

关于 NG 和 MAX 飞机着陆转弯灯不亮排故手册差异的维护提示

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一、背景

NG 飞机和 MAX 飞机的 LED 着陆灯和转弯灯组件件号相同，但其排故手册确不同，如果按 NG 飞机得习惯去办理 MAX 的着陆灯和转弯灯故障保留时，可能会出现不符合手册的情况。

二、依据文件

IPC、FIM、IFIM

三、系统描述

NA

四、内容

1、NG 飞机 LED 着陆灯和转弯灯件号

30	72500410-2	<p>• ARRAY ASSY - LED (ESDS) Supplier Code: V72914 COMPONENT MAINT MANUAL REF: 33-43-91 POSITION DATA: LH INBD FUNCTIONAL DESCRIPTION: PROVIDES HIGH INTENSITY ILLUMINATION FOR AIRCRAFT APPROACH, TOUCHDOWN, GROUND ROLL, AND TAKEOFF ELECTRICAL EQUIP NUMBER: L01543 QUALIFIED IW DATA: 72500454-002 CAN REPLACE OR BE REPLACED BY 72500410-2 ONLY FOR THE LTRTL MAIN ARRAY ASSY (LH INBOARD) P/N 72500410-2 MUST BE REPLACED SIMULTANEOUSLY ALONGSIDE THE LTRTL MAIN ARRAY ASSY (LH OUTBOARD) P/N 72500410-1.</p>	099-100, 102-193, 197-198, 204-700, 711-721, 837-837, 846-852, 854-999	1	AR
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25	72500415-1	<ul style="list-style-type: none"> • LIGHT ASSY - RUNWAY TURN OFF <p>Supplier Code: V72914</p> <p>COMPONENT MAINT MANUAL REF: 33-43-88</p> <p>FUNCTIONAL DESCRIPTION: RUNWAY TURNOFF LIGHTS SHINE TO THE SIDE OF THE AIRPLANE TO ILLUMINATE RUNWAY EDGES AND TURNOFFS AND TO PROVIDE GROUND ILLUMINATION WHEN THE AIRPLANE IS TURNING</p>	099-100, 102-193, 197-198, 204-700, 711-721, 837-837, 846-852, 854-999	1	AR
85	72500460-001	<ul style="list-style-type: none"> • LIGHT ASSY - RUNWAY TURN OFF <p>Supplier Code: V72914</p> <p>COMPONENT MAINT MANUAL REF: 33-43-89</p> <p>POSITION DATA: LH SIDE</p> <p>FUNCTIONAL DESCRIPTION: RUNWAY TURNOFF LIGHTS SHINE TO THE SIDE OF THE AIRPLANE TO ILLUMINATE RUNWAY EDGES AND TURNOFFS AND TO PROVIDE GROUND ILLUMINATION WHEN THE AIRPLANE IS TURNING</p>	099-100, 102-193, 197-198, 204-700, 711-721, 837-837, 846-852, 854-999	1	AR
2、MAX 飞机 LED 着陆灯和转弯灯件号					
30	72500410-2	<ul style="list-style-type: none"> • ARRAY ASSY - LED (ESDS) <p>Supplier Code: V72914</p> <p>COMPONENT MAINT MANUAL REF: 33-43-91</p> <p>POSITION DATA: LH INBD</p> <p>FUNCTIONAL DESCRIPTION: PROVIDES HIGH INTENSITY ILLUMINATION FOR AIRCRAFT APPROACH, TOUCHDOWN, GROUND ROLL, AND TAKEOFF</p> <p>ELECTRICAL EQUIP NUMBER: L01543</p> <p>QUALIFIED I/W DATA: 72500454-002 CAN REPLACE OR BE REPLACED BY 72500410-2 ONLY FOR THE LTRTL MAIN ARRAY ASSY (LH INBOARD) P/N 72500410-2 MUST BE REPLACED SIMULTANEOUSLY ALONGSIDE THE LTRTL MAIN ARRAY ASSY (LH OUTBOARD) P/N 72500410-1.</p>	001-999	1	AR

