

CHAPTER

33

LIGHTS



737-600/700/800/900
FAULT ISOLATION MANUAL

CHAPTER 33
LIGHTS

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A = Added, R = Revised, D = Deleted, O = Overflow, C = Customer Originated

33-EFFECTIVE PAGES

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YOU FIND A FAULT WITH
AN AIRPLANE SYSTEM

These are the possible types
of faults:

1. Observed Fault
2. Cabin Fault



USE BITE TO GET
MORE INFORMATION

If you did a BITE test already,
then you can go directly to the
fault isolation procedure for
the maintenance message.

For details, see Figure 2 →



GO TO THE
FAULT ISOLATION
TASK IN THE FIM

Use the fault code or description
to find the task in the FIM. There
is a numerical list of fault codes
in each chapter. There are lists
of fault descriptions at the front
of the FIM.

For details, see Figure 3 →



FOLLOW THE STEPS OF THE
FAULT ISOLATION TASK

The fault isolation task explains
how to find the cause of the fault.
When the task says "You corrected
the fault" you know that the fault
is gone.

For details, see Figure 4 →

Basic Fault Isolation Process
Figure 1

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33-HOW TO USE THE FIM

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Some airplane systems have built-in test equipment (BITE). IF the system finds a fault when you do a BITE test, it will give you a maintenance message.

A maintenance message can be any of these:

- a code
- a text message
- a light
- an indication.

To find the fault isolation task for a maintenance message, go to the Maintenance Message Index in the chapter for the applicable system.

If you do not know which chapter is the correct one, look at the list at the front of any Maintenance Message Index. For each system or component (LRU) that has BITE, this list gives the chapter number where you can find the Index that you need.

Find the maintenance message for the applicable LRU or system in the Index. Then find the task number on the same line as the maintenance message. Go to the task in the FIM and do the steps of the task (see Figure 4).

Getting Fault Information from BITE
Figure 2

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IF YOU HAVE:

THEN DO THIS TO FIND THE TASK IN THE FIM:

FAULT CODE

1. The first two digits of the fault code are the FIM chapter that you need. Go to the Fault Code Index in that chapter and find the fault code. If the fault code starts with a letter, then go to the Cabin Fault Code Index at the front of the FIM.
2. Find the task number on the same line as the fault code. Go to the task in the FIM and do the steps in the task (see Figure 4).

OBSERVED FAULT DESCRIPTION

1. Go to the Observed Fault List at the front of the FIM and find the best description for the fault.
2. Find the task number on the same line as the fault description. Go to the task in the FIM and do the steps of the task (see Figure 4).

CABIN FAULT DESCRIPTION

1. Go to the Cabin Fault List at the front of the FIM and find the best description for the fault.
2. Find the task number on the same line as the fault description. Go to the task in the FIM and do the steps of the task (see Figure 4).

MAINTENANCE MESSAGE (FROM BITE)

1. Go to the Maintenance Message Index in the chapter for the LRU (the front of each Index gives you the chapter number for all LRUs). Find the maintenance message in the Index.
2. Find the task number on the same line as the maintenance message. Go to the task in the FIM and do the steps in the task (see Figure 4).

Finding the Fault Isolation Task in the FIM
Figure 3

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ASSUMED CONDITIONS AT START OF TASK

- External electrical power is ON
- Hydraulic power and pneumatic power are OFF
- Engines are shut down
- No equipment in the system is deactivated

POSSIBLE CAUSES

- The list of possible causes has the most likely cause first and the least likely cause last.
- You can use the maintenance records of your airline to determine if the fault occurred before. Compare the list of possible causes to the past maintenance actions. This will help prevent repetition of the same maintenance actions.

INITIAL EVALUATION PARAGRAPH

- The primary purpose of the Initial Evaluation paragraph at the start of the task is to help you find out if you can detect the fault right now:
 - If you cannot detect the fault right now, then the task cannot isolate the fault and the Initial Evaluation paragraph will say that there was an intermittent fault.
 - If you have an intermittent fault, you must use your judgement (and follow your airline's policy) to decide which maintenance action to take. Then monitor the airplane to see if the fault happens again on subsequent flights.
- The Initial Evaluation paragraph can also help you find out which Fault Isolation Procedure to use to isolate and correct the fault.

FAULT ISOLATION STEPS

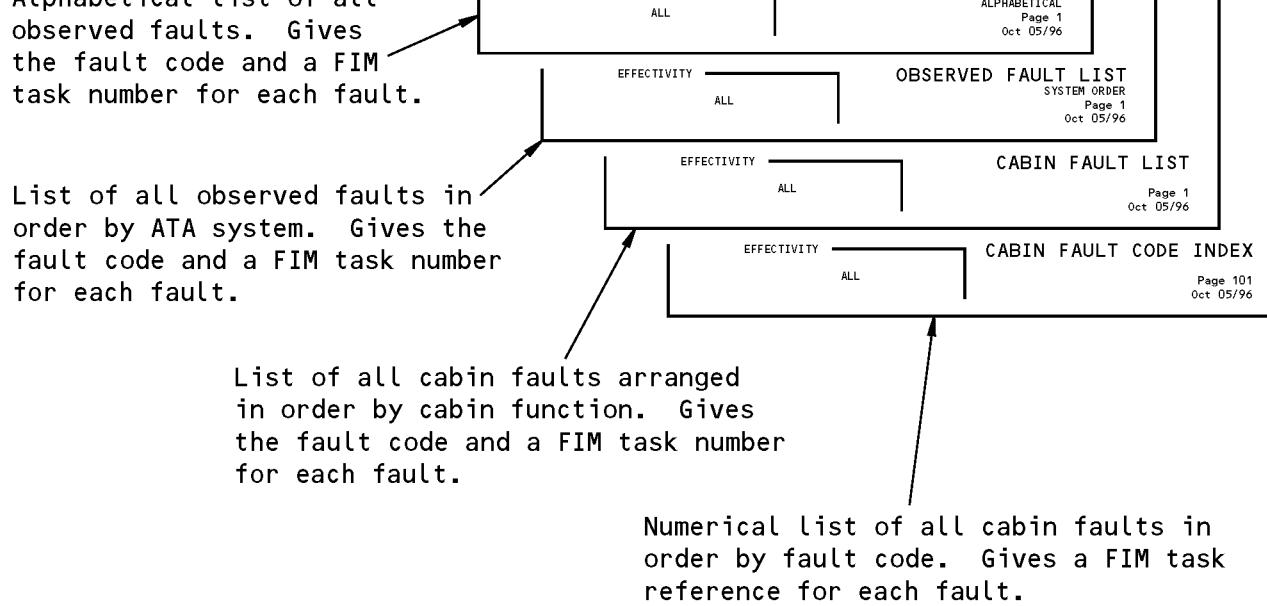
- Do the steps of the task in the specified order. The "If ... then" statements that you see will guide you along the correct path.
- When you are at the endpoint of the path, the step says "...you corrected the fault." Complete the step and exit the procedure.

