| MECH | INSP |
|---|---|
| | |

**TASK 57-21-22-200-801**

## 1. Forward Position Light and Anti-Collision Light Lens (Single Lens) Inspection

### A. General

(1) This procedure gives the task to do a visual inspection of the exterior surface of the single lens on the left or right winglet.

### B. Procedure

**SUBTASK 57-21-22-212-001**

(1) Do a visual inspection of the exterior surface of the lens on the left or right winglet; look for these conditions.

(a) Crazing

1) The lens must not have a network of fine cracks on or under the surface of the lens.

(b) Cracks

1) The lens must not have any cracks.

(c) Blisters or Bubbles

1) The lens must not contain any air pockets, lumps or voids.

NOTE: Small bubbles in the lens or the coating that do not appear in large quantities or concentrations are allowed.

(d) Discoloration

1) The lens must not have any signs of yellow color or a change to a dark color.

(e) Physical Deformation

1) The lens must not show signs of distortion or the contour of the lens must not show signs of irregularities.

(f) Hazing

1) A hazed lens is an allowable condition; the replacement of the hazed lens for appearance purposes is optional.

2) The hazed lens is not transparent and clear in appearance; the lens can be cloudy, translucent or opaque.

NOTE: Lens hazing is caused by rain erosion and/or normal airstream abrasions.

(g) If the other lens has not been inspected, repeat this task for the other lens.

(h) If both lenses have been inspected, this task is complete.

**SUBTASK 57-21-22-960-001**

(2) If any of these conditions are seen, replace the lens.

(a) Do this task: Forward Position Light and Anti-Collision Light Lens (Single Forward Lens) Removal, AMM TASK 57-21-22-000-802.

(b) Do this task: Forward Position Light and Anti-Collision Light Lens (Single Forward Lens) Installation, AMM TASK 57-21-22-400-803.

**——— END OF TASK ———**

| AIRLINE CARD NO | | TITLE | | | BOEING CARD NO. |
|---|---|---|---|---|---|
| | | **WINGLET LEADING EDGE LENS** | | | **33-090-01-01** |
| DATE | TASK | | | | RELATED CARD |
| | **INSPECTION - GEN VISUAL** | | | | |
| TAIL NUMBER | WORK AREA | VERSION | THRESHOLD | REPEAT | APPLICABILITY |
| | **AIRPLANE** | **1.1** | **24 MO** | **24 MO** | AIRPLANE: **ALL** ENGINE: **ALL** |
| STATION | SKILL | | | | **NOTE** |
| | **AIRPL** | | | | |
| | | ACCESS | | | ZONE |
| | | | | | **527 627** |
| | | | | | |

Perform a general visual inspection of the forward position light lens on the winglet - Dual Lens Configuration (Glass).

Note: This task satisfies the requirement of the Airplane Partners Boeing (APB) task 33-W02-00.

**AIRPLANE NOTE:** Dual Lens Configuration (Glass).

## A. References

| Reference | Title |
|---|---|
| AMM 57-21-22-000-803 | Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Removal (P/B 201) |
| AMM 57-21-22-400-804 | Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Installation (P/B 201) |

| DATE | TAIL NUMBER | STATION | AIRLINE CARD NO. | BOEING CARD NO. |
|---|---|---|---|---|
| | | | | 33-090-01-01 |

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**TASK 57-21-22-200-802**

## 1. Forward Position Light and Anti-Collision Light Lens (Dual Lens) Inspection

### A. General

(1) This procedure gives the task to do a visual inspection of the exterior surface of the dual lens on the left or right winglet.

### B. Procedure

**SUBTASK 57-21-22-212-002**

(1) Do a visual inspection of the exterior surface of the lens on the left or right winglet; look for these conditions.

(a) Disbonding

1) No disbonding between the lens and the lens retainer are allowed.

(b) Cracks

1) The lens must not have any cracks.

(c) If the other lens has not been inspected, repeat this task for the other lens.

(d) If both lenses have been inspected, this task is complete.

**SUBTASK 57-21-22-960-002**

(2) If any of these conditions are seen, replace the lens.

(a) Do this task: Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Removal, AMM TASK 57-21-22-000-803

(b) Do this task: Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Installation, AMM TASK 57-21-22-400-804

**——— END OF TASK ———**