

# ITCF Light Engine and Power Supply PCB Parts Replacement Guide

## 1.0 Overview

The 3 Watt LEDs used in the original ITCF taxiway centerline in-pavement fixtures were obsoleted by the manufacturer. Newer, suitable replacement LEDs need to be driven at a different drive current than the original 3 Watt LEDs. Therefore:

1. If an original LED light engine assembly needs to be replaced, **BOTH** the LED light engine **AND** the light engine Transformer/Power Supply PCB assembly needs to be replaced.
2. If only an original Transformer/Power Supply PCB needs to be replaced, the light engine can be re-used. In this case, **ONLY** the Transformer/Power Supply PCB needs to be purchased. Contact your ADB SAFEGATE Sales representative for availability of Transformer/Power Supply PCB assemblies.

Below is detailed guidance on how to replace the parts.

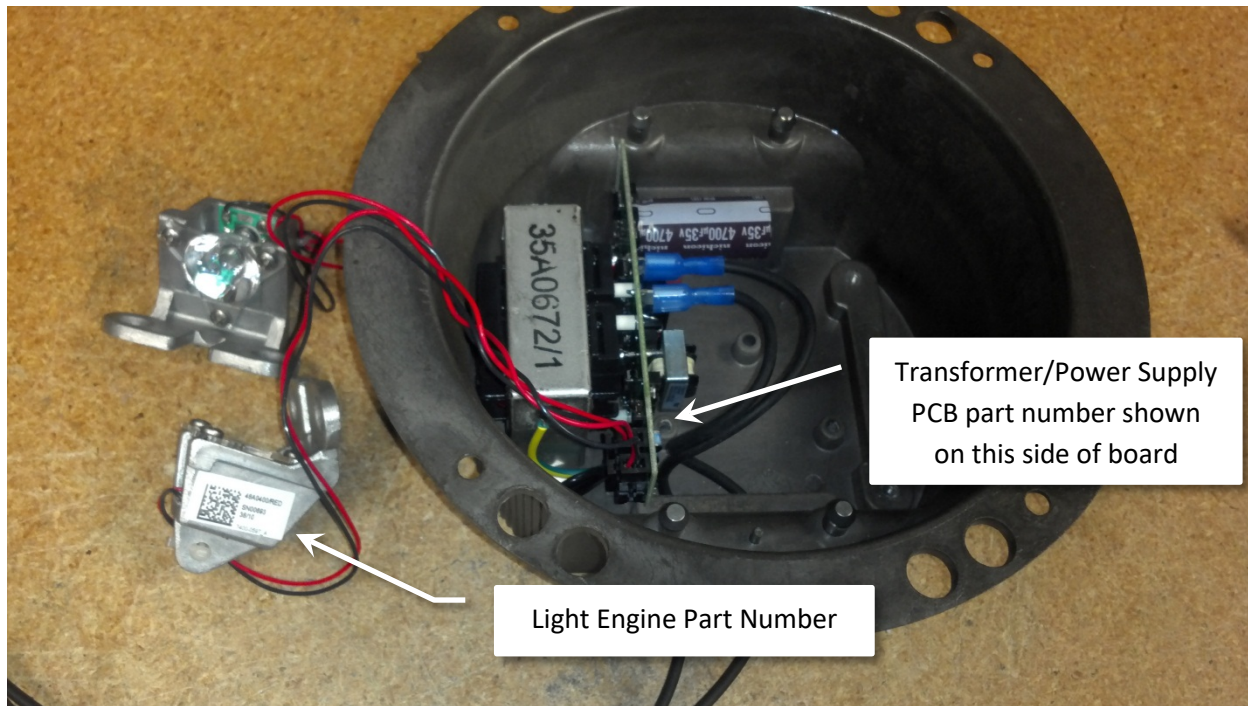
- For L-852A, B, C, J & N see Section 2.0.
- For L-852D and K, see Section 3.0

## 2.0 Replacement Guidance for L-852A, B, C, J & N

2.1 Identification of OLD NARROW BEAM light engine and Transformer/Power Supply PCB (for L-852A, B, C, J & N):

- ITCF/AXXX0, ITCF L-852A
- ITCF/BXXX0, ITCF L-852B
- ITCF/CXXX0, ITCF L-852C
- ITCF/JXXX0, ITCF L-852J
- 44A6777/xxxx, L-852N

