

SWIVEL BRACKET DISASSEMBLY

- 1. Remove locknut and lock (Figure 6). Then lift along bracket assembly from vertical bracket.
- 2. Remove tube mount (Figure 6) and pull vertical tube out of vertical bracket.



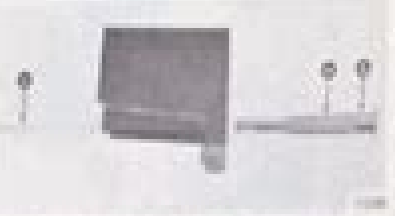
1 - Clamp bracket assembly
2 - Tube bracket
3 - Lock
4 - Spring

Figure 4. Clamp Bracket Removal



1 - Tube mount
2 - Swivel tube
3 - Swivel bracket
4 - Swivel bracket assembly

Figure 5. Swivel Tube Removal

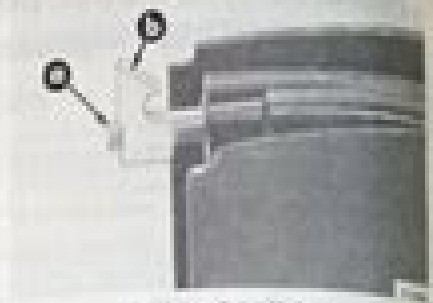


1 - Swivel bracket
2 - Spring
3 - Swivel bracket

Figure 6. Swivel Bracket Removal

Push down on the release button and pull up on release handle. Then move shaft to the side and pull back (Figure 7) out of vertical bracket.

Remove the release button with spring (Figure 8) from vertical bracket.



1 - Release button
2 - Release button spring

Figure 7. Release Button Installation

SWIVEL BRACKET REASSEMBLY

- 1. Insert shaft of the release button with spring into place in vertical bracket. Then bottom end button align with pin.
- 2. Slide release back up onto shaft of the release button and secure in place at end of shaft, as shown in Figure 7.
- 3. Place vertical tube into vertical bracket (Figure 6).
- 4. Thread tube mount (Figure 6) onto vertical tube and tighten mount until snug.
- 5. Reinstall clamp bracket assembly in vertical bracket (Figure 6).



1 - Swivel tube
2 - Installing Tube (Insert into hole)
3 - Tube mount

Figure 8. Installing Swivel Tube



Vertical Shaft and Upper Shaft (RC Model)

VERTICAL SHAFT REMOVAL

- 1. Remove the vertical bearing, following vertical bearing assembly (see "Index").
 - 2. Remove motor upper from inside of vertical bearing.
 - 3. Remove motor assembly completely from shaft, following motor removal ("Index").
 - 4. Insert 2 set screws (Figure 1) and slide lower bearing motor and ball bearing off vertical shaft.
- NOTE:** If shaft is marked and lower bearing motor will not slide off, use a file to remove marks.



1 - Set screw (2 each)
2 - Lower bearing retainer
3 - Vertical shaft
4 - Ball bearing

Figure 1. Lower Bearing Retainer Removal

- 1. Pull vertical shaft (Figure 2) out of upper shaft. Remove upper ball bearing from shaft.



1 - Upper ball bearing
2 - Vertical shaft
3 - Upper housing
4 - Motor (See Chapter 10 for removal from shaft)

Figure 2. Vertical Shaft Removal

- 1. Slide vertical bracket and shaft along onto vertical shaft.
- 2. Position vertical bearing to vertical shaft so the motor handle will be placed in desired direction - vertically toward lower end or 90° angle to front (parallel to the motor). Slide motor to shaft with the motor. Thread motor into groove of ball.
- 3. Reinstall motor screw in motor housing following wiring diagram (see "Index").
- 4. Properly secure motor and disconnect motor housing according to instructions in motor housing manual ("Index").

1 - Clamp bracket assembly
2 - Ball
3 - Motor
4 - Locknut

Figure 3. Installing Clamp Bracket Assembly

NOTE: Place gear on top of vertical shaft and vertical shaft are not assembly and then be secured together.

UPPER SHAFT REMOVAL

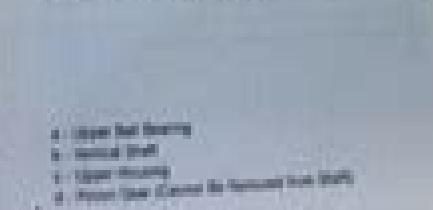
- 1. Use a rubber mallet to tap lower bearing cap out of bottom of upper shaft, as shown in Figure 3.
- 2. Remove clamping handle and pull upper shaft from vertical bearing.



1 - Lower bearing cap
2 - Clamping handle
3 - Rubber mallet
4 - Upper shaft

Figure 3. Lower Bearing Cap Removal

- 1. Insert 2 set screws, which secure motor bearing (Figure 4) to shaft, and slide bearing off shaft.
- 2. Remove upper bearing cap (if present) from shaft by tapping off with rubber mallet.