25	72500415-1	<ul style="list-style-type: none"> • LIGHT ASSY Supplier Code: V72914 COMPONENT MAINT MANUAL REF: 33-43-88 POSITION DATA: LH SIDE FUNCTIONAL DESCRIPTION: RUNWAY TURNOFF LIGHTS SHINE TO THE SIDE OF THE AIRPLANE TO ILLUMINATE RUNWAY EDGES AND TURNOFFS AND TO PROVIDE GROUND ILLUMINATION WHEN THE AIRPLANE IS TURNING ELECTRICAL EQUIP NUMBER: L01545 	001-999	1	AR
100	72500460-001	<ul style="list-style-type: none"> • LIGHT ASSY Supplier Code: V72914 COMPONENT MAINT MANUAL REF: 33-43-89 POSITION DATA: LH SIDE FUNCTIONAL DESCRIPTION: RUNWAY TURNOFF LIGHTS SHINE TO THE SIDE OF THE AIRPLANE TO ILLUMINATE RUNWAY EDGES AND TURNOFFS AND TO PROVIDE GROUND ILLUMINATION WHEN THE AIRPLANE IS TURNING ELECTRICAL EQUIP NUMBER: L01545 FUNCTIONAL REFERENCE: PLACARDS AND MARKINGS FOR DETAILS SEE: 11-24-04-54 	001-999	1	AR

从上文 1 和 2 可以看出，NG 和 MAX 飞机的着陆灯和转弯灯组件件号一样。

3、NG 飞机 FIM TASK 33-40 TASK 803 LED Landing and Runway Turnoff Lights - Fault Isolation

E. Fault Isolation Procedure - Inboard Array, Outboard Array or Runway Turnoff Light (RTO) Does Not Come On

(1) If the power supply (PS) OK indicator is ON;

NOTE: The PS OK indicator is a blue LED located on the RTO light assembly.

- (a) Replace the non-working array(s) or RTO.
- (b) If the light comes on, then you corrected the fault.

(2) If the power supply (PS) OK indicator is OFF;

NOTE: The PS OK indicator is a blue LED located on the RTO light assembly.

- (a) Replace the non-working arrays(s) or RTO.
- (b) If the light comes on, then you corrected the fault.
- (c) If the light does not come on, then continue.
- (d) Do a continuity check of the wire bundle between the power supply and the non-working array(s) or RTO.

4、MAX 飞机 IFIM 33-10-00-810-809 Wing landing lights do not operate correctly - left.

B. Initial Evaluation

(1) For the left landing and taxi light main array, do the Installation Test part of this task:

• Fixed Landing Light - Main Array Assembly Replacement, [AMM TASK 33-42-21-960-801](#).

- (a) If the system does not operate as specified in the AMM task, then do the Fault Isolation Procedure below.
- (b) If the system operates as specified in the AMM task, then there was an intermittent fault.

C. Fault Isolation Procedure

(1) Do this check of the voltage at the left LTRTL power supply:

- (a) Disconnect connector D15948 from the left LTRTL power supply, M3079.
- (b) Do a check for voltage between pin 4 and pin 7 of connector D15948 (WDM [33-42-21](#)). The correct voltage is 115 VAC.
- (c) If the correct voltage is not present, then do this check of the wiring:

5、MAX 飞机 IFIM 33-40-00-810-804 Runway turnoff light does not operate correctly - left.

B. Initial Evaluation

- (1) Monitor the left LTRTL RTO light while you do the next step.
- (2) Set the RUNWAY TURNOFF L switch (flight deck) to ON, and then set it to OFF.
- (3) If the left LTRTL RTO light did not operate correctly at each switch position, then do the Fault Isolation Procedure below.
- (4) If the left LTRTL RTO light operated correctly at each switch position, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Replace the left LTRTL RTO light, L1545. This is the task:
 - Runway Turnoff Light - Light Assembly Replacement, AMM TASK 33-42-21-960-803.
- (a) Set the RUNWAY TURNOFF L switch (flight deck) to ON, and then set it to OFF.
- (b) If the left LTRTL RTO light operated correctly at each switch position, then you corrected the fault.
- (c) If the left LTRTL RTO light did not operate correctly at each switch position, then continue.
- (2) Do this check of the voltage at the left LTRTL power supply:
 - (a) Disconnect connector D15948 from the left LTRTL power supply, M3079.

从 3、4、5 可以看出，NG 飞机 FIM 中可以通过 PS (power supply) 指示灯判断故障，而 MAX 飞机 IFIM 中并未提及，尽管其件号相同。

总结：在判断故障时，尽可能通过串件、量线确定故障源，避免因相同的故障现象而故障源不同造成判断不准确。