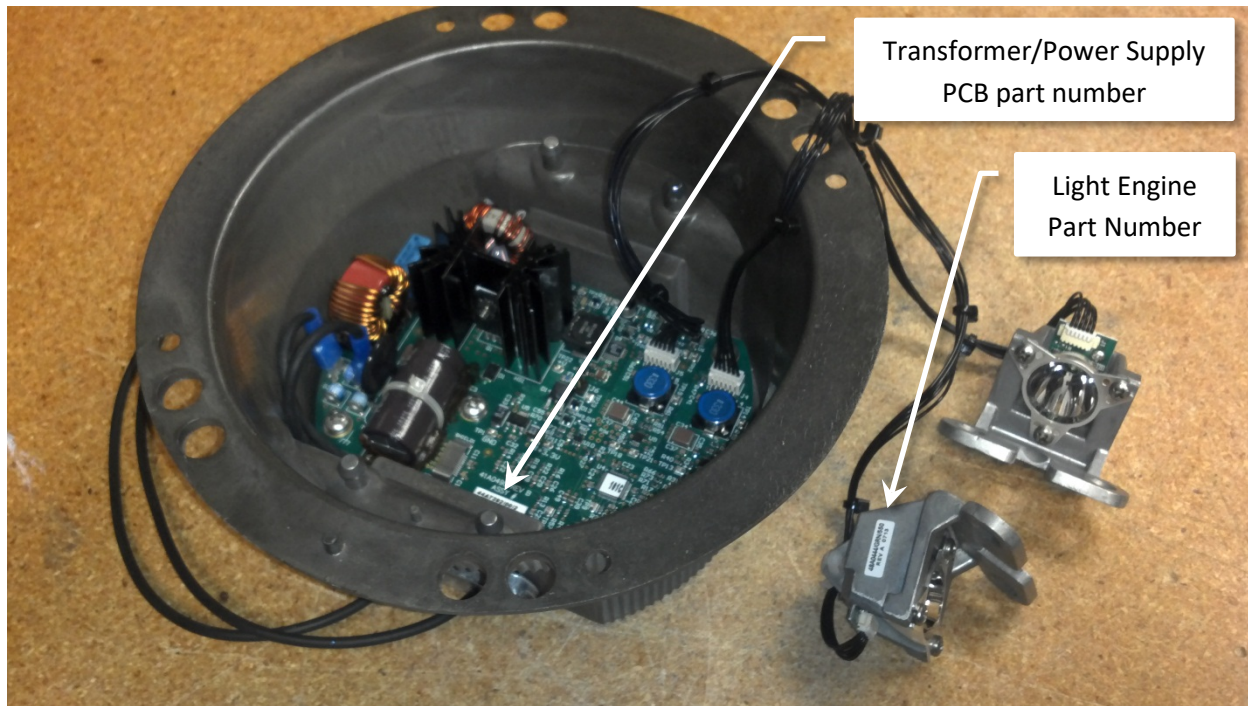
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2.2 Identification of NEW NARROW BEAM light engine and Transformer/Power Supply PCB (for L-852A, B, C & J):

- ITCF/AXXXX2, ITCF L-852A
- ITCF/BXXXX2, ITCF L-852B
- ITCF/CXXXX2, ITCF L-852C
- ITCF/JXXXX2, ITCF L-852J
- 44A6777/xxxx, L-852N

## ITCF Light Engine and Power Supply PCB Parts Replacement Guide



**When ordering spare parts for ITCF L-852A, B, C, J & N narrow beam fixtures check the Replacement Guide below for details on what parts to order and what parts to replace.**

### 2.3 Replacement Instructions

Directions on how to replace original LED light engine(s) and Transformer/Power Supply PCB with new light engine(s) and power supply PCB

- Remove the two screws holding transformer to inner pan assembly (the PCB will come out with transformer).
- Assemble new PCB power supply into inner pan with screws provided at boss locations already provided in bottom of inner pan.
- Remove the two screws holding the light engine to the top cover assembly.
- Assemble new light engine to the top cover assy with the same screws removed in step c).
- Plug white connector(s) on ends of new light engine cable to white receptacle on power PCB and new light engine.
- The first time the light is powered, the LED will flash several times. This is normal operation, as the PCB reading the light engine information and adjusting the drive current to the correct level depending on which light engine(s) are being driven.