Doing the Fault Isolation Task
Figure 4

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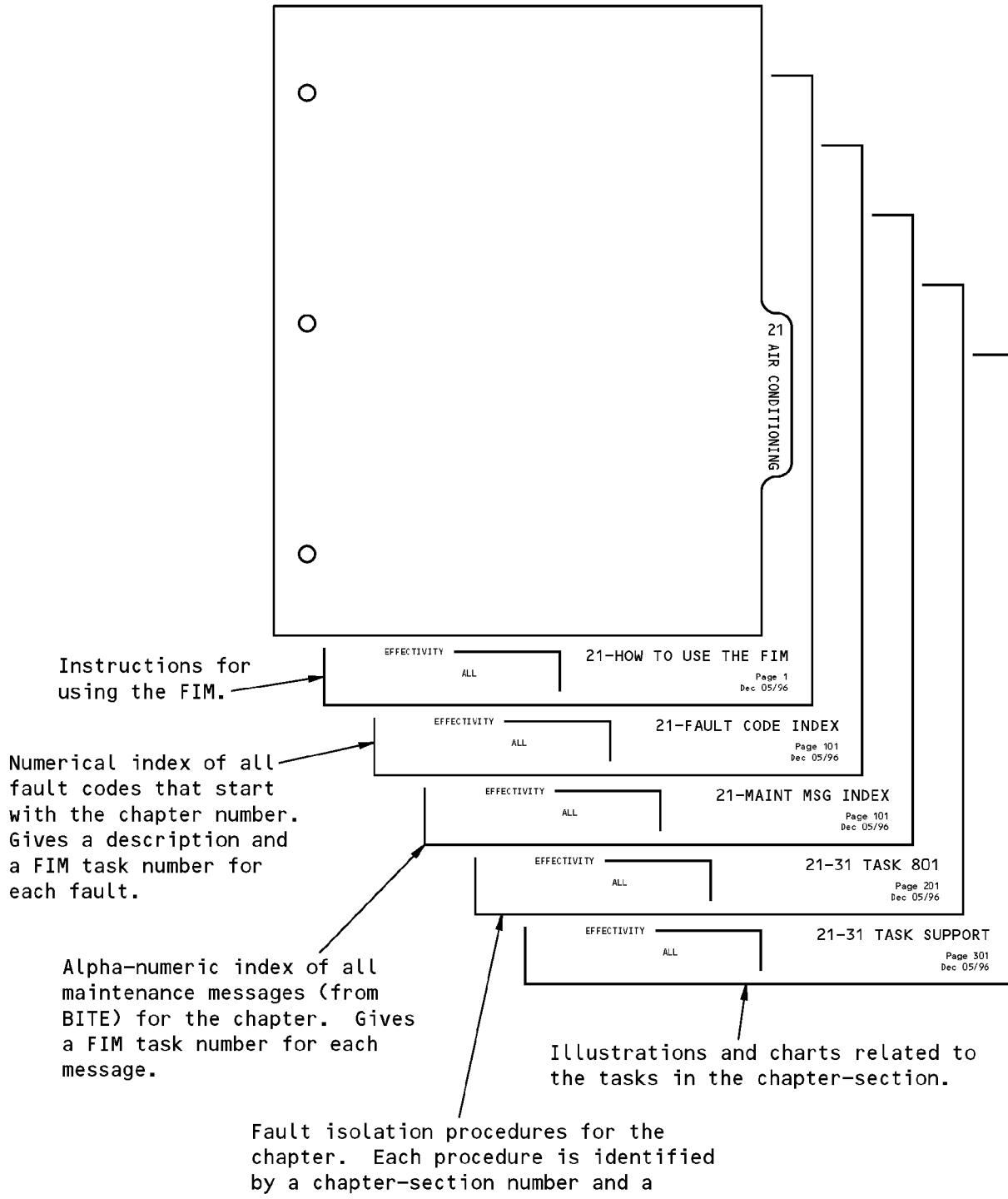
Subjects at Front of FIM
 Figure 5



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Subjects in Each FIM Chapter
 Figure 6



33-HOW TO USE THE FIM



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FAULT CODE	FAULT DESCRIPTION	GO TO FIM TASK
331 010 00	Indicator light: does not come on correctly.	33-10 TASK 801
331 011 00	Indicator light: does not go off.	33-10 TASK 801
331 020 00	Lighted pushbutton switch: does not come on correctly.	33-10 TASK 801
331 021 00	Lighted pushbutton switch: does not go off.	33-10 TASK 801
331 030 00	Lightplate: does not come on.	33-10 TASK 801
331 031 00	Lightplate: does not go off.	33-10 TASK 801
331 040 00	Circuit breaker panel light: does not come on.	33-10 TASK 801
331 041 00	Circuit breaker panel light: does not go off.	33-10 TASK 801
331 050 00	Dome light: does not come on correctly.	33-10 TASK 801
331 051 00	Dome light: does not go off.	33-10 TASK 801
331 060 00	LCD segment: does not operate correctly.	33-10 TASK 801
331 070 00	Glareshield (AFCS) Floodlight: does not come on correctly.	33-10 TASK 801
331 071 00	Glareshield (AFCS) Floodlight: does not go off.	33-10 TASK 801
331 080 31	Panel floodlight: does not come on correctly - captain's.	33-10 TASK 801
331 080 32	Panel floodlight: does not come on correctly - first officer's.	33-10 TASK 801
331 080 43	Panel floodlight: does not come on correctly - center.	33-10 TASK 801
331 081 31	Panel floodlight: does not go off - captain's.	33-10 TASK 801
331 081 32	Panel floodlight: does not go off - first officer's.	33-10 TASK 801
331 081 43	Panel floodlight: does not go off - center.	33-10 TASK 801
331 090 00	Control stand floodlight: does not come on correctly.	33-10 TASK 801
331 091 00	Control stand floodlight: does not go off.	33-10 TASK 801
331 100 00	Standby compass light: does not come on.	34-23 TASK 802
331 101 00	Standby compass light: does not go off.	34-23 TASK 802
331 110 31	Flight kit light: does not come on correctly - captain's.	33-10 TASK 801
331 110 32	Flight kit light: does not come on correctly - first officer's.	33-10 TASK 801
331 111 31	Flight kit light: does not go off - captain's.	33-10 TASK 801
331 111 32	Flight kit light: does not go off - first officer's.	33-10 TASK 801
331 120 31	Map light: does not come on correctly - captain's.	33-10 TASK 801
331 120 32	Map light: does not come on correctly - first officer's.	33-10 TASK 801
331 121 31	Map light: does not go off - captain's.	33-10 TASK 801
331 121 32	Map light: does not go off - first officer's.	33-10 TASK 801
331 130 00	Reading light, observer's: does not come on correctly.	33-10 TASK 801



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FAULT CODE	FAULT DESCRIPTION	GO TO FIM TASK
331 131 00	Reading light, observer's: does not go off.	33-10 TASK 801
331 140 00	Oxygen mask floodlight: does not come on.	33-10 TASK 801
331 150 31	Chart light: does not come on correctly - captain's.	33-10 TASK 801
331 150 32	Chart light: does not come on correctly - first officer's.	33-10 TASK 801
331 151 31	Chart light: does not go off - captain's.	33-10 TASK 801
331 151 32	Chart light: does not go off - first officer's.	33-10 TASK 801
331 160 00	Master dim and test system: does not operate correctly.	33-10 TASK 801
333 010 00	Wheel well light: does not come on - main landing gear.	33-30 TASK 801
333 011 00	Wheel well light: does not go off - main landing gear.	33-30 TASK 801
333 020 00	Wheel well light: does not come on - nose landing gear.	33-30 TASK 801
333 021 00	Wheel well light: does not go off - nose landing gear.	33-30 TASK 801
333 030 41	Air conditioning compartment light: does not come on - left.	33-30 TASK 801
333 030 42	Air conditioning compartment light: does not come on - right.	33-30 TASK 801
333 031 41	Air conditioning compartment light: does not go off - left.	33-30 TASK 801
333 031 42	Air conditioning compartment light: does not go off - right.	33-30 TASK 801
333 040 00	Electronic equipment compartment light: does not come on.	33-30 TASK 801
333 041 00	Electronic equipment compartment light: does not go off.	33-30 TASK 801
333 050 00	Accessory compartment light: does not come on.	33-30 TASK 801
333 051 00	Accessory compartment light: does not go off.	33-30 TASK 801
333 060 00	APU service light: does not come on.	33-30 TASK 801
333 061 00	APU service light: does not go off.	33-30 TASK 801
333 070 00	Tailcone light: does not come on.	33-30 TASK 801
333 071 00	Tailcone light: does not go off.	33-30 TASK 801
333 080 44	Cargo compartment light: does not come on - forward.	33-30 TASK 801
333 080 45	Cargo compartment light: does not come on - aft.	33-30 TASK 801
333 081 44	Cargo compartment light: does not go off - forward.	33-30 TASK 801
333 081 45	Cargo compartment light: does not go off - aft.	33-30 TASK 801
334 010 41	Wing illumination light: does not come on - left.	33-40 TASK 801
334 010 42	Wing illumination light: does not come on - right.	33-40 TASK 801
334 020 41	Wing illumination light: does not go off - left.	33-40 TASK 801
334 020 42	Wing illumination light: does not go off - right.	33-40 TASK 801
334 030 41	Landing light: does not come on - left fixed.	33-40 TASK 801