1 - Upper ball bearing
2 - Vertical shaft
3 - Upper housing
4 - Motor (See Chapter 10 for removal from shaft)

Figure 4. Vertical Shaft Removal

Mercury Thruster Manual

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Colagrossi,Stefano Silvestrini**



Mercury Thruster Manual:

"Thruster" Electric Outboard Brunswick Corporation. Mercury Marine,1976 **Monthly Catalog of United States Government Publications** ,1975 **Field & Stream** ,1987-03 FIELD STREAM America s largest outdoor sports magazine celebrates the outdoor experience with great stories compelling photography and sound advice while honoring the traditions hunters and fishermen have passed down for generations **Space Flight** Lance K. Erickson,2010-03-15 Space exploration has fascinated us since the launch of the first primitive rockets more than 3 000 years ago and it continues to fascinate us today The data gathered from such exploration has been hugely instrumental in furthering our understanding of our universe and our world In Space Flight History Technology and Operations author Lance K Erickson 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 Space Flight goes through the history of space exploration from the earliest sub orbital and orbital missions to today s deep space probes to provide a close look at past and present projects then turns its attention to programs being planned today and to the significance of future exploration Focusing on research data gleaned from these exploration programs the book s historical perspective highlights the progression of our scientific understanding of both the smallest and largest entities in our universe from subatomic particles to distant stars planets and galaxies Both the novice and the advanced student of space exploration stand to profit from the author s engaging and insightful discussion Sputtering Phenomena in Ion Thrusters ,1983 *Popular Science* ,1987-02 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better *Boating* ,1983-01 **Popular Mechanics** ,1987-02 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle Digital Apollo David A. Mindell,2011-09-30 The incredible story of how human pilots and automated systems worked together to achieve the ultimate achievement in flight the lunar landings of NASA s Apollo program As Apollo 11 s Lunar Module descended toward the moon under automatic control a program alarm in the guidance computer s software nearly caused a mission abort Neil Armstrong responded by switching off the automatic mode and taking direct control He stopped monitoring the computer and began flying the spacecraft relying on skill to land it and earning praise for a triumph of human over machine In Digital Apollo engineer historian David Mindell takes this famous moment as a starting point for an exploration of the relationship between humans and computers in the Apollo program In each of the six Apollo landings the astronaut in command seized control from the computer and landed with his hand on the stick Mindell recounts the story of astronauts desire to control their spacecraft in parallel with the history of the Apollo Guidance Computer From the early days of aviation through the birth of

spaceflight test pilots and astronauts sought to be more than spam in a can despite the automatic controls digital computers and software developed by engineers Digital Apollo examines the design and execution of each of the six Apollo moon landings drawing on transcripts and data telemetry from the flights astronaut interviews and NASA's extensive archives Mindell's exploration of how human pilots and automated systems worked together to achieve the ultimate in flight a lunar landing traces and reframes the debate over the future of humans and automation in space The results have implications for any venture in which human roles seem threatened by automated systems whether it is the work at our desktops or the future of exploration *The 8-CM Ion Thruster Characterization*, 1983 **NASA Technical Memorandum**, 1979

Results of the First U.S. Manned Orbital Space Flight, February 20, 1962 Manned Spacecraft Center (U.S.), 1962 This document presents the results of the first United States manned orbital space flight conducted on February 20 1962 The prelaunch activities spacecraft description flight operations flight data and postflight analyses presented form a continuation of the information previously published for the two United States manned suborbital space flights conducted on May 5 1961 and July 21 1961 respectively by the National Aeronautics and Space Administration *MotorBoating*, 1979-01 **Monthly Catalog of United States Government Publications, Cumulative Index** United States. Superintendent of Documents, 1976 *Scientific and Technical Aerospace Reports*, 1995 **J.P.L. Quarterly Technical Review** Jet Propulsion Laboratory (U.S.), 1972 [NASA Authorization for Fiscal Year 1971](#) United States. Congress. Senate. Committee on Aeronautical and Space Sciences, 1970 **Monthly Catalogue, United States Public Documents**, 1995 **Results of the First United States Manned Orbital Space Flight** United States. National Aeronautics and Space Administration, 1962 **Modern Spacecraft Guidance, Navigation, and Control** Vincenzo Pesce, Andrea Colagrossi, Stefano Silvestrini, 2022-11-13 Modern Spacecraft Guidance Navigation and Control From System Modeling to AI and Innovative Applications provides a comprehensive foundation of theory and applications of spacecraft GNC from fundamentals to advanced concepts including modern AI based architectures with focus on hardware and software practical applications Divided into four parts this book begins with an introduction to spacecraft GNC before discussing the basic tools for GNC applications These include an overview of the main reference systems and planetary models a description of the space environment an introduction to orbital and attitude dynamics and a survey on spacecraft sensors and actuators with details of their modeling principles Part 2 covers guidance navigation and control including both on board and ground based methods It also discusses classical and novel control techniques failure detection isolation and recovery FDIR methodologies GNC verification validation and on board implementation The final part 3 discusses AI and modern applications featuring different applicative scenarios with particular attention on artificial intelligence and the possible benefits when applied to spacecraft GNC In this part GNC for small satellites and CubeSats is also discussed Modern Spacecraft Guidance Navigation and Control From System Modeling to AI and Innovative Applications is a valuable resource for aerospace engineers GNC

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