**Table 1.0: L-852A, B, C, J & N Light Engine Replacement Guidance**

If you have to	Replacement Guidance
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## **ITCF Light Engine and Power Supply PCB Parts Replacement Guide**

<b>replace LED light engine part number:</b>	<b>Order LED light engine part number:</b>	<b>Also order and replace LED Transformer/Power Supply PCB with:</b>	<b>Also order wire harness : (order as many of these as light engines)</b>
48A0400/GRN in a L-852A or J single window fixture	48A0444/GRN/200 Green 200mA Light Engine	94A0667/1 Power Supply PCB and Hardware Spares Kit	44A7320/10 Wire Harness
48A0400/GRN in a L-852B or C single window fixture	48A0444/GRN/280 Green 280mA Light Engine	94A0667/1 Power Supply PCB and Hardware Spares Kit	44A7320/10 Wire Harness
48A0400/YLW in a L-852A, B, C or J single window fixture	48A0444/YLW/300 Yellow 300mA Light Engine	94A0667/1 Power Supply PCB and Hardware Spares Kit	44A7320/10 Wire Harness
48A0400/WHT in a L-852N single window fixture	48A0444/WHT/495 White 495mA Light Engine	94A0667/1 Power Supply PCB and Hardware Spares Kit	44A7320/10 Wire Harness
48A0400/GRN in a L-852A or J double window fixture	48A0444/GRN/200 Green 200mA Light Engine	94A0667/2 Power Supply PCB and Hardware Spares Kit	44A7320/10 Wire Harness
48A0400/GRN in a L-852B or C double window fixture	48A0444/GRN/280 Green 280mA Light Engine	94A0667/2 Power Supply PCB and Hardware Spares Kit	44A7320/10 Wire Harness
48A0400/YLW in a L-852A, B, C or J double window fixture	48A0444/YLW/300 Yellow 300mA Light engine	94A0667/2 Power Supply PCB and Hardware Spares Kit	44A7320/10 Wire Harness
48A0400/WHT in a L-852N double window fixture	48A0444/WHT/495 White 495mA Light Engine	94A0667/2 Power Supply PCB and Hardware Spares Kit	44A7320/10 Wire Harness
48A0400/RED in a L-852N double window fixture	48A0444/RED/640 Red 640mA Light Engine	94A0667/2 Power Supply PCB and Hardware Spares Kit	44A7320/10 Wire Harness
48A0444/GRN/495	48A0444/GRN/280	(reuse existing PCB power supply if it is OK)	44A7320/10 Wire Harness
48A0444/GRN/300	48A0444/GRN/200	(reuse existing PCB power supply if it is OK)	44A7320/10 Wire Harness
48A0444/GRN/350	48A0444/GRN/280	(reuse existing PCB power supply if it is OK)	44A7320/10 Wire Harness
48A0444/YLW/495	48A0444/YLW/300	(reuse existing PCB power supply if it is OK)	44A7320/10 Wire Harness
48A0444/WHT/495	48A0444/WHT/495	(reuse existing PCB power supply if it is OK)	44A7320/10 Wire Harness
48A0444/RED/640	48A0444/RED/640	(reuse existing PCB power supply if it is OK)	44A7320/10 Wire Harness

## ITCF Light Engine and Power Supply PCB Parts Replacement Guide

**Table 2.0: L-852A, B, C, J & N Transformer/Power Supply PCB Replacement Guidance**

If you have to replace LED Transformer/Power Supply PCB number:	Replacement Guidance	
	Order LED Transformer/Power Supply PCB number:	Notes
44A6698/1/1	44A6698/1/1	There is no need to replace light engine(s) if it is OK
44A6698/1/2	44A6698/1/2	There is no need to replace light engine(s) if it is OK
44A6698/2/2	44A6698/2/2	There is no need to replace light engine(s) if it is OK
44A6698/3/1	44A6698/3/1	There is no need to replace light engine(s) if it is OK
44A6698/3/2	44A6698/3/2	There is no need to replace light engine(s) if it is OK
44A6698/4/1	44A6698/4/1	There is no need to replace light engine(s) if it is OK
44A6698/4/2	44A6698/4/2	There is no need to replace light engine(s) if it is OK
44A6970/7	94A0691/7 Power Supply PCB and Hardware Spares Kit	There is no need to replace light engine(s) if it is OK
44A6970/8	94A0691/8 Power Supply PCB and Hardware Spares Kit	There is no need to replace light engine(s) if it is OK
44A7257/7	44A7257/7	There is no need to replace light engine(s) if it is OK
44A7257/8	44A7257/8	There is no need to replace light engine(s) if it is OK
44A7292/00/1	94A0667/1 Power Supply PCB and Hardware Spares Kit	There is no need to replace light engine(s) if it is OK
44A7292/00/2	94A0667/2 Power Supply PCB and Hardware Spares Kit	There is no need to replace light engine(s) if it is OK

