

MS-395 William Butler Aircraft Maintenance Collection

Collection Number: MS-395

Title: William Butler Aircraft Maintenance Collection

Dates: 1943-2000, (bulk 1983-1990)

Creator: William Butler

Summary/Abstract:

The collection includes a variety of aircraft maintenance materials including manuals, handbooks, pilot's guides, troubleshooting guides, educational materials and study guides. The collection also includes a run of *Aerospace American* aviation journal from 1987-1988, as well a few issues of *Aircraft Maintenance Technology* from 2000. Finally, there are VHS training tapes concerning maintenance topics primarily for the Boeing 737.

Quantity/Physical Description: 3.75 linear feet (3 record center boxes and 2 document cases)

Language(s): English

Repository:

Special Collections and Archives, Paul Laurence Dunbar Library, Wright State University, Dayton, OH 45435-001, (937) 775-2092

Restrictions on Access: There are no restrictions on accessing material in this collection.

Restrictions on Use:

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Preferred Citation:

(Box Number, Folder Number), MS-395, William Butler Aircraft Maintenance Collection, Special Collections and Archives, University Libraries, Wright State University, Dayton, Ohio

Processed by: Jeremy Feador, and Jennifer Budzek, June 2009.

Arrangement:

The William Butler Aircraft Maintenance Collection is organized into three series:

- Series I: Maintenance Manuals, Training Books, Handbooks and Guides
- Series II: Aviation Journals
- Series III: VHS Training Tapes

Scope and Content

The William Butler Aircraft Maintenance Collection contains aircraft maintenance manuals, training books, handbooks, guides, aviation journals, and training tapes on aircraft maintenance and operations on various aircraft. Many of these publications date from the 1980s-1990s. The collection is organized into three series:

Series I: Maintenance Manuals, Training Books, Handbooks and Guides, 1943-1999

This series contains maintenance manuals, training books, handbooks, troubleshooting guides, system schematics, pilot guides, study guides and self study course materials. The series is divided into two subseries. Subseries I is arranged by manufacturer and is organized alphabetically by manufacturer and then aircraft model. There is a significant amount of material on the Boeing 727, 737, 747, and 757; and the McDonnell Douglas DC 9, DC 10, MD-11, MD-80 and MD-82.

Subseries II, General, contains publications that are not specific to a single manufacturer's aircraft. The subseries is organized alphabetically by title. While primarily dating from the 1980s through 1990s, guides date as early as 1943 and cover topics such as aircraft maintenance technology, history of avionics, aviation weather, and mountain flying.

Series II: Aviation Journals, 1987-1988, 2000

Series II, Aviation Journals, contains sixteen copies of the periodical *Aerospace American*, a publication of the American Institute of Aeronautics and Astronautics, from April 1987 through December 1988. The journal offers insight into topics discussed by aerospace professionals in the late 1980s. Also included are two copies of *Aircraft Maintenance Technology* from April-June, 2000. In addition is a collection of four color-etch prints titled *Wings of Glory: A Color-etch Collection of World War I Aircraft* containing artwork by John Berkey and distributed by Southern California Gas Company.

Series III: VHS Training Tapes, 1984-1985, undated

Series III, VHS Training Tapes, is arranged alphabetically by title and contains training videotapes on aviation maintenance topics primarily for Boeing 737 systems. Most of the tapes date 1984-1985, but there are also tapes that are undated. The videos contain information on engine fuel and lube systems, as well as major module assembly and disassembly. Other topics include the digital flight control system, flight management system, and inertial reference systems. The videos related to engine topics are labeled "Evendale Technical Training School".

Subject Terms

Subjects (General)

Aeronautics--Handbooks, manuals, etc
Airplanes--United States--Maintenance and repair
Aviation—instrumentation--handbooks

Boeing airplanes--History
 McDonnell Douglas aircraft
 Piloting--Handbooks, manuals, etc

Formats

Manuals, guides, handbooks
 VHS
 FAA Advisory Circulars

Collection Inventory

Series I		Maintenance Manuals, Training Books, Handbooks and Guides, 1943-1999	
Subseries 1		By Manufacturer	
Box	File	Description	Date
1	1	Boeing: Standard Aircraft Parts Illustrated Guide Book	Jun 1965
1	2	Boeing 727 APU Troubleshooting Guide	Undated
1	3	Boeing 727 American Airlines Maintenance- Run up/taxi Training Handbook	Aug 1983
1	4	Boeing 727 Autopilot Self Study Course	1987
1	5	Boeing 727-200, 737, Dassault Mercure: Automatic Electronic Cabin Pressure Control	Undated
1	6	Boeing 737 Run-Up/Taxi/ & Engine Run	Jan 1999
1	7	Boeing 737 APU Troubleshooting Guide	Undated
1	8	Boeing 737 Component Locators and Field Trip Checklist (2)	Jan 1984
1	9	Boeing 737 Panel Description	Feb 1979
1	10	Boeing 737-100, -200, and -300 FSH-413 Environmental Control Systems: Airesearch Study Guide	Feb 1984
1	11	Boeing 737/200 Maintenance Training Guide	May 15, 1967
1	12	Boeing Advanced 737-200 Systems	Nov 1984
1	13	Boeing 737/200 Systems	1984
1	14	Boeing 737-300 Operation of the Honeywell Inertial Reference System	March 1985
1	15	Boeing 737 -300, -400, -500 Component Locators and Field Trip Checklist	Jan 1984
1	16	Boeing 737-300, -400, -500 Component Locators, Field Trip Checklist, and Panel Description	Apr 24, 1992
1	17	Boeing 737 -300/-400/-500 Systems	Jun 1998
1	18	Boeing 737-600, -700,-800 Bite Manual Boeing Commercial Airplane Group	Jun 10, 1999
1	19	Boeing 737-600/-700/-800 Component Locator Guide	Undated
1	20	Boeing 737-823American Airlines Flight Training Development, GSWFA-DH Diagram	May 14, 1999