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FAULT CODE	FAULT DESCRIPTION	GO TO FIM TASK
334 030 42	Landing light: does not come on - right fixed.	33-40 TASK 801
334 040 41	Landing light: does not come on - left retractable.	33-40 TASK 801
334 040 42	Landing light: does not come on - right retractable.	33-40 TASK 801
334 060 41	Landing light: does not extend - left retractable.	33-40 TASK 801
334 060 42	Landing light: does not extend - right retractable.	33-40 TASK 801
334 070 41	Landing light: does not go off - left fixed.	33-40 TASK 801
334 070 42	Landing light: does not go off - right fixed.	33-40 TASK 801
334 080 41	Landing light: does not go off - left retractable.	33-40 TASK 801
334 080 42	Landing light: does not go off - right retractable.	33-40 TASK 801
334 100 41	Landing light: does not retract - left retractable.	33-40 TASK 801
334 100 42	Landing light: does not retract - right retractable.	33-40 TASK 801
334 110 41	Position (NAV) light: does not come on - left wing forward.	33-40 TASK 801
334 120 41	Position (NAV) light: does not come on - left wing aft.	33-40 TASK 801
334 120 42	Position (NAV) light: does not come on - right wing aft.	33-40 TASK 801
334 130 42	Position (NAV) light: does not come on - right wing forward.	33-40 TASK 801
334 190 41	Position (NAV) light: does not go off - left wing forward.	33-40 TASK 801
334 200 41	Position (NAV) light: does not go off - left wing aft.	33-40 TASK 801
334 200 42	Position (NAV) light: does not go off - right wing aft.	33-40 TASK 801
334 210 42	Position (NAV) light: does not go off - right wing forward.	33-40 TASK 801
334 230 41	Anti-collision light: does not come on correctly - left wing.	33-44 TASK 801
334 230 42	Anti-collision light: does not come on correctly - right wing.	33-44 TASK 801
334 240 00	Anti-collision light: does not come on correctly - tail.	33-44 TASK 801
334 250 41	Anti-collision (strobe) light: does not go off - left wing.	33-44 TASK 801
334 250 42	Anti-collision (strobe) light: does not go off - right wing.	33-44 TASK 801
334 260 00	Anti-collision (strobe) light: does not go off - tail.	33-44 TASK 801
334 270 46	Anti-collision light: does not come on correctly - upper.	33-44 TASK 801
334 270 47	Anti-collision light: does not come on correctly - lower.	33-44 TASK 801
334 280 46	Anti-collision light: does not go off - upper.	33-44 TASK 801
334 280 47	Anti-collision light: does not go off - lower.	33-44 TASK 801
334 290 00	Airstair tread light: does not come on.	33-40 TASK 801
334 291 00	Airstair tread light: does not go off.	33-40 TASK 801
334 300 41	Runway turnoff light: does not come on - left.	33-40 TASK 801



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FAULT CODE	FAULT DESCRIPTION	GO TO FIM TASK
334 300 42	Runway turnoff light: does not come on - right.	33-40 TASK 801
334 310 41	Runway turnoff light: does not go off - left.	33-40 TASK 801
334 310 42	Runway turnoff light: does not go off - right.	33-40 TASK 801
334 320 00	Taxi light: does not come on.	33-40 TASK 801
334 330 00	Taxi light: does not go off.	33-40 TASK 801
334 340 41	Logo light: does not come on - left.	33-40 TASK 801
334 340 42	Logo light: does not come on - right.	33-40 TASK 801
334 350 41	Logo light: does not go off - left.	33-40 TASK 801
334 350 42	Logo light: does not go off - right.	33-40 TASK 801
335 010 41	Emergency slide/overwing light: does not go off - left.	33-50 TASK 801
335 010 42	Emergency slide/overwing light: does not go off - right.	33-50 TASK 801
335 020 41	Emergency slide/overwing light: does not come on - left.	33-50 TASK 801
335 020 42	Emergency slide/overwing light: does not come on - right.	33-50 TASK 801





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801. Flight Compartment Lighting Problem - Fault Isolation

A. Description

- (1) (SDS SUBJECT 33-11-00)
- (2) (SDS SUBJECT 33-14-00)
- (3) (SDS SUBJECT 33-17-00)
- (4) (SDS SUBJECT 33-18-00)

B. Possible Causes

- (1) Use the applicable system schematic manual (SSM) or wiring diagram manual (WDM) in the table below to identify possible causes for the lighting problem.

C. Circuit Breakers

- (1) Use the applicable SSM or WDM in the table below to identify the circuit breakers related to the fault.

D. Related Data

- (1) Use the table below to identify the applicable SSM and WDM for the lights in the flight compartment.

E. Initial Evaluation

- (1) In this table, find the light that does not operate correctly and its applicable SSM and WDM:

Table 201

LIGHT	SSM/WDM
Chart Lights	33-17-11
Circuit Breaker Panel Lights	33-14-12
Control Stand Light	33-14-12
Dome Lights	33-14-12
Flight Kit Lights	33-17-11
Instrument and Panel Lts on P1-P3, P7-P10, P21, P23	33-11-11 thru 33-11-41
Instrument and Panel Lts on P5	33-12-11, 33-12-12
Map Lights	33-17-11
MD&T Indicator Lights on P1	33-18-21
MD&T Indicator Lights on P2	33-18-23 thru 33-18-24
MD&T Indicator Lights on P3	33-18-22
MD&T Indicator Lights on P5, Forward	33-18-31 thru 33-18-37
MD&T Indicator Lights on P5, Aft	33-18-41 thru 33-18-42
MD&T Indicator Lights on P7	33-18-51
MD&T Indicator Lights on P8	33-18-61 thru 33-18-63
MD&T LCDs in Panels, Modules, and Indicators	33-18-11 thru 33-18-63

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LIGHT	SSM/WDM
Panel/Glareshield Floodlights	33-14-11
Reading Lights	33-17-11
Standby Compass Light	33-14-12

- (2) On the applicable SSM or WDM, identify the control for the light.
- (3) Set the light to the on mode, then all other possible modes, including off.

NOTE: All lights in the flight compartment have switches but the oxygen mask floodlights. The oxygen mask floodlights should come on when electrical power is supplied to the airplane and go off when its circuit breaker is opened or electrical power is removed from the airplane.

- (a) If the light operates correctly in all possible modes, then there was an intermittent fault.
 - 1) Set the light to the usual mode.
- (b) If the light does not operate correctly in all possible modes, then do the fault isolation procedure below.

F. Fault Isolation Procedure

- (1) If the light does not come on, then replace the lamp or light assembly.

NOTE: A spare lamp box is on the right sidewall that is forward of the first officers seat.

- (a) To replace it, use the applicable task that follows:
 - 1) For a circuit breaker panel light, do this task:
Circuit Breaker Panel Light - Lamp Replacement, AMM TASK 33-14-00-960-805.
 - 2) For a panel/glareshield floodlight, do this task:
Panel/Glareshield Floodlight - Light Assembly Replacement, AMM TASK 33-14-00-960-801.
 - 3) For a dome light, do this task:
Dome Light - Lamp Replacement, AMM TASK 33-14-00-960-804.
 - 4) For an oxygen mask floodlight, do this task:
Oxygen Mask Floodlight - Light Assembly Replacement, AMM TASK 33-14-00-960-803.
 - 5) For the control stand light, do this task:
Control Stand Floodlight - Lamp Replacement, AMM TASK 33-14-00-960-802.
 - 6) For a map light, do this task:
Map Light - Lamp Replacement, AMM TASK 33-17-00-960-801.
 - 7) For a chart light, do this task:
Chart Light - Lamp Replacement, AMM TASK 33-17-00-960-803.
 - 8) For a flight kit light, do this task:
Flight Kit/Reading Light - Lamp Replacement, AMM TASK 33-17-00-960-802.
 - 9) For a reading light, do this task:
Flight Kit/Reading Light - Lamp Replacement, AMM TASK 33-17-00-960-802.



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- 10) For an indicator light,

These are the tasks:

Indicator Light - Lamp Replacement, AMM TASK 33-18-00-960-801,

Indicator Light - Light Assembly Replacement, AMM TASK 33-18-00-960-802.

- 11) For a lightplate, do this task:

Lightplate - Replacement, AMM TASK 33-18-00-960-804.

- 12) For a lighted pushbutton switch, do this task:

Lighted Pushbutton Switch - Lamp Replacement, AMM TASK 33-18-00-960-803.

- 13) For a Standby Compass Light, do this task:

Standby Magnetic Compass Light Not Illuminated, 34-23 TASK 802

- (b) If the light operates correctly in all possible modes, then you corrected the fault.

- (c) If the light does not operate correctly in all possible modes, then continue.

WARNING: BEFORE YOU DO COMPONENT REPLACEMENTS, PROTECT YOURSELF FROM ELECTRICAL SHOCK. OPEN CIRCUIT BREAKERS TO REMOVE ELECTRICAL POWER. ACCIDENTAL GROUNDS DURING MAINTENANCE ACTIVITIES CAN CAUSE ELECTRICAL SHOCK WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHTING SYSTEM.