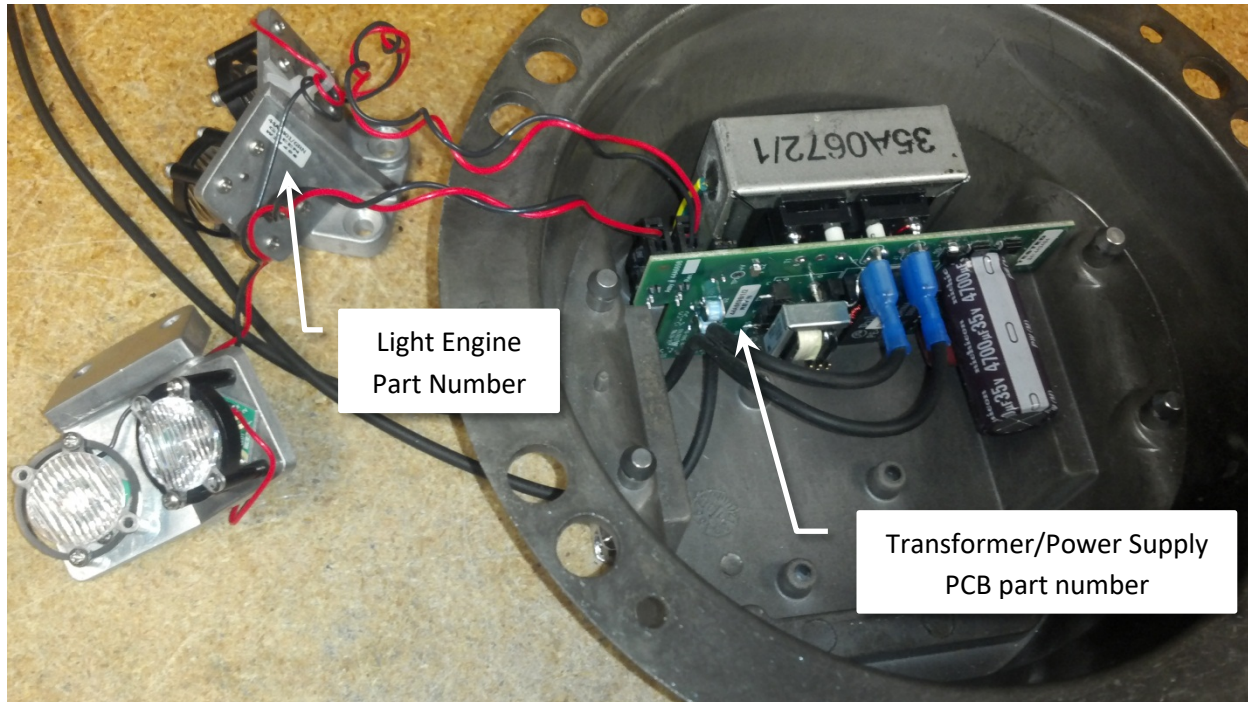


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## 3.0 Replacement Guidance for L-852D and K

