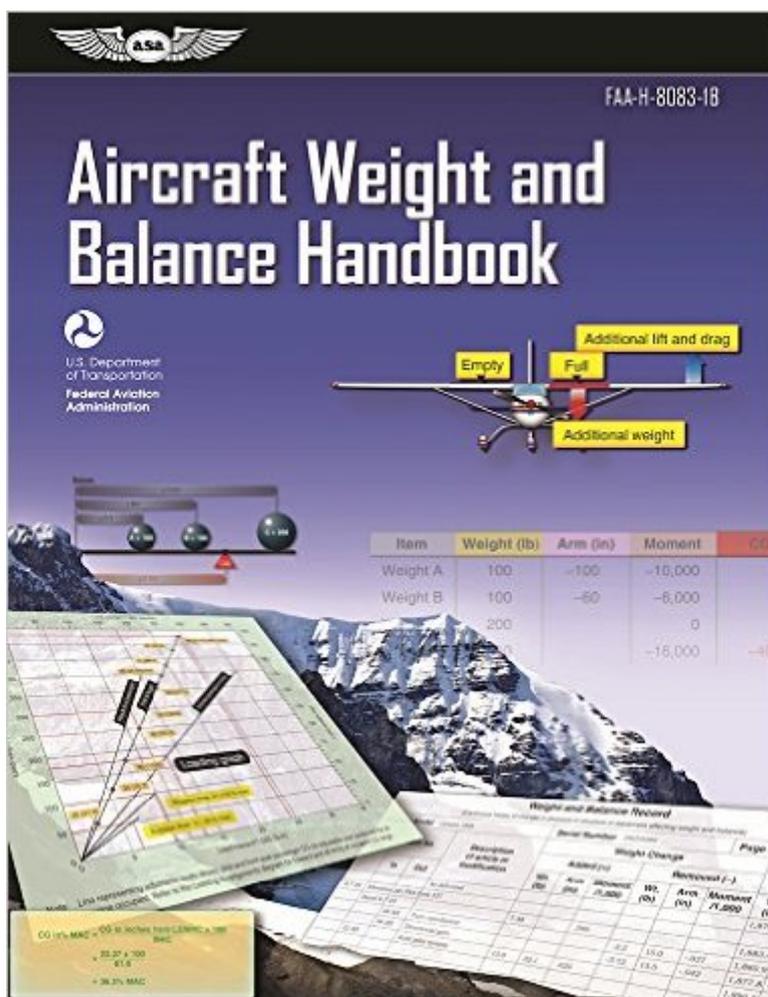


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# Aircraft Weight And Balance Handbook: FAA-H-8083-1B (FAA Handbooks Series)



## Synopsis

Weight and balance is an important aspect to the safety of flight. An overweight aircraft, or one whose center of gravity is outside the allowable limits, is inefficient and dangerous to fly. The responsibility for proper weight and balance control begins with the engineers and designers, and extends to the pilot and mechanic who flies and maintains the aircraft. This Federal Aviation Administration (FAA) publication addresses this safety-crucial topic and in studying this handbook, pilots and Aviation Maintenance Technicians (AMTs) will gain the necessary knowledge on the subject of aircraft weight and balance, in preparation for the FAA Knowledge Exam as well as safe flight and maintenance operations. Basic aircraft weight and balance control principles and procedures for the preparation, and the actual weighing of an aircraft start the discussion, including the methods of determining the location of the empty weight center of gravity. Loading computations with loading graphs and tables of weight and moment indexes follow, including instructions on determining the weight and center of gravity changes caused by repairs and alterations or removal and installation of equipment. Chapters are dedicated to light-sport aircraft, single-engine aircraft, multi-engine aircraft, and commuter and large aircraft, as well as helicopter weight and balance control and determining lateral CG. Also included are examples of solving weight and balance problems using a hand-held electronic calculator, E6-B flight computer, and a dedicated electronic flight computer. This 2016 Edition reflects the latest aviation industry procedures, equipment, techniques, regulations, and is a key reference in the FAA Airman Certification Standards (ACS). Illustrated throughout with detailed, full-color drawings, and includes a glossary and index.

## Book Information

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Reference

## Customer Reviews

Made by FAA, this book is very good, explain well all thing about Weight and Balance. I really recommend this book. But remember that is free via FAA website, just buy if you want a paper version.

Going through the A&P certification courses. Had a bit of trouble with the required reading portion of the book relating to W&B. Bought this book as supplemental info, and it came in handy!

This book is great for learning more about weight and balance. It may go into more detail than is needed but it is an excellent supplement to your studies and by reading it you will benefit.

A must own if you are in school taking a WnB class, or if you plan to do any WnB tasks for experimental, etc. Very well written with great illustrations!

The stories in this FAA publication are riveting. Highly recommended to read while enjoying a nice bourbon! Almost brought me to tears!

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