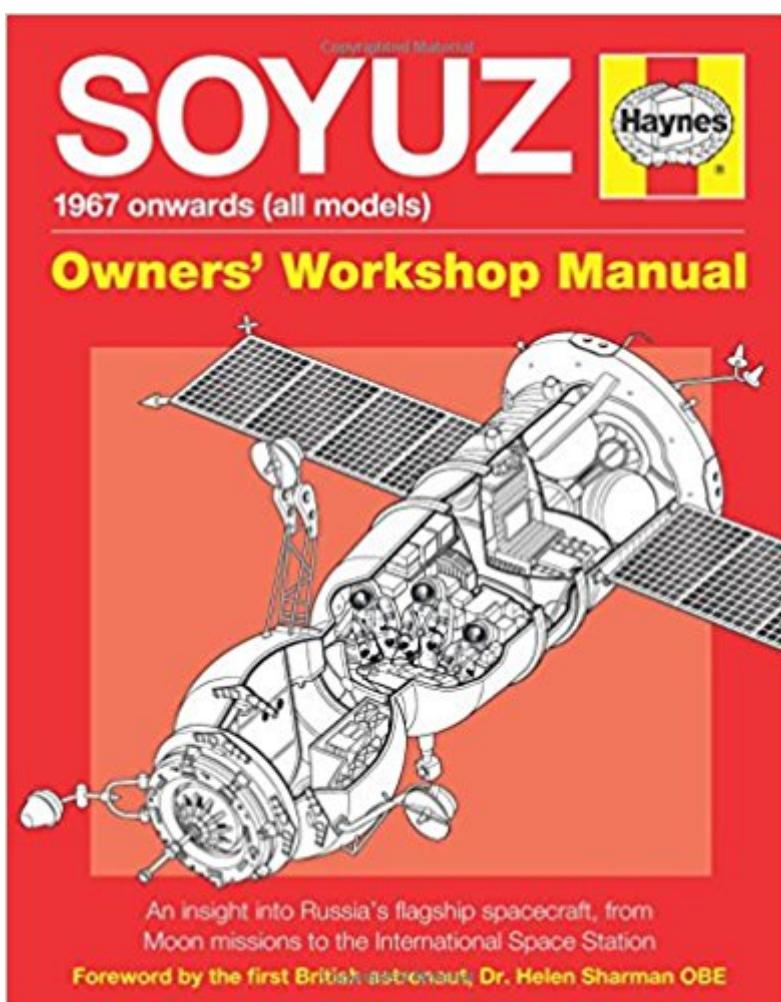


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# **Soyuz Owners' Workshop Manual: 1967 Onwards (all Models) - An Insight Into Russia's Flagship Spacecraft, From Moon Missions To The International Space Station**





## Synopsis

The Soyuz spacecraft played a major role in Russia's plans for a manned landing on the Moon and several test models were flown at the height of the 'space race'. Originally designed for circumlunar flight, Soyuz has been the mainstay of Russia's space program.

## Book Information

Series: Owners' Workshop Manual

Hardcover: 176 pages

Publisher: Haynes Publishing UK (October 1, 2014)

Language: English

ISBN-10: 0857334050

ISBN-13: 978-0857334053

Product Dimensions: 8.5 x 0.6 x 11 inches

Shipping Weight: 1.1 pounds (View shipping rates and policies)

Average Customer Review: 4.4 out of 5 stars 21 customer reviews

Best Sellers Rank: #173,293 in Books (See Top 100 in Books) #71 in Books > Engineering & Transportation > Transportation > Aviation > History #76 in Books > Engineering & Transportation > Engineering > Aerospace > Astronautics & Space Flight #107 in Books > Textbooks > Engineering > Aeronautical Engineering

## Customer Reviews

Dr. David Baker worked with NASA on the Gemini, Apollo and Shuttle programmes between 1965 and 1990. He has written more than 80 books on spaceflight technology and is the author of the Haynes NASA Space Shuttle Manual, International Space Station Manual, NASA Mars Rovers Manual, Apollo 13 Manual, Soyuz Manual, Rocket Manual and forthcoming Hubble Space Telescope Manual. He lives in East Sussex.