- (2) If the light does not go off, then use the applicable SSM or WDM to replace the switch.

NOTE: These steps do not apply to the oxygen mask floodlights, or to switches that are not line replaceable units.

- (a) If a circuit breaker was opened, then close it.
- (b) Set the light to the on mode, then to the off mode.
- (c) If the light goes off, then you corrected the fault.
- (d) If the light does not go off, then continue.

WARNING: BEFORE YOU DO WIRING CHECKS, COMPONENT REPLACEMENTS, OR WIRING REPAIRS, PROTECT YOURSELF FROM ELECTRICAL SHOCK. OPEN CIRCUIT BREAKERS OR SET SWITCHES TO THE OFF MODE TO REMOVE ELECTRICAL POWER. ACCIDENTAL GROUNDS DURING MAINTENANCE ACTIVITIES CAN CAUSE ELECTRICAL SHOCK WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHTING SYSTEM.

- (3) If the light does not operate correctly in all possible modes, including off, then use the SSM or WDM to examine the lighting circuitry.

- (a) Do continuity checks between the source of power and the light.
- (b) If you identify a component in the lighting circuitry that does not operate correctly, then replace the component.
 - 1) If a circuit breaker was opened, then close it.
 - 2) Set the light to the on mode, then all other possible modes, including off.
 - 3) If the light operates correctly in all possible modes, then you corrected the fault.
 - a) Set the light to the usual mode.
- (c) If all components in the lighting circuitry operate correctly, then repair the wiring.
 - 1) If a circuit breaker was opened, then close it.
 - 2) Set the light to the on mode, then all other possible modes, including off.



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- 3) If the light operates correctly in all possible modes, then you corrected the fault.
- 4) Set the light to the usual mode.

————— END OF TASK —————





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801. Passenger Compartment Lighting Problem - Fault Isolation

A. Description

- (1) (SDS SUBJECT 33-21-00)
- (2) (SDS SUBJECT 33-22-00)
- (3) (SDS SUBJECT 33-23-00)
- (4) (SDS SUBJECT 33-25-00)
- (5) (SDS SUBJECT 33-26-00)
- (6) (SDS SUBJECT 33-27-00)
- (7) (SDS SUBJECT 33-29-00)

B. Possible Causes

- (1) Use the applicable system schematic manual (SSM) or wiring diagram manual (WDM) in the table below to identify possible causes for the lighting problem.

C. Circuit Breakers

- (1) Use the applicable SSM or WDM in the table below to identify the circuit breakers related to the fault.

D. Related Data

- (1) Use the table below to identify the applicable SSM and WDM for the lights/signs in the passenger compartment.

E. Initial Evaluation

- (1) In this table, find the light/sign that does not operate correctly and its applicable SSM and WDM:

Table 201

LIGHT/SIGNS	SSM/WDM
Attendant Work Lights	33-26-11
Ceiling Lights, Bin	33-22-11, 33-22-12
Ceiling Lights, Recessed	33-22-11, 33-22-12
Chime Lights for Flight and Ground Crew Calls	23-42-11
Chime Lights for Pass. and Lavatory Calls	33-27-11
Closet Lights	33-26-51
Dim Entry Lights	33-29-11
Entry Lights, Fluorescent	33-29-11
Galley Lights	33-26-21
Galley Work Lights	33-26-21
Lavatory Call Lights	33-27-11 thru 33-27-99
Lavatory Lights	33-26-31
Lavatory Mirror Light Switch	33-26-31

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LIGHT/SIGNS	SSM/WDM
Lavatory-Occupied Signs	33-26-31
Night Lights in Ceiling Light Assemblies	33-22-11, 33-22-12
No-Smoking/Fasten-Seat-Belt Signs	33-25-11 thru 33-25-99
Passenger Call Lights	33-27-11 thru 33-27-99
Reading Lights	33-23-11 thru 33-23-99
Return-to-Seat Signs	33-25-11 thru 33-25-99
Threshold Entry Light	33-29-11
Window Lights	33-21-11, 33-21-12

- (2) On the applicable SSM or WDM, identify the control for the light/sign.
- (3) Set the light/sign to the on mode, then all other possible modes, including off.

NOTE: The dim entry light is controlled by the BAT switch on the P5-13 panel (WDM 24-41-11). The light comes on only when 28 volts DC battery power is supplied to the light. It goes off when battery power is removed.

- (a) If the light/sign operates correctly in all possible modes, then there was an intermittent fault.
 - 1) Set the light/sign to the usual mode.
 - (b) If the light/sign does not operate correctly in all possible modes, then do the fault isolation procedure below.

F. Fault Isolation Procedure

- (1) Replace the defective fuse for the light.
 - (a) To replace the fuse, use the applicable task that follows:
 - 1) For a window light, do this task:
Window Light - Fuse Replacement, AMM TASK 33-21-00-960-803.
 - 2) For a bin ceiling light, do this task:
Ceiling Light, Bin - Fuse Replacement, AMM TASK 33-22-00-960-806.
 - 3) For a reading light, no-smoking, fasten-seat-belt sign, or passenger call light, do this task: Reading Light - PSU Circuit Board Fuse Replacement, AMM TASK 33-23-00-960-803.
 - (b) If the light/sign operates correctly in all possible modes, then you corrected the fault.
 - (c) If the light/sign does not operate correctly in all possible modes, then continue.
- (2) If the light/sign does not come on, then replace the lamp or light assembly.
 - (a) To replace it, use the applicable task that follows:
 - 1) For a window light, do this task:
Window Light - Lamp Replacement, AMM TASK 33-21-00-960-801.
 - 2) For a bin ceiling light, do this task:
Ceiling Light, Bin - Lamp Replacement, AMM TASK 33-22-00-960-802.



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- 3) For a recessed ceiling light, do this task:
Ceiling Light, Recessed - Lamp Replacement, AMM TASK 33-22-00-960-801.
- 4) For a night light, do this task:
Ceiling Light, Night - Lamp Replacement, AMM TASK 33-22-00-960-803.
- 5) For a reading light, do this task:
Reading Light - Lamp Replacement, AMM TASK 33-23-00-960-801.
- 6) For a no-smoking or fasten-seat-belt sign, do this task: Information Sign - Lamp Replacement, AMM TASK 33-25-00-960-801 or Information Sign - Lamp Replacement, AMM TASK 33-25-00-960-804.
- 7) For a return-to-seat sign, do this task:
Information Sign - Light Assembly Replacement for a Return-to-Seat Sign, AMM TASK 33-25-00-960-803 or Information Sign - Lamp Replacement for a Return-to-Seat Sign, AMM TASK 33-25-00-960-805.
- 8) For an attendant work light, do this task:
Attendant Work Light - Lamp Replacement, AMM TASK 33-26-01-960-801.
- 9) For a galley light, do this task:
Galley Light - Lamp Replacement, AMM TASK 33-26-02-960-801.
- 10) For a lavatory light problem, do this task:
Lavatory Light - Lamp Replacement, AMM TASK 33-26-03-960-801.
- 11) For a lavatory light Switch problem, do this task:
Lavatory Door Switch - Adjustment/Replacement, AMM TASK 33-26-03-960-804.
- 12) For a lavatory-occupied sign, do this task:
Lavatory-Occupied Sign - Light Assembly Replacement, AMM TASK 33-26-03-960-803.
- 13) For a passenger call light, do this task:
Passenger Call Light - PSU Light/Switch Replacement, AMM TASK 33-27-00-960-801.
- 14) For a lavatory call light, do this task:
Lavatory Call Light - Light/Switch Replacement, AMM TASK 33-27-00-960-802.
- 15) For a fluorescent entry light, do this task:
Entry Light - Fluorescent Lamp Replacement, AMM TASK 33-29-00-960-801.
- 16) For a dim entry light, do this task:
Entry Light - Dim Entry Light Replacement, AMM TASK 33-29-00-960-802.
- 17) For a threshold entry light, do this task:
Entry Light - Threshold Light Lamp Replacement, AMM TASK 33-29-00-960-803.

(b) If the light/sign operates correctly in all possible modes, then you corrected the fault.

(c) If the light/sign does not operate correctly in all possible modes, then continue.





