

The logo for Kelly Aerospace Thermal Systems features a stylized red square icon on the left, composed of geometric shapes. To its right, the word "KELLY" is written in a bold, sans-serif font. Below "KELLY", the word "AEROSPACE" is written in a larger, bold, sans-serif font. Underneath "AEROSPACE", the words "Thermal Systems" are written in a bold, sans-serif font, with "Thermal" and "Systems" on separate lines.

# KELLY AEROSPACE

## Thermal Systems

Document Number: NC-16-015  
Baron [55, 56 & 58](#)  
Title: Air Conditioning System  
Weight & Balance  
Revision: B  
Date: 1/23/2020

	Name	Signature	Date
Author	Eric Farmer	On File	3/27/2017
Approved	Jeff Barlett	On File	3/27/2017

## Revisions

Rev.	Description	Author	Date	Approved
A	Initial Release (ECN 15-016)	Eric Farmer	3/27/2017	Jeff Barlett
B	(ECN 19-063) Change title, was "Baron 58, 58A & G58 ....." Add weight and balance information for Short Duct Installation, Long Duct Installation and Cabin Inlet Duct Installation	Eric Farmer	1/23/2020	Jeff Barlett

Kelly Aerospace, Thermal Systems Division 1625 Lost Nation Rd Willoughby, Ohio 44094 PH: 440-951-4744

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## 1.0 WEIGHT AND BALANCE SUMMARY

Weight and Balance for the kits was determined through kit weight measurement, initial weighing and final weighing of the aircraft with approved calibrated scales.

### 1.1 Aircraft Model Baron 55, 56 & 58

Kit Number KATS-16-002 without [Short Duct Installation or Long Duct Installation or Evaporator Inlet Extender Assembly](#) and no change in alternator power source.

KATS-16-002 WEIGHT = 64.0 lbs.

KATS-16-002 MOMENT ARM = 210.7 in.

KATS-16-002 MOMENT = 13485.6 in-lbs.

[Short Duct Installation \(Reference NC-20-001\)](#)

KATS-16-002 Short Duct WEIGHT = 1.7 lbs.

KATS-16-002 Short Duct MOMENT ARM = 180.3 in.

KATS-16-002 Short Duct MOMENT = 306.5 in-lbs.

[Long Duct Installation \(Reference NC-20-011\)](#)

KATS-16-002 Long Duct WEIGHT = 6.9 lbs.

KATS-16-002 Long Duct MOMENT ARM = 150.2 in.

KATS-16-002 Long Duct MOMENT = 1036.4 in-lbs.

[AC-02075 Cabin Inlet Duct Installation \(Reference NC-20-001\)](#)

KATS-16-002 Cabin Inlet Duct WEIGHT = 1.9 lbs.

KATS-16-002 Cabin Inlet Duct MOMENT ARM = 180.0 in.

KATS-16-002 Cabin Inlet Duct MOMENT = 342.0 in-lbs.

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