After David Baker's super-detailed Haynes manuals on NASA's Mars Rovers and the Apollo 13 missions, I had high expectations for this book. I've been a little letdown by Haynes' offerings this last year, but this volume on Russia's flagship manned spacecraft is a step in the right direction. The first quarter provides a concise history of the early Soviet manned space program, including the Vostok and Voskhod missions, and the development of the Soyuz spacecraft. The remainder is a technical history of Soyuz, focusing on the continued design and development of the different Soyuz variants, its role in the abortive Russian moon landing program, its potential military applications,

and its current role as an orbital taxi cab. The highlight of this book are the four technical features, including a 30-page technical description of the modern Soyuz TMA-M, a look at rendezvous and docking techniques, a brief history of the Apollo-Soyuz Test Project, and a summary of the Progress cargo freighter. These parts are really the meat of the book - the bits that make it a "workshop manual" and not just a decent history. Dozens of detailed technical drawings from the original Soyuz manuals are included, along with close-up views of spacecraft components and detailed descriptions of how the different systems work. Overall, the Soyuz "workshop manual" makes a very good, although not superb, inclusion into the rather small library of English-language books on the Soviet & Russian manned space program. Visually, the book is superb, with plenty of line drawings, diagrams, historical photographs, specially created CGI illustrations, and color views of Soyuz hardware. David Baker's writing has improved over the years, and he strikes a good balance between historical background and technical details here. My main gripe is that it ends rather abruptly - the focus here mainly being on the early years of the Soyuz program, the last 28 years getting a 9-page wrap-up at the end. This might be a reflection of the craft's overall reliability, or of editorial constraints on the part of Haynes. Recommended, with a couple of minor reservations, for serious manned spaceflight buffs.

Many Great photos, diagrams and details of space craft. There are a few details shown in Russian language too, The History of the Soyuz is covered from start to finish. It included the wiring Diagram of the Spacecraft on page 81-I added common USA Electrical text description to diagram on the attached Photo. I was looking for this Electrical Diagram on the internet and could not find it-so I was glad it was in this Book...It also included the rocket system of the launch vehicle.I understand a lot of information was secret back in the day and some parts may still be secret- so it hard to get information that makes sense. This book did a great job with the information available. It's simple and easy to read. If you are looking for a lot of detail information of each system this is not that kind of book. It's general in nature but at an adult level.I worked on the Apollo spacecraft as a Electronic/electrical Technician and later as an research engineer. I wanted to compare their spacecraft with ours. I attached a photo of me by Apollo 15 at the Downey Apollo factory taken in April of 1967.It is interesting- this Soyuz spacecraft was design to go to the moon but never made it. But 900 of these vehicles were made and are still being made to service the International Space Station while our Apollo spacecraft and Space Shuttle are in museums. Oh Well.Anyway this book is excellent.

I'm only in the middle of reading it (though I have scanned ahead), so I'll reserve a full critique. However, I've already learned an enormous amount about this enduring workhorse spacecraft and anticipate learning a lot more before I'm finished. In scanning the rest, it seems to present much less about Salyut and particularly MIR than might be desired, though to be fair those are distinct spacecraft that I'd be pleased to see get their own volume(s). At that, this one dovetails nicely into the volume already available on the ISS (which does go some into MIR, but not nearly enough)..

**Soyuz Owner's Workshop Manual**As an enthusiastic reader of the Owner's Workshop Manual NASA Mars Rovers, I had great expectations about the book. First, let's start by the positive aspects. They are many photos, of good quality, as well as many schematics and functional diagrams, with some needed Latin characters transcription. Also, units are translated in metric units, when needed. There is here a lack of consistency, the Soyuz having been designed in metrics, this should be the unit of reference for this text, to avoid rounding problems and the imperial units be provided in parenthesis for readers using imperial units. The book is written in a narrative style. The first 67 pages are devoted to the history of the soviet space program. The Soyuz development is described in details, but it fails to give a clear view of the evolution of the design, a simple flowchart, as found in other books would have helped. Missing are, recap tables, with a list of all Soyuz launches, with date, model number, launch weight, and the specific of the mission, and the docking target, when appropriate. This has to be extracted from the text. Also, some comparison table with a spec sheet of the different models and variants would have been of help. Globally, an interesting book, they are not that many available in english on the subject.

The Soyuz is such an important piece of space history and even to this day we rely heavily on it after the retirement of the space shuttle. This book does a good job of giving you insight into this program and how it has progressed through the years. I highly recommend supplementing this book with others about the Russian space program as this book only goes over a small portion of their very interesting history

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