



# **20th Century NASA History:**

## **Project Mercury Familiarization Manual**

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**World Spaceflight News**  
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# Mercury Familiarization Manual

**Raffaella Di Napoli**



## **Mercury Familiarization Manual:**

**20th Century NASA History** World Spaceflight News Staff,2001-01-01      **Project Mercury Familiarization Manual**  
**Manned Satellite Capsule** NASA,2011-05-01 On October 4 1957 at 10 28 Moscow time a rocket carrying the world's first orbiting satellite roared into space signaling a new era in human history and the beginning of the so called space race an epic rivalry pitting the technological know how of the Soviet Union against that of the United States Despite some highly publicized failures the USA managed to answer the Russians with the successful launch of Explorer 1 in January of 1958 The next major milestone would be to put a human into orbit a goal that defined the USA's Project Mercury After a long series of test launches including a sub orbital flight with the chimp Ham on board Mercury astronaut Alan Shepard became the first American in space On May 5 1961 Shepard rode a Redstone rocket into space for a sub orbital flight that lasted under 16 minutes Nine months later John Glenn's Friendship 7 capsule was launched into space atop an Atlas booster and Glenn became the first American to orbit the earth Glenn remained in space for nearly five hours and circled the planet three times While these flights represented enormous achievements neither was an outright space race victory cosmonaut Yuri Gagarin's orbital flight of April 12 1961 earned him the title of first man in space and first man to orbit the Earth Designed by brilliant engineer Max Faget and a team at NASA the Mercury space capsule represented an entirely new class of vehicle Just large enough for a single astronaut the joke about the cramped capsule was that it was worn not ridden Despite reports otherwise the capsule could be and was flown by astronauts who had attitude control thrusters at their disposal and a window for viewing The capsule also boasted manual re entry controls Created by NASA and contractor McDonnell Aircraft this Familiarization Manual explains all the systems aboard the Mercury space capsule including cabin controls environmental and stabilization controls and systems launch and re entry sequence procedures and navigation and communications equipment and procedures Dating from June of 1962 it represents a late revision of documents created at the beginning of the Mercury program Originally restricted this manual has been declassified and is presented in its entirety running nearly 400 pages      *Project Mercury Familiarization Manual* United States. National Aeronautics and Space Administration,McDonnell Aircraft Corporation,1961      **Project Mercury Familiarization Manual** United States. National Aeronautics and Space Administration,McDonnell Aircraft Corporation,1959      *Project Mercury Familiarization Manual* ,  
*Project Mercury Familiarization Manual* United States. National Aeronautics and Space Administration,McDonnell Aircraft Corporation,1959      **Mercury Familiarization Manual SEDR-104-3** United States. National Aeronautics and Space Administration,McDonnell Aircraft Corporation,1962      *Project Mercury Familiarization Manual* United States. National Aeronautics and Space Administration,McDonnell Aircraft Corporation,1962      *Mercury Project Summary* Manned Spacecraft Center (U.S.),1963      *Guide to the Johnson Space Center History Archive (1952-1980) in the Woodson Research Center, Rice University* Janet Kovacevich,Woodson Research Center,1984      **Exploring the Unknown, Volume VII, NASA**

**SP-2008-4407, 2008, \***,2009      **Spaceshots and Snapshots of Projects Mercury and Gemini** John Bisney,J. L. Pickering,2016-04-25 The race to space between the United States and the Soviet Union captured the popular imagination On April 12 1961 the USSR launched cosmonaut Yuri Gagarin on a one orbit flight making him the first human in space Three weeks later American astronaut Alan B Shepard Jr flew 116 miles above Earth before splashing down in the Bahamas Over the next twenty years astronauts emerged as national heroes This book tells the story of the people and events of Projects Mercury and Gemini with hundreds of unpublished and rare photographs both color and black and white Unlike other publications which illustrate the space race with well known and easily accessible images this history draws from the authors private library of over one hundred thousand and growing high quality photos of the early US manned space program Collected over a lifetime from public and private sources including NASA archives fellow collectors retired NASA and news photographers and auction houses the images document American space missions of the Cold War era more comprehensively than ever before Devoting a chapter to each flight the authors also include detailed descriptions providing new insight into one of America s greatest triumphs      **Technical History of the Environmental Control System for Project Mercury** Frank H. Samonski,1967      **Exploring the Unknown** ,1995      **NASA Technical Note** ,1968

**Manual ...** United States. Navy Department. Bureau of Ships,1943      *Bureau of Ships Manual* United States. Navy Department. Bureau of Ships,1955      **Mercury project summary** United States. Manned Spacecraft Center, Houston, Tex,1963      **The Birth of NASA** Manfred "Dutch" von Ehrenfried,2016-03-23 This is the story of the work of the original NASA space pioneers men and women who were suddenly organized in 1958 from the then National Advisory Committee on Aeronautics NACA into the Space Task Group A relatively small group they developed the initial mission concept plans and procedures for the U S space program Then they boldly built hardware and facilities to accomplish those missions The group existed only three years before they were transferred to the Manned Spacecraft Center in Houston Texas in 1962 but their organization left a large mark on what would follow Von Ehrenfried s personal experience with the STG at Langley uniquely positions him to describe the way the group was structured and how it reacted to the new demands of a post Sputnik era He artfully analyzes how the growing space program was managed and what techniques enabled it to develop so quickly from an operations perspective The result is a fascinating window into history amply backed up by first person documentation and interviews      *Applications Catalog of Pyrotechnically Actuated Devices/systems* Thomas L. Seeholzer,1995

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