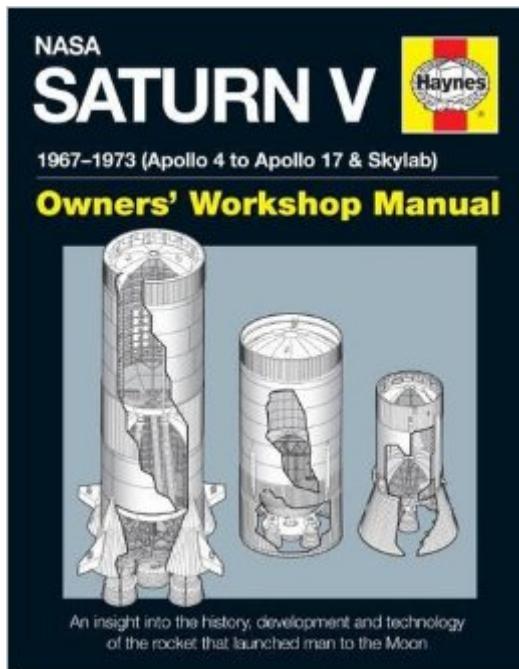


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# **NASA Saturn V 1967-1973 (Apollo 4 To Apollo 17 & Skylab) (Owners' Workshop Manual)**



## Synopsis

Few launch vehicles are as iconic and distinctive as NASA's behemoth rocket, the Saturn V, and none left such a lasting impression on those who watched it ascend. Developed with the specific brief to send humans to the Moon, it pushed rocketry to new scales. Its greatest triumph is that it achieved its goal repeatedly with an enviable record of mission success. Haynes' Saturn V Manual tells the story of this magnificent and hugely powerful machine. It explains how each of the vehicle's three stages worked; Boeing's S-IC first stage with a power output as great as the UK's peak electricity consumption, North American Aviation's S-II troubled second stage, Douglas's workhorse S-IVB third stage with its instrument unit brain - as much a spacecraft as a rocket. From the decision to build it to the operation of its engines' valves and pumps, this lavishly illustrated and deeply informative book offers a deeper appreciation of the amazing Saturn V.

## Book Information

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## Customer Reviews

After the Saturn V received a measly two pages in 2015's somewhat disappointing Rocket manual, I was hoping it would eventually receive the full-blown Haynes treatment. My wish has finally been answered. This entry in their "Owners' Workshop Manual" is nicely detailed, beautifully illustrated, and yet another excellent work from W David Woods, who is rapidly becoming one of my favorite space historians. Each stage and motor receives its own chapter, as does the Skylab space station. For a technical reference, it's shockingly readable, without dumbing down the subject matter. In

essence, this book is a greatly expanded version of the Saturn V sections of Woods' own How Apollo Flew to the Moon, combined with the familiar Haynes manual format. This isn't a bad thing per se - if it ain't broke, don't fix it! Despite the novelty format, I really enjoyed reading about many of the more obscure features of this historic launch vehicle. We see how helium was introduced into the LOX prevalues of the S-IC to suppress pogo and prevent vaporization and geysering. We learn how an ingenious oxygen/hydrogen burner was used to re-pressurize the S-IVB's propellant tanks prior to TLI. There are detailed technical descriptions of the F-1 and J-2 motors, accompanied by excellent diagrams and close-up photographs. Even the Instrument Unit receives its own chapter, complete with explanations of how its environmental control system, guidance platform, computer, and Emergency Detection System worked. Visually, this book is a home run. The photographs are numerous, well-chosen, and frequently spectacular.

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