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WARNING: BEFORE YOU DO COMPONENT REPLACEMENTS, PROTECT YOURSELF FROM ELECTRICAL SHOCK. OPEN CIRCUIT BREAKERS TO REMOVE ELECTRICAL POWER. ACCIDENTAL GROUNDS DURING MAINTENANCE ACTIVITIES CAN CAUSE ELECTRICAL SHOCK WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHTING SYSTEM.

(3) If the light/sign does not go off, then use the applicable SSM or WDM to replace the switch.

NOTE: These steps do not apply to the BAT switch (WDM 24-41-11) that operates the dim entry lights.

- (a) If a circuit breaker was opened, then close it.
- (b) Set the light/sign to the on mode, then to the off mode.
- (c) If the light/sign goes off, then you corrected the fault.
- (d) If the light/sign does not go off, then continue.

WARNING: BEFORE YOU DO WIRING CHECKS, COMPONENT REPLACEMENTS, OR WIRING REPAIRS, PROTECT YOURSELF FROM ELECTRICAL SHOCK. OPEN CIRCUIT BREAKERS OR SET SWITCHES TO THE OFF MODE TO REMOVE ELECTRICAL POWER. ACCIDENTAL GROUNDS DURING MAINTENANCE ACTIVITIES CAN CAUSE ELECTRICAL SHOCK WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHTING SYSTEM.

(4) If the light/sign does not operate correctly in all possible modes, including off, then use the SSM or WDM to examine the lighting circuitry.

- (a) Do continuity checks between the source of power and the light/sign.
- (b) If you identify a component in the lighting circuitry that does not operate correctly, then replace the component.
 - 1) If a circuit breaker was opened, then close it.
 - 2) Set the light/sign to the on mode, then all other possible modes, including off.
 - 3) If the light/sign operates correctly in all possible modes, then you corrected the fault.
 - a) Set the light/sign to the usual mode.
- (c) If all components in the lighting circuitry operate correctly, then repair the wiring.
 - 1) If a circuit breaker was opened, then close it.
 - 2) Set the light/sign to the on mode, then all other possible modes, including off.
 - 3) If the light operates correctly in all possible modes, then you corrected the fault.
 - 4) Set the light/sign to the usual mode.

————— END OF TASK —————



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801. Cargo/Service Compartment Lighting Problem - Fault Isolation

A. Description

- (1) (SDS SUBJECT 33-32-00)
- (2) (SDS SUBJECT 33-33-00)
- (3) (SDS SUBJECT 33-34-00)
- (4) (SDS SUBJECT 33-35-00)
- (5) (SDS SUBJECT 33-36-00)

B. Possible Causes

- (1) Use the applicable system schematic manual (SSM) or wiring diagram manual (WDM) in the table below to identify possible causes for the lighting problem.

C. Circuit Breakers

- (1) Use the applicable SSM or WDM in the table below to identify the circuit breakers related to the fault.

D. Related Data

- (1) Use the table below to identify the applicable SSM and WDM for the lights in the cargo and service compartments.

E. Initial Evaluation

- (1) In this table, find the light that does not operate correctly and its applicable SSM and WDM:

Table 201

LIGHT	SSM/WDM
Accessory Compartment Lights	33-35-11
Air Conditioning Compartment Lights	33-33-11
APU Service Lights	33-35-11
Cargo Compartment Lights, Aft	33-36-12
Cargo Compartment Lights, Forward	33-36-11
Electronic Equipment Compartment Lights	33-34-11
Tailcone Lights	33-35-11
Wheel Well Lights	33-32-11

- (2) On the applicable SSM or WDM, identify the control for the light.
- (3) Set the light to the on mode, then all other possible modes, including off.
 - (a) If the light operates correctly in all possible modes, then there was an intermittent fault.
 - 1) Set the light to the usual mode.
 - (b) If the light does not operate correctly in all possible modes, then do the fault isolation procedure below.

F. Fault Isolation Procedure

- (1) If the light does not come on, then replace the lamp.

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- (a) To replace it, use the applicable task that follows:
 - 1) For a wheel well light, do this task:
Wheel Well Light - Lamp Replacement, AMM TASK 33-32-00-960-801.
 - 2) For an air conditioning compartment light, do this task:
Air Conditioning Compartment Light - Lamp Replacement, AMM TASK 33-33-00-960-801.
 - 3) For an electronic equipment compartment light, do this task:
Electronic Equipment Compartment Light - Lamp Replacement, AMM TASK 33-34-00-960-801.
 - 4) For an accessory compartment light, do this task:
Accessory Compartment Light - Lamp Replacement, AMM TASK 33-35-00-960-801.
 - 5) For an APU service light, do this task:
Air Conditioning Compartment Light - Lamp Replacement, AMM TASK 33-33-00-960-801.
 - 6) For a tailcone light, do this task:
Accessory Compartment Light - Lamp Replacement, AMM TASK 33-35-00-960-801.
 - 7) For a cargo compartment light,
These are the tasks:
 - Cargo Compartment Light - Lamp Replacement, Door, AMM TASK 33-36-00-960-802,
 - Cargo Compartment Light - Lamp Replacement, Ceiling, AMM TASK 33-36-00-960-801.
- (b) If the light operates correctly in all possible modes, then you corrected the fault.
- (c) If the light does not operate correctly in all possible modes, then continue.

WARNING: BEFORE YOU DO COMPONENT REPLACEMENTS, PROTECT YOURSELF FROM ELECTRICAL SHOCK. OPEN CIRCUIT BREAKERS TO REMOVE ELECTRICAL POWER. ACCIDENTAL GROUNDS DURING MAINTENANCE ACTIVITIES CAN CAUSE ELECTRICAL SHOCK WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHTING SYSTEM.

- (2) If the light does not go off, then use the applicable SSM or WDM to replace the switch.
 - (a) If a circuit breaker was opened, then close it.
 - (b) Set the light to the on mode, then to the off mode.
 - (c) If the light goes off, then you corrected the fault.
 - (d) If the light does not go off, then continue.

WARNING: BEFORE YOU DO WIRING CHECKS, COMPONENT REPLACEMENTS, OR WIRING REPAIRS, PROTECT YOURSELF FROM ELECTRICAL SHOCK. OPEN CIRCUIT BREAKERS OR SET SWITCHES TO THE OFF MODE TO REMOVE ELECTRICAL POWER. ACCIDENTAL GROUNDS DURING MAINTENANCE ACTIVITIES CAN CAUSE ELECTRICAL SHOCK WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHTING SYSTEM.

- (3) If the light does not operate correctly in all possible modes, including off, then use the SSM or WDM to examine the lighting circuitry.
 - (a) Do continuity checks between the source of power and the light.



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- (b) If you identify a component in the lighting circuitry that does not operate correctly, then replace the component.
 - 1) If a circuit breaker was opened, then close it.
 - 2) Set the light to the on mode, then all other possible modes, including off.
 - 3) If the light operates correctly in all possible modes, then you corrected the fault.
 - a) Set the light to the usual mode.
- (c) If all components in the lighting circuitry operate correctly, then repair the wiring.
 - 1) If a circuit breaker was opened, then close it.
 - 2) Set the light to the on mode, then all other possible modes, including off.
 - 3) If the light operates correctly in all possible modes, then you corrected the fault.
 - 4) Set the light to the usual mode.

————— END OF TASK —————



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801. Exterior Lighting Problem - Fault Isolation

A. Description

- (1) (SDS SUBJECT 33-41-00)
- (2) (SDS SUBJECT 33-42-00)
- (3) (SDS SUBJECT 33-43-00)
- (4) (SDS SUBJECT 33-45-00)
- (5) (SDS SUBJECT 33-49-00)

B. Possible Causes

- (1) Use the applicable system schematic manual (SSM) or wiring diagram manual (WDM) in the table below to identify possible causes for the lighting problem.

C. Circuit Breakers

- (1) Use the applicable SSM or WDM in the table below to identify the circuit breakers related to the fault.

D. Related Data

- (1) Use the table below to identify the applicable SSM and WDM for the lights in the flight compartment.