3.1 Identification of OLD WIDE BEAM light engine and Transformer/Power Supply PCB (for L-852D & K):

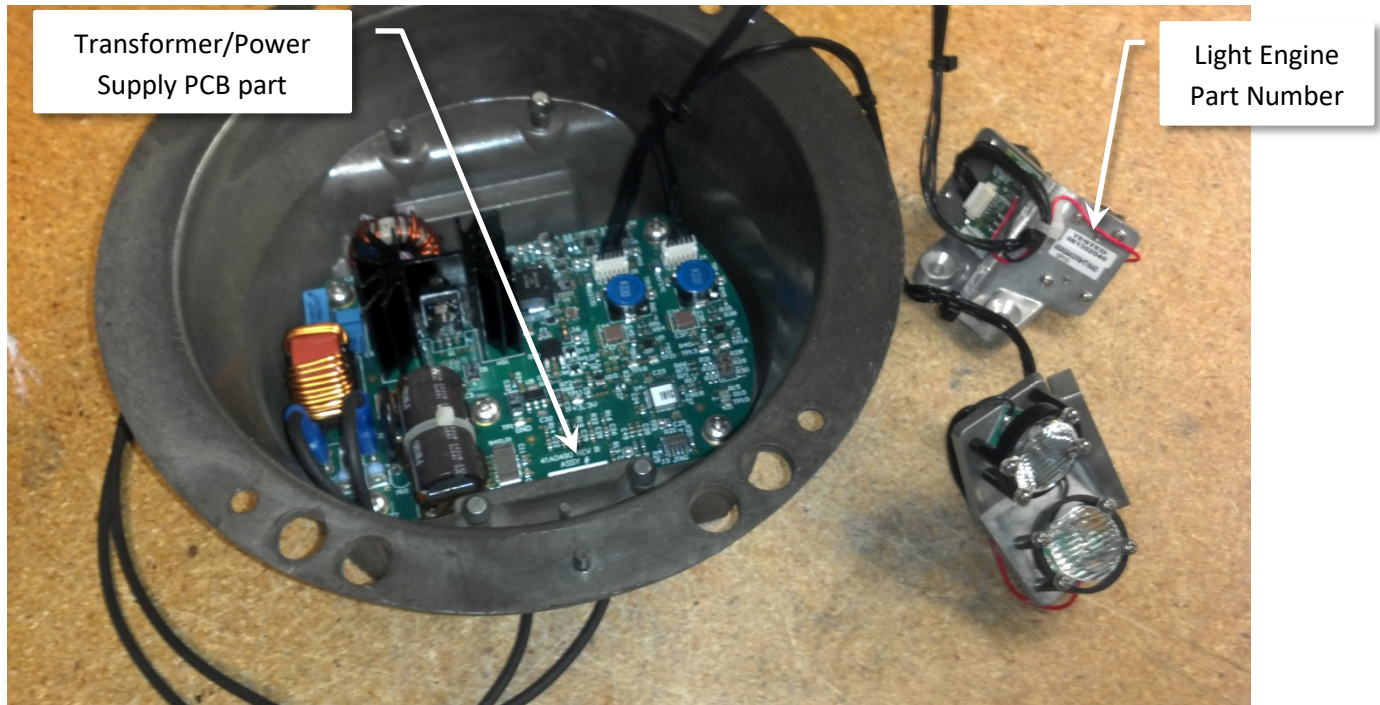
- ITCF/DXXXX0, ITCF L-852D
- ITCF/KXXXX0, ITCF L-852K



## ITCF Light Engine and Power Supply PCB Parts Replacement Guide

### 3.2 Identification of NEW WIDE BEAM light engine and Transformer/Power Supply PCB (for L-852D & K):

- ITCF/DXXXX2, ITCF L-852D
- ITCF/KXXXX2, ITCF L-852K



**When ordering spare parts for ITCF L-852D & K wide beam fixtures check the Replacement Guide below for details on what parts to order and what parts to replace.**

### 3.3 Replacement Instructions

Directions on how to replace original light engine(s) and power transformer/PCB with new light engine(s) and power PCB

- Remove the two screws holding the transformer to the inner pan assembly (the PCB will come out with transformer).
- Assemble the new PCB power supply into the inner pan with the screws provided at the boss locations already provided in the bottom of inner pan.
- Remove the two screws holding the light engine to the top cover assy.
- Assemble the new light engine to the top cover assy with the same screws removed in c).
- Plug the white connector(s) on the ends of the new light engine cable to the white receptacle on

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the power supply PCB and the new light engine.

- f) The first time the light is powered, the LED will flash several times. This is normal operation, as the PCB reading the light engine information and adjusting the drive current to the correct level depending on which light engine(s) are being driven.

