

PROJECT MERCURY



FAMILIARIZATION MANUAL

Manned Satellite Capsule



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Mercury Familiarization Manual

**United States. National Aeronautics
and Space Administration, McDonnell
Aircraft Corporation**

Mercury Familiarization Manual:

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 20th Century NASA History World Spaceflight News Staff,2001-01-01

Project Mercury Familiarization Manual United States. National Aeronautics and Space Administration,McDonnell Aircraft Corporation,1962 **Project Mercury Familiarization Manual** , *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

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,1959 Guide to the Johnson Space Center History Archive (1952-1980) in the Woodson Research Center, Rice University Janet Kovacevich,Woodson Research Center,1984 **NASA PROJECT GEMINI FAMILIARIZ** NASA,2011-05 Just ten days after Alan Shepard Jr became America's first man in space on May 5

1961 President John F Kennedy challenged the nation suggesting that the United States should land a man on the moon by the end of the decade The ambitious goal of Project Apollo required a series of intermediate steps which were to be explored by Project Gemini Created on January 3 1962 Project Gemini s objectives were many During ten manned flights in 1965 and 1966 astronauts would perform spacewalks rendezvous with orbiting vehicles using maneuvering and propulsion systems and perform docking tests A great deal of experience was gained and equipment tested and with one exception a dry land capsule landing all of the planned objectives were met All ten manned flights were made using Titan II two stage boosters that were purpose built for Gemini and known as GLV or Gemini Titans The prime contractor for the Mercury capsule McDonnell Aircraft constructed the two man Gemini capsule A larger more sophisticated spacecraft than Mercury the Gemini capsule relied on a detachable Equipment Module for power propulsion and life support systems The capsule itself was outfitted with ejection seats carried an on board Guidance Computer and could be flown in six directions Created by NASA and contractor McDonnell Aircraft this Familiarization Manual explains all the systems aboard the Mercury space capsule including cabin controls sequence electrical power cooling guidance and control communications retrograde rocket and landing systems and procedures Dating from September of 1965 for the long range and extended missions it represents a late revision of documents created at the beginning of the Gemini program Originally restricted this manual has been declassified and is presented in its entirety running nearly 600 pages *Mercury project summary* United States. Manned Spacecraft Center, Houston, Tex, 1963 Exploring the Unknown, Volume VII, NASA SP-2008-4407, 2008, *, 2009 **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 *Exploring the Unknown* , 1995 America in Space Russell R. Tobias, 1995-05-30 Thoroughly annotated entries are arranged by subject and indexed by author Most titles are generally available in public or college libraries the many NASA publications may be obtained from government depository libraries Intended as a research guide for high school and college students Annotation copyrighted by Book News Inc Portland OR *Exploring the Unknown: Human spaceflight* , 1995 MERCURY PROJECT SUMMARY INCLUDING RESULTS OF THE FOURTH MANNED ORBITAL FLIGHT, MAY 15 AND 16, 1963 , 1963

NASA Space Vehicle Design Criteria, Guidance and Control - Entry Vehicle Control ,1969 **Space Flight** Lance K. Erickson,2010-08-16 This book offers a comprehensive look at the history of space exploration the technology that makes it possible and the continued efforts that promise to carry us into the future It goes through the history of space exploration from the earliest sub orbital and orbital mis **NASA SP.** ,1962

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