E. Initial Evaluation

- (1) AIRPLANES WITH CABIN/UTILITY SWITCH ON THE P5-13 PANEL;
Make sure CAB/UTIL switch is in the ON position.
- (2) In this table, find the light that does not operate correctly and its applicable SSM and WDM:

Table 201

LIGHT	SSM/WDM
Landing Lights, Fixed	33-42-11
Landing Lights, Retractable	33-42-11
Logo Lights	33-49-11
Position (Nav) Lights, Wing Aft	33-43-11
Position (Nav) Lights, Wing Forward	33-43-11
Runway Turnoff Lights	33-45-11
Taxi Light	33-45-11
Wing Illumination Lights	33-41-11

- (3) On the applicable SSM or WDM, identify the control for the light.
- (4) Set the light to the on mode, then all other possible modes, including off.
 - (a) If the light operates correctly in all possible modes, then there was an intermittent fault.
 - 1) Set the light to the usual mode.
 - (b) If the light does not operate correctly in all possible modes, then do the fault isolation procedure below.



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F. Fault Isolation Procedure

- (1) If the light does not come on, then replace the lamp.
 - (a) To replace it, use the applicable task that follows:
 - 1) For a wing illumination light, do this task:
Wing Illumination Light - Lamp Replacement, AMM TASK 33-41-00-960-801.
 - 2) For a fixed landing light, do this task:
Fixed Landing Light - Lamp Replacement, AMM TASK 33-42-01-960-801.
 - 3) For a retractable landing light, do this task:
Retractable Landing Light - Lamp Replacement, AMM TASK 33-42-02-960-801.
 - 4) For a forward wing position light, do this task:
Forward Position Light - Lamp Replacement, AMM TASK 33-43-11-960-801 or
Forward Position Light - Lamp Replacement, AMM TASK 33-43-11-960-802
 - 5) For an aft wing position light, do this task:
Aft Position Light - Lamp Replacement, AMM TASK 33-43-12-960-801.
 - 6) For a taxi light, do this task:
Taxi Light - Lamp Replacement, AMM TASK 33-45-01-960-801.
 - 7) For a runway turnoff light, do this task:
Runway Turnoff Light - Lamp Replacement, AMM TASK 33-45-02-960-801.
 - 8) For a logo light, do this task:
Logo Light - Lamp Replacement, AMM TASK 33-49-00-960-801.
 - (b) If the light operates correctly in all possible modes, then you corrected the fault.
 - (c) If the light does not operate correctly in all possible modes, then continue.

WARNING: BEFORE YOU DO COMPONENT REPLACEMENTS, PROTECT YOURSELF FROM ELECTRICAL SHOCK. OPEN CIRCUIT BREAKERS TO REMOVE ELECTRICAL POWER. ACCIDENTAL GROUNDS DURING MAINTENANCE ACTIVITIES CAN CAUSE ELECTRICAL SHOCK WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHTING SYSTEM.

- (2) If the light does not go off, then use the applicable SSM or WDM to replace the switch.
 - (a) If a circuit breaker was opened, then close it.
 - (b) Set the light to the on mode, then to the off mode.
 - (c) If the light goes off, then you corrected the fault.
 - (d) If the light does not go off, then continue.

WARNING: BEFORE YOU DO WIRING CHECKS, COMPONENT REPLACEMENTS, OR WIRING REPAIRS, PROTECT YOURSELF FROM ELECTRICAL SHOCK. OPEN CIRCUIT BREAKERS OR SET SWITCHES TO THE OFF MODE TO REMOVE ELECTRICAL POWER. ACCIDENTAL GROUNDS DURING MAINTENANCE ACTIVITIES CAN CAUSE ELECTRICAL SHOCK WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHTING SYSTEM.

- (3) If the light does not operate correctly in all possible modes, including off, then use the SSM or WDM to examine the lighting circuitry.
 - (a) Do continuity checks between the source of power and the light.



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- (b) If you identify a component in the lighting circuitry that does not operate correctly, then replace the component.
 - 1) If a circuit breaker was opened, then close it.
 - 2) Set the light to the on mode, then all other possible modes, including off.
 - 3) If the light operates correctly in all possible modes, then you corrected the fault.
 - a) Set the light to the usual mode.
- (c) If all components in the lighting circuitry operate correctly, then repair the wiring.
 - 1) If a circuit breaker was opened, then close it.
 - 2) Set the light to the on mode, then all other possible modes, including off.
 - 3) If the light operates correctly in all possible modes, then you corrected the fault.
 - 4) Set the light to the usual mode.

————— END OF TASK —————



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FAULT ISOLATION MANUAL**801. Anti-Collision Light Problem - Fault Isolation****A. Description**

- (1) (SDS SUBJECT 33-44-00)
- (2) The anti-collision lights include the red strobe lights on the top and bottom of the fuselage, the white strobe lights installed in each forward wing tip light assembly, and the white strobe light on the tail.

NOTE: Do not replace the forward wing tip light assemblies, L38 and L40. Replace its anti-collision light only.

Table 201

ANTI-COLLISION LT	POWER SUPPLY	SWITCH	CIRCUIT BREAKER
L36, Upper	M1744	S57	C00111
L37, Lower	M1745	S57	C00111
Right Wing (in L38)	M1742	S58/S636	C00115
Left Wing (in L40)	M1743	S58/S636	C00115
L46, Tail	None	S58/S636	C00115
Wing & Tail	M1743 & None	R593	C00115

B. Possible Causes

- (1) Lamp Assembly
- (2) Light assembly
- (3) Power Supply
- (4) Switch
- (5) Circuit breaker
- (6) Wiring
- (7) Air/Ground Relay

C. Circuit Breakers

- (1) These are the primary circuit breakers related to the fault:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED
B	13	C00115	EXTERIOR LIGHTING ANTI COLLISION WHITE

D. Related Data

- (1) (SSM 33-44-11)
- (2) (SSM 33-44-12)
- (3) (WDM 33-44-11)
- (4) (WDM 33-44-12)

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E. Initial Evaluation

- (1) At the overhead panel, P5, set the switch for the anti-collision light to the on mode.
 - (a) If the light comes on and flashes correctly, then set the switch to the off mode.

NOTE: FOR THE UPPER, LOWER, OR WING ANTI-COLLISION LIGHT;

Let the light flash for 20 seconds to stabilize the system. If no misfire occurs, and the light flashed 40 to 45 times a minute, the system operates correctly. If a misfire occurs before the system becomes stable, let the light flash for 60 more seconds. There must be no other misfires after the system becomes stable for the system to operate correctly.

Table 202

ANTI-COLLISION LIGHT	FLASHES PER MINUTE
Upper	40 to 45
Lower	40 to 45
Left Wing	40 to 45
Right Wing	40 to 45
Tail	60

- 1) If the light goes off, then there was an intermittent fault.
- 2) If the light does not go off, then do the fault isolation procedure - The Light Does Not Go Off below.
- (b) If the light comes on but does not flash correctly, then do the fault isolation procedure - The Light Comes On But Does Not Flash Correctly below.
- (c) If the light does not come on, then do a visual check of lights that use the same circuit breaker.

NOTE: The red anti-collision lights use the same circuit breaker. The white anti-collisions lights use the same circuit breaker.

- 1) If a light that uses the same circuit breaker comes on, then do the fault isolation procedure - The Light Does Not Come On below.
- 2) If a light that uses the same circuit breaker does not come on, then do the fault isolation procedure - No Lights Come On below.
- (d) If the light comes on and off correctly, set the switch to the Auto mode.
 - 1) Put the airplane in Air Mode AMM PAGEBLOCK 32-09-00/201 and verify that the Lights come on and flash correctly.
 - a) If the lights come on and flash correctly there was an intermittent fault.
 - b) If the lights do not come on correctly, fault isolate the Air/Ground system AMM PAGEBLOCK 32-09-00/201.

F. Fault Isolation Procedure - The Light Does Not Go Off

- (1) At the P5 panel, replace the applicable switch, S57 (WDM 33-44-11) or S58/S636 (WDM 33-44-12).
 - (a) Set the switch to the on mode.
 - (b) After the light flashes for a minimum of 20 seconds, set the switch to the off mode.
 - (c) If the light goes off, then you corrected the fault.



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FAULT ISOLATION MANUAL**G. Fault Isolation Procedure - The Light Comes On But Does Not Flash Correctly****(1) FOR AN UPPER OR LOWER ANTI-COLLISION;**

Replace the applicable light assembly, L36 or L37.

(a) To replace the upper light assembly, do this task:

Upper Anti-Collision Light - Light Assembly Replacement, AMM
TASK 33-44-01-960-802.

(b) To replace the lower light assembly, do this task:

Lower Anti-Collision Light - Light Assembly Replacement, AMM
TASK 33-44-02-960-802.

