



20th Century NASA History:

Project Mercury Familiarization Manual

World Spaceflight News
Special Report

Mercury Familiarization Manual

NASA

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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,1962 **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** United States. National Aeronautics and Space Administration,McDonnell Aircraft Corporation,1959 *Project Mercury Familiarization Manual* , **Mercury Familiarization Manual SEDR-104-3** United States. National Aeronautics and Space Administration,McDonnell Aircraft Corporation,1962 **Mercury Project Summary** Manned Spacecraft Center (U.S.),1963 [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 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** ,1995 *A Study of Visual Simulation Techniques for Astronautical Flight Training* T. F. Buddenhagen, M. P. Wolpin, 1961 **NASA Technical Note** ,1968 **Technical History of the Environmental Control System for Project Mercury** Frank H. Samonski, 1967 **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 *Manual ...* United States. Navy Department. Bureau of Ships, 1943 **Life Support Systems for Humans in**

Space Erik Seedhouse, 2020-09-04 Life support systems are an integral part of crewed spacecraft designs and habitation systems This textbook introduces the LSS capabilities that sustain humans who live and work in space and it is written at a level appropriate for both undergraduate and postgraduate students The book begins with the basics of space physiology before detailing the features that make up different kinds of life support systems It includes concise descriptions of how atmospheric pressure is monitored how oxygen levels are maintained how waste management is achieved and how water is recycled and also describes the processes of fire detection and suppression Several chapters are devoted to chronicling the evolution of life support systems through the decades Each chapter includes a list of learning objectives summary sections and review questions Additionally various analogs for spaceflight life support systems are examined including nuclear submarines and our natural life support system here on Earth Overall this book serves as an approachable primer for any student seeking to understand the intricacies of spacecraft life support systems Human Spaceflight United States. National Aeronautics and Space Administration, 2008 This volume contains over 100 key documents many of which are published for the first time Each is introduced by a headnote providing context bibliographical details and background information necessary to understand the document These are organized into two chapters each beginning with an essay that keys the documents to major events in the history Applications Catalog of Pyrotechnically Actuated Devices/systems Thomas L. Seeholzer, 1995

Mercury Familiarization Manual Book Review: Unveiling the Power of Words

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