



# Installation Instructions

## Sync Circuit



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Approval	Name	Intent	
Author	Jennifer Blanchfield	Installation and operation instructions for the Sync Circuit	
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Date:	23 September 2020		
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## **REVISION RECORD**

Rev	Description	Date	Author
C	Image updates	09/23/2020	J. Blanchfield
B	Instruction, Image, and Diagram updates	07/17/2020	J. Blanchfield
A	Updated to standard format and new design	10/21/2019	R. Prew
IR	Initial Release	03/13/2016	M. D'Amico

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# 1 System Description

The Sync Circuit is used to synchronize pulse features when using multiple lights, this becomes especially important when lights are in close proximity. This circuit can be used to increase visibility of lights by creating synchronized flashing. It is for use between any two wigwag lights to increase safety via visibility.

# 2 Model Number

Part Number	Description
00-8120	Synchronizer Circuit

# 3 Installation

This document is for multiple light installations that have built-in recognition function where synchronized flashing (Pulse) is desired over alternating flash (WigWag).

## 3.1 Functionality

1. Synchronizer Circuit is to be wired between multiple lights that have integrated Wig-Wag functionality
2. Synchronizer circuit will enable lights to pulse in unison, rather than alternating between pairs

## 3.2 Dual Light Installation

1. Connect Black wire from synchronizer circuit to aircrafts ground bus
2. Connect Green wire from one light to Blue wire of synchronizer circuit
3. Cap and Stow unused blue and green wires

## 3.3 Quad Light Installation

1. Four light installation in which two wing lights synchronize with one another and two cowl lights synchronize with one another (Figure 3-1)
2. Four light installation will require two Synchronizer Circuits (see diagram Figure 4-2)