(c) If the light comes on and flashes correctly, then you corrected the fault.**(d) If the light does not flash correctly, then replace the applicable power supply, M1744 or M1745.****1) To replace the upper power supply, do this task:**

Upper Anti-Collision Light - Power Supply Replacement, AMM
TASK 33-44-01-960-804.

2) To replace the lower power supply, do this task:

Lower Anti-Collision Light - Power Supply Replacement, AMM
TASK 33-44-02-960-804.

3) If the light comes on and flashes correctly, then you corrected the fault.**(2) FOR A WING ANTI-COLLISION LIGHT;**

Replace the anti-collision light assembly in the applicable winglet or in the forward wing tip light assembly, L38 or L40.

NOTE: Do not replace the forward wing tip light assemblies, L38 and L40. Replace its anti-collision light only.

(a) To replace it, do this task:

Anti-Collision Light - Light Assembly Replacement, AMM TASK 33-44-13-960-801 or
Anti-Collision Light - Light Assembly Replacement, AMM TASK 33-44-13-960-803

(b) If the light comes on and flashes correctly, then you corrected the fault.**(c) If the light does not flash correctly, then replace the applicable power supply, M1742 or M1743.****1) To replace it, do this task:**

Anti-collision Light - Power Supply Replacement, AMM TASK 33-44-13-960-802.

2) If the light comes on and flashes correctly, then you corrected the fault.**(3) FOR TAIL ANTI-COLLISION LIGHT;**

Replace the lamp assembly, L46.

(a) To replace it, do this task:

Tail Anti-Collision Light - Lamp Replacement, AMM TASK 33-44-04-960-801.

(b) If the light comes on and flashes correctly, then you corrected the fault.**H. Fault Isolation Procedure - The Light Does Not Come On****(1) FOR AN UPPER OR LOWER ANTI-COLLISION;**

Replace the lamp assembly in the applicable light assembly, L36 or L37.

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- (a) To replace the upper lamp, do this task:
Upper Anti-Collision Light - Lamp Assembly Replacement, AMM
TASK 33-44-01-960-801.
- (b) To replace the lower lamp, do this task:
Lower Anti-Collision Light - Lamp Assembly Replacement, AMM
TASK 33-44-02-960-801.
- (c) If the light comes on, then you corrected the fault.
- (d) If the light does not come on, then do a continuity check of the wiring between the switch, S57, and the applicable light assembly, L36 or L37 (WDM 33-44-11).
 - 1) If there is electrical continuity, then replace the applicable light assembly, L36 or L37.
 - a) To replace the upper light, do this task:
Upper Anti-Collision Light - Light Assembly Replacement, AMM
TASK 33-44-01-960-802.
 - b) To replace the lower light, do this task:
Lower Anti-Collision Light - Light Assembly Replacement, AMM
TASK 33-44-02-960-802.
 - c) If the light comes on, then you corrected the fault.
 - d) If the light does not come on, then replace the applicable power supply, M1744 or M1745.

These are the tasks:

- Upper Anti-Collision Light - Power Supply Replacement, AMM
TASK 33-44-01-960-804,
- Lower Anti-Collision Light - Power Supply Replacement, AMM
TASK 33-44-02-960-804.

- e) If the light comes on, then you corrected the fault.
- 2) If there is not electrical continuity, then repair the wiring.
 - a) Set the switch to the on mode.
 - b) If the light comes on, then you corrected the fault.
 - c) Set the switch to the off mode.

(2) FOR A WING ANTI-COLLISION LIGHT;

Replace the anti-collision light assembly in the applicable winglet or in the forward wing tip light assembly, L38 or L40.

NOTE: Do not replace the forward wing tip light assemblies, L38 and L40. Replace its anti-collision light only.

- (a) To replace it, do this task:
Anti-Collision Light - Light Assembly Replacement, AMM TASK 33-44-13-960-801 or
Anti-Collision Light - Light Assembly Replacement, AMM TASK 33-44-13-960-803.
- (b) If the light comes on, then you corrected the fault.
- (c) If the light does not come on, then do a continuity check of the wiring between the switch, S58/S636, and all pins on connector P4 of the applicable light assembly, L38 or L40 (WDM 33-44-12).
 - 1) If there is electrical continuity, then replace the applicable power supply, M1742 or M1743.

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- a) To replace it, do this task:
Anti-collision Light - Power Supply Replacement, AMM TASK 33-44-13-960-802.
- b) If the light comes on, then you corrected the fault.
- 2) If there is not electrical continuity, then repair the wiring.
 - a) Set the switch to the on mode.
 - b) If the light comes on, then you corrected the fault.
 - c) Set the switch to the off mode.
- (3) FOR TAIL ANTI-COLLISION LIGHT;
Replace the lamp assembly, L46.
 - a) To replace it, do this task:
Tail Anti-Collision Light - Lamp Replacement, AMM TASK 33-44-04-960-801.
 - b) If the light comes on, then you corrected the fault.
 - c) If the light does not come on, then do a continuity check of the wiring between the switch, S58/S636, and the light assembly, L46 (WDM 33-44-12).
 - 1) If there is electrical continuity, then replace the light assembly, L46.
 - a) To replace it, do this task:
Tail Anti-Collision Light - Light Assembly Replacement, AMM TASK 33-44-04-960-802.
 - b) If the light comes on, then you corrected the fault.
 - 2) If there is not electrical continuity, then repair the wiring.
 - a) Set the switch to the on mode.
 - b) If the light comes on, then you corrected the fault.
 - c) Set the switch to the off mode.

I. Fault Isolation Procedure - No Lights Come On

- (1) Do a continuity check of the wiring between the applicable switch, S57 or S58/S636, and the circuit breaker, C00111 or C00115 (WDM 33-44-11) (WDM 33-44-12).
 - (a) If there is electrical continuity, then replace the switch, S57 or S58/S636.
 - 1) Set the switch to the on mode.
 - 2) If the light comes on, then you corrected the fault.
 - 3) Set the switch to the off mode.
 - (b) If there is not electrical continuity, then replace the applicable circuit breaker, C00111 or C00115.
 - 1) Set the switch to the on mode.
 - 2) If the light comes on, then you corrected the fault.
 - a) Set the switch to the off mode.
 - 3) If the light does not come on, then repair the wiring.
 - a) Make sure the switch is in the on mode.
 - b) If the light comes on, then you corrected the fault.
 - c) Set the switch to the off mode.

————— END OF TASK —————



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801. Emergency Lighting Problem - Fault Isolation

A. Description

- (1) (SDS SUBJECT 33-51-00)

B. Possible Causes

- (1) Use the applicable system schematic manual (SSM) or wiring diagram manual (WDM) in the table below to identify possible causes for the lighting problem.

C. Circuit Breakers

- (1) Use the applicable SSM or WDM in the table below to identify the circuit breakers related to the fault.

D. Related Data

- (1) Use the table below to identify the applicable SSM and WDM for the emergency light/sign.

E. Initial Evaluation

- (1) In this table, find the light/sign that does not operate correctly and its applicable SSM and WDM:

Table 201

EMERGENCY LIGHTS/SIGNS	SSM/WDM
Area Light	33-51-12 thru 33-51-14
Exit Sign/Indicator	33-51-12 thru 33-51-14, 33-51-21
Floor Proximity Light	33-51-21
Handle Light in the Overwing Exit Sign	33-51-13
Slide/Overwing Light	33-51-12 thru 33-51-14
Power Supply	33-51-11

- (2) To make sure the battery packs are charged, do this task:

Power Supply - Charge the Battery Packs, AMM TASK 33-51-06-610-802.

- (3) Make sure the attendant's emergency light switch in the passenger compartment is in the off mode.

- (4) At the overhead panel, P5, set the pilots emergency light switch, S7, to the on mode.

- (a) If the emergency light/sign comes on correctly, set the switch to the off mode.
 - 1) If the emergency light/sign goes off, then there was an intermittent fault.
 - 2) If the emergency light/sign does not go off, then do the fault isolation procedure - The Light/Sign Does Not Go Off below.
- (b) If the emergency light/sign comes on but one or more of its lamps does not come on, set the switch to the off mode, then do the fault isolation procedure - One Lamp Does Not Come On below.

NOTE: This option is used for emergency lights/signs that contain more than one lamp.

- (c) If the emergency light/sign does not come on, then do a visual check of the remaining emergency lights and signs.
 - 1) If no emergency lights and signs come on, set the switch to the off mode, then do the fault isolation procedure - No Lights and Signs Come On below.

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- 2) If all emergency lights and signs that use the same battery pack come on, set the switch to the off mode, then do the fault isolation procedure - The Light/Sign Does Not Come On below.