**Table 3.0: L-852D, K Light Engine Replacement Guidance**

<b>If you have to replace LED light engine part number:</b>	<b>You need order LED light engine part number:</b>	<b>You will also need to order and replace LED transformer/power PCB with:</b>	<b>You will also need wire harness : (you will need as many of these as light engines)</b>
48A0401/GRN in a single window fixture	48A0443/GRN/300 Green 300mA Light Engine	94A0667/1 Power Supply PCB and Hardware Spares Kit	44A7320/10 Wire Harness
48A0401/YLW in a single window fixture	48A0443/YLW/500 Yellow 500mA Light engine	94A0667/1 Power Supply PCB and Hardware Spares Kit	44A7320/10 Wire Harness
48A0401/WHT in a single window fixture	48A0443/WHT/640 White 640mA Light engine	94A0667/1 Power Supply PCB and Hardware Spares Kit	44A7320/10 Wire Harness
48A0401/GRN in a double window fixture	48A0443/GRN/300 Green 300mA Light Engine	94A0667/2 Power Supply PCB and Hardware Spares Kit	44A7320/10 Wire Harness
48A0401/YLW in a double window fixture	48A0443/YLW/500 Yellow 500mA Light engine	94A0667/2 Power Supply PCB and Hardware Spares Kit	44A7320/10 Wire Harness
48A0401/WHT in a double window fixture	48A0443/WHT/640 White 640mA Light engine	94A0667/2 Power Supply PCB and Hardware Spares Kit	44A7320/10 Wire Harness
48A0401/GRN-LS in a single window fixture	48A0401/GRN-LS Green Rebel LED light engine	(use existing PCB power supply)	(none required)
48A0401/YLW-LS in a single window fixture	48A0401/YLW-LS Yellow Rebel LED light engine	(use existing PCB power supply)	(none required)
48A0401/WHT-LS in a single window fixture	48A0401/WHT-LS White Rebel LED light engine	(use existing PCB power supply)	(none required)
48A0401/GRN-LS in a double window fixture	48A0401/GRN-LS Green Rebel LED light engine	(use existing PCB power supply)	(none required)
48A0401/YLW-LS in a double window fixture	48A0401/YLW-LS Yellow Rebel LED light engine	(use existing PCB power supply)	(none required)



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<b>If you have to replace LED light engine part number:</b>	<b>You need order LED light engine part number:</b>	<b>You will also need to order and replace LED transformer/power PCB with:</b>	<b>You will also need wire harness : (you will need as many of these as light engines)</b>
48A0401/WHT-LS in a double window fixture	48A0401/WHT-LS White Rebel LED light engine	(use existing PCB power supply)	(none required)
48A0443/GRN/640	48A0443/GRN/300	(use existing PCB power supply)	44A7320/10 Wire Harness
48A0443/YLW/640	48A0443/YLW/500	(use existing PCB power supply)	44A7320/10 Wire Harness
48A0443/GRN/500	48A0443/GRN/300	(use existing PCB power supply)	44A7320/10 Wire Harness

**Table 4.0: L-852D, K Transformer/Power Supply PCB Replacement Guidance**

<b>If you have to replace LED Transformer/Power Supply PCB number:</b>	<b>Replacement Guidance</b>	
	<b>You need to order LED Transformer/Power Supply PCB number:</b>	<b>Notes</b>
44A6698/1/1	44A6698/1/1	There is no need to replace light engine(s) if it is OK
44A6698/1/2	44A6698/1/2	There is no need to replace light engine(s) if it is OK
44A6698/2/2	44A6698/2/2	There is no need to replace light engine(s) if it is OK
44A6698/3/1	44A6698/3/1	There is no need to replace light engine(s) if it is OK
44A6698/3/2	44A6698/3/2	There is no need to replace light engine(s) if it is OK
44A6698/4/1	44A6698/4/1	There is no need to replace light engine(s) if it is OK
44A6698/4/2	44A6698/4/2	There is no need to replace light engine(s) if it is OK
44A6970/7	94A0691/7 Power Supply PCB and Hardware Spares Kit	There is no need to replace light engine(s) if it is OK
44A6970/8	94A0691/8 Power Supply PCB and Hardware Spares Kit	There is no need to replace light engine(s) if it is OK
44A7257/6	44A7257/6	There is no need to replace light engine(s) if it is OK
44A7257/7	44A7257/7	There is no need to replace light engine(s) if it is OK
44A7292/00/1	94A0667/1	There is no need to replace light engine(s) if it is OK

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44A7292/00/2	94A0667/2	There is no need to replace light engine(s) if it is OK
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