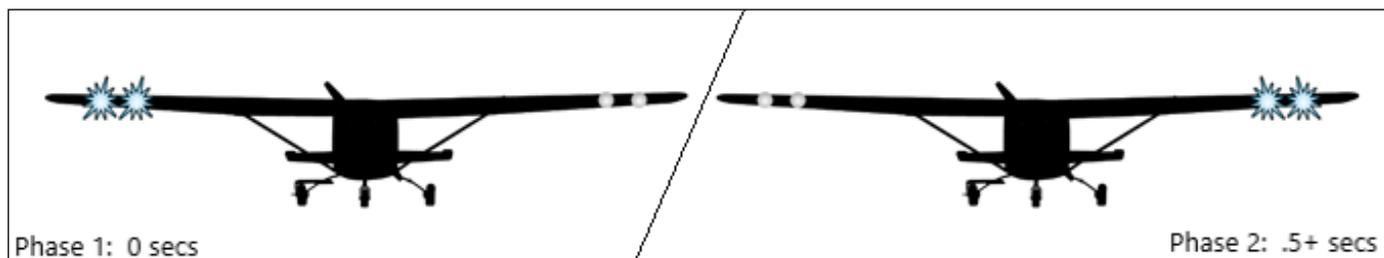


Figure 3-1

## 4 Wiring Diagrams

### 4.1 Wiring Diagram for Dual Lights with Pulse

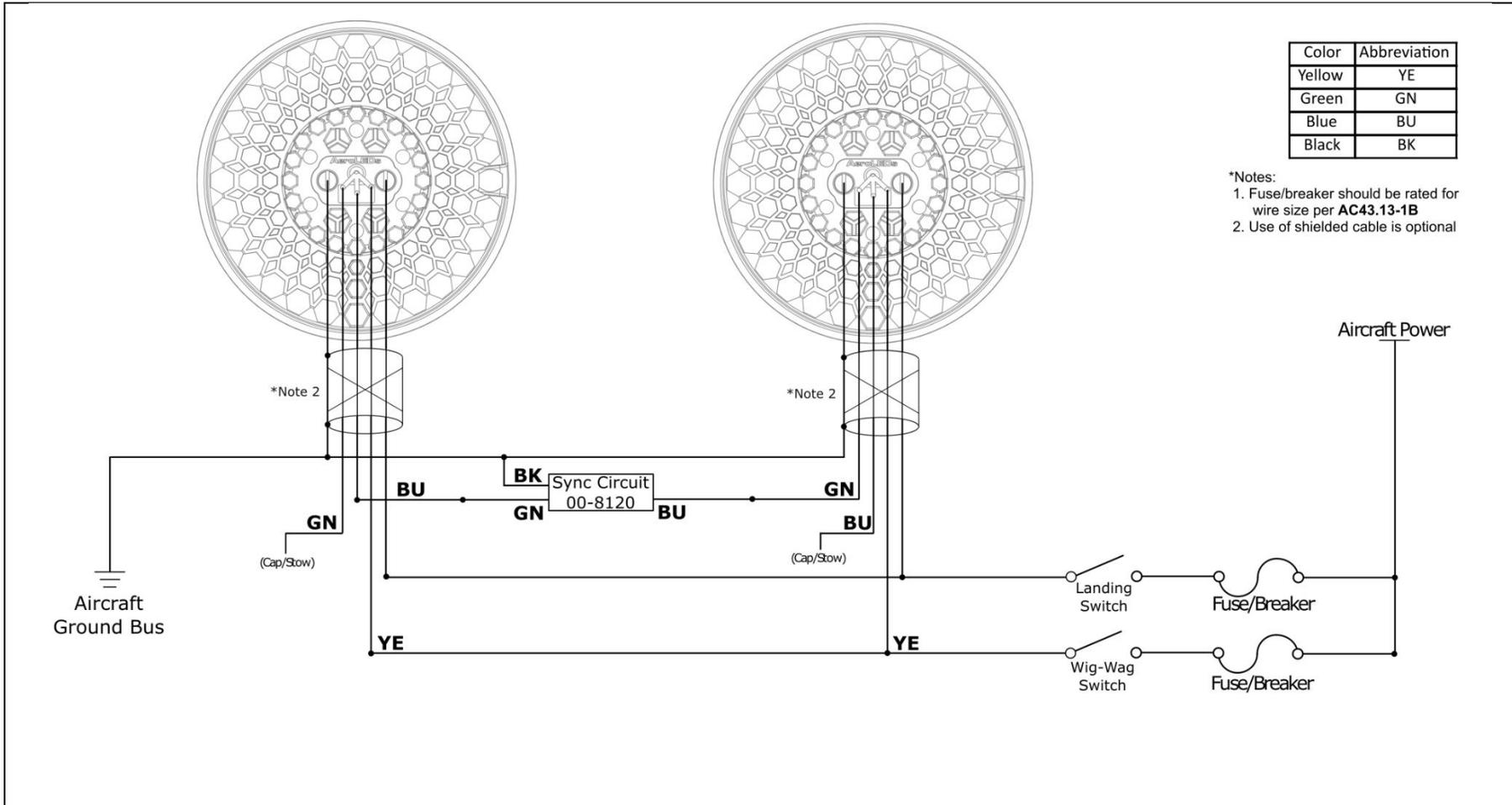


Figure 4-1

## 4.2 Quad Light Wiring Diagram

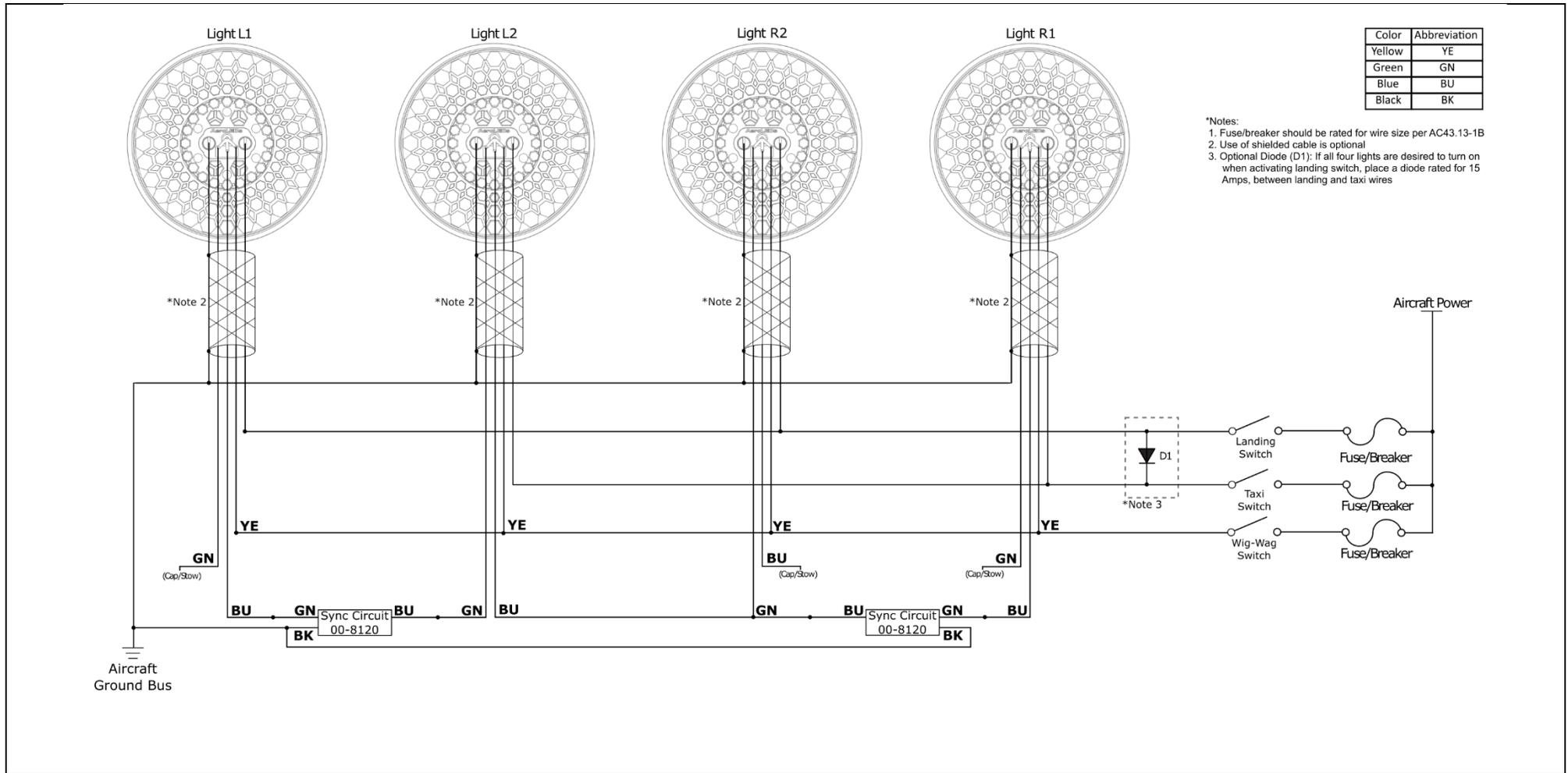


Figure 4-2