NOTE: Use the SSM or WDM to isolate the lights and signs that use the same battery pack.

- 3) If a group of emergency lights and signs that uses the same battery pack or circuit breaker does not come on, set the switch to the off mode, then do the fault isolation procedure - A Group of Lights and Signs Does Not Come On below.

NOTE: Use the SSM or WDM to isolate the lights and signs that use the same battery pack.

F. Fault Isolation Procedure - The Light/Sign Does Not Go Off

- (1) If no emergency lights and signs go off, then replace the pilots emergency light switch, S7 (WDM 33-51-11).

- (a) Set the switch to the on mode, and then to the off mode.
 - (b) If the light/sign goes off, then you corrected the fault.

- 1) Do this task:

Power Supply - Charge the Battery Packs, AMM TASK 33-51-06-610-802.

- (2) If all emergency lights and signs that use the same battery pack do not go off, then do a check of the wiring between the pilots emergency light switch, S7, and the applicable power supply (WDM 33-51-11).

- (a) If there is an open circuit, repair the wiring.
 - (b) Set the switch to the on mode, and then to the off mode.
 - (c) If the light/sign goes off, then you corrected the fault.

- 1) Do this task:

Power Supply - Charge the Battery Packs, AMM TASK 33-51-06-610-802.

- (d) If the light/sign does not go off, then do a check of the wiring between the applicable power supply and the applicable circuit breaker (WDM 33-51-11).

- 1) Repair the wiring.
 - 2) Set the switch to the on mode, and then to the off mode.
 - 3) If the light/sign goes off, then you corrected the fault.

- a) Do this task:

Power Supply - Charge the Battery Packs, AMM TASK 33-51-06-610-802.

- (3) If the one emergency light/sign does not off but all other lights and signs go off, do a check of the wiring between the applicable power supply and the emergency light/sign (WDM 33-51-12) (WDM 33-51-13) (WDM 33-51-14) (WDM 33-51-21).

- (a) Repair the wiring.
 - (b) Set the switch to the on mode, and then to the off mode.
 - (c) If the light/sign goes off, then you corrected the fault.

- 1) Do this task:

Power Supply - Charge the Battery Packs, AMM TASK 33-51-06-610-802.

G. Fault Isolation Procedure - One Lamp Does Not Come On

- (1) Replace the lamp. Use the applicable task that follows:



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- (a) For an exit sign/indicator, do this task:
Exit Sign - Lamp Replacement, AMM TASK 33-51-01-960-801.
- (b) For a handle light in the overwing exit sign, do this task:
Exit Sign - Lamp Replacement, AMM TASK 33-51-01-960-801.
- (c) If the light/sign comes on, then you corrected the fault.
 - 1) Do this task:
Power Supply - Charge the Battery Packs, AMM TASK 33-51-06-610-802.

H. Fault Isolation Procedure - No Lights and Signs Come On

- (1) Replace the pilots emergency light switch, S7 (WDM 33-51-11).
 - (a) Set the switch to the on mode.
 - (b) If the lights and signs come on, then you corrected the fault.
 - 1) Set the switch to the off mode.
 - (2) Do this task:
Power Supply - Charge the Battery Packs, AMM TASK 33-51-06-610-802.

I. Fault Isolation Procedure - The Light/Sign Does Not Come On

- (1) Replace the lamp. Use the applicable task that follows:
 - (a) For an exit sign/indicator, do this task:
Exit Sign - Lamp Replacement, AMM TASK 33-51-01-960-801.
 - (b) For a handle light in the overwing exit sign, do this task:
Exit Sign - Lamp Replacement, AMM TASK 33-51-01-960-801.
 - (c) For an area light, do this task:
Area Light - Lamp Replacement, AMM TASK 33-51-03-960-801.
 - (d) For a slide/overwing light, do this task:
Slide/Overwing Light - Lamp Replacement, AMM TASK 33-51-04-960-801.
 - (e) For a floor proximity light, use the applicable procedure below:
 - 1) Do this task:
Floor Proximity Light - Lamp Replacement, AMM TASK 33-51-14-960-801.
 - (f) If the light/sign comes on, then you corrected the fault.
 - 1) Do this task:
Power Supply - Charge the Battery Packs, AMM TASK 33-51-06-610-802.
 - (g) If the light/sign does not come on, then continue.
- (2) Replace the light assembly. Use the applicable task that follows:
 - (a) For an exit sign/indicator, do this task:
Exit Sign - Light Assembly Replacement, AMM TASK 33-51-01-960-802.
 - (b) For a handle light in an overwing exit sign, do this task:
Exit Sign - Light Assembly Replacement, AMM TASK 33-51-01-960-802.
 - (c) For an area light, do this task:
Area Light - Light Assembly Replacement, AMM TASK 33-51-03-960-802.
 - (d) For a floor proximity light, use the applicable procedure below:





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- 1) Do this task:

Floor Proximity Light - Light Assembly Replacement, AMM TASK 33-51-12-960-802.

- 2) Do this task:

Floor Proximity Light - Light Assembly Replacement, AMM TASK 33-51-14-960-802.

- (e) If the light/sign comes on, then you corrected the fault.

- 1) Do this task:

Power Supply - Charge the Battery Packs, AMM TASK 33-51-06-610-802.

- (f) If the light/sign does not come on, then continue.

- (3) Do a check of the wiring between the applicable power supply and the emergency light/sign (WDM 33-51-12) (WDM 33-51-13) (WDM 33-51-14) (WDM 33-51-21).

- (a) Repair the wiring.

- (b) Set the switch to the on mode.

- (c) If the light/sign comes on, then you corrected the fault.

- 1) Set the switch to the off mode.

- 2) Do this task:

Power Supply - Charge the Battery Packs, AMM TASK 33-51-06-610-802.

J. Fault Isolation Procedure - A Group of Lights and Signs Does Not Come On

- (1) Do a check for 28 volts DC at the applicable circuit breaker on the P18-3 panel.

- (a) If there is not 28 volts DC at the circuit breaker, then replace the circuit breaker.

- 1) Set the switch to the on mode.

- 2) If the light/sign comes on, then you corrected the fault.

- (a) Set the switch to the off mode.

- (b) Do this task:

Power Supply - Charge the Battery Packs, AMM TASK 33-51-06-610-802.

- (3) If the light/sign does not come on, then do a check of the wiring between the circuit breaker and the applicable power supply (WDM 33-51-11).

- (a) Repair the wiring.

- (b) Set the switch to the on mode.

- (c) If the light/sign comes on, then you corrected the fault. Set the switch to the off mode, then, do this task:

Power Supply - Charge the Battery Packs, AMM TASK 33-51-06-610-802.

- (b) If there is 28 volts DC at the circuit breaker, then continue.

- (2) Replace the applicable battery pack. To replace it, do this task:

Power Supply - Battery Pack Replacement, AMM TASK 33-51-06-960-805.

- (a) If the light/sign comes on, then you corrected the fault.

- 1) Do this task:

Power Supply - Charge the Battery Packs, AMM TASK 33-51-06-610-802.

- (b) If the light/sign does not come on, then continue.

- (3) Replace the defective power supply fuse. To replace it, do this task:

Power Supply - Fuse Replacement, AMM TASK 33-51-06-960-804.

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- (a) If the light/sign comes on, then you corrected the fault.
- (b) If the light/sign does not come on, then continue.

(4) Replace the applicable power supply. To replace it, do this task:
Power Supply - Power Supply Replacement, AMM TASK 33-51-06-960-806.

- (a) If the light/sign comes on, then you corrected the fault.
 - 1) Do this task:
Power Supply - Charge the Battery Packs, AMM TASK 33-51-06-610-802.

————— END OF TASK ————

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801. Flashlight Problem - Fault Isolation

A. Initial Evaluation

- (1) When more than one flashlight is in the specified area, do this initial evaluation for each flashlight to find the one that does not operate correctly.
- (2) If the flashlight is in a mounting bracket, remove it.
- (3) Set the switch on the flashlight to the on mode and then to the off mode.
 - (a) FOR A FLASHLIGHT THAT IS NOT RECHARGEABLE:
 - 1) If the flashlight does not come on or go off correctly, use the standard method of your airline to correct the fault.
 - 2) If the flashlight comes on and goes off correctly, then there was an intermittent fault.
 - a) If the flashlight was in a mounting bracket, put it back.

————— END OF TASK —————