<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
1	21	Boeing 747 APU Troubleshooting Guide	Undated
1	22	Boeing 757 Field Trip Checklist	Undated
1	23	Cessna Aircraft Company: Illustrated Parts Catalog for Models 120 and 140	1954
1	24	Cessna Aircraft Company: Pilot Safety and Warning Supplement	1998
1	25	Curtiss-Wright Corporation, Wright Aeronautical Division: Basic Theory of Operation Turbo Compound Engine	Jan 1962
1	26	Hubbell Configurations chart	Undated
1	27	Lockheed Models 1049G and 1049H Commercial Operation: Super Constellation Pocket Handbook	Undated
1	28	Lockheed Super Constellation turbo compound engine: Engine Analyzer Ignition Patterns – Flight Operations Training School Reference Handbook	Dec 1956
1	29	McDonnell Douglas DC-9 APU Troubleshooting Guide	Undated
2	1	McDonnell Douglas DC-9 series -30, -40, -50, -80– Dual Automatic Cabin Pressure Control System, Airesearch Study Guide	Nov 1979
2	2	McDonnell Douglas DC-9 series -30, -40, -50, -80– Dual Automatic Cabin Pressure Control System: Airesearch Study Guide	May 1981
2	3	McDonnell Douglas DC-9 Super 80 Aircal System Schematics	Sep 1982
2	4	McDonnell Douglas DC-10, APU Troubleshooting Guide	Undated
2	5	McDonnell Douglas DC-10 Airplane Stations and Access Doors	Sep 1990
2	6	McDonnell Douglas DC-10 Airplane Zoning	Sep 1990
2	7	McDonnell Douglas DC-10 Flight Controls Home Study Course	1986
2	8	McDonnell Douglas DC-10 Run-Up/Taxi Training Handbook	Apr 1989
2	9	McDonnell Douglas MD-11 Difference Course Training Manual, Freighter versus Passenger	Jan 1995
2	10	McDonnell Douglas MD-11 FMS Pilot's Guide	Oct 1977
2	11	McDonnell Douglas MD-11 Ground Handling, P-11-00-A-06	Feb 1991
2	12	McDonnell Douglas MD-11 Interior Troubleshooting Guide	Undated
2	13	McDonnell Douglas MD-11 Lamm Schematics	Oct 1, 1990
2	14	McDonnell Douglas MD-80 36-280 [D] APU Troubleshooting Guide	Apr 1995
2	15	McDonnell Douglas MD-80 Electronic Flight Instrument System (EFIS) Home Study Course	1987
2	16	McDonnell Douglas MD-80 Series Aircraft: Environmental Control System and Components—Airesearch Study Guide	Aug 1983
2	17	McDonnell Douglas MD-80 Maintenance Manual pages	Dec 1988
2	18	McDonnell Douglas MD-80 Run-Up/Taxi Training Handbook	Nov 1990
2	19	McDonnell Douglas MD-82, MD-83 American Airlines Lamm Schematics,	Jul 20, 1989

<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
2	20	Rockwell Collins: Collins Engine Indication and Crew Alerting System Troubleshooting Guide	Sep 1996
2	21	Rockwell Collins SAT-2000 Satellite Communications System, Pilot's Guide	Nov 1999
2	22	Rockwell Collins: Traffic Alert and Collision Avoidance System, Pilot's Guide	1999
2	23	Rockwell International: What is VOR/ILS, Instructional Guide	Jun 1980
2	24	Vultee BT-13A and BT-15 (Army Models) and SNV-1 Navy Model Structural Repair Instructions	May 10, 1943
Series I			
Maintenance Manuals, Training Books, Handbooks and Guides, 1943-1999			
Subseries 2			
General (arranged alphabetically by title)			
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
2	25	AA Magnetic Particle Inspection and Penetrant Inspection	Feb 1980
2	26	AOPA Mountain Flying Course, Pilot Training Guide	1974
2	27	ATA Chapterization and Numbering System	May 1993
2	28	Aeronautics Aircraft Spotters' Handbook	1943
2	29	Air Transport Association of American Specification for Manufacturers' Technical Data, Appendix 2	Feb 22, 1978
2	30	Aircraft Fueling Guide (United Airlines)	Nov 1987
3	1	Aircraft Inspection for the General Aviation Aircraft Owner, Inspection Handbook AC-20-106	Apr 1978
3	2	Airport Marking, Signs, and Selected Surface Lighting	May 1995
3	3	Aviation Weather, AC-00-6A	1975
3	4	Aviation Weather Services, EA-AC-00USA	1977
3	5	Avionics Past and Present (Honeywell)	Jun 1988
3	6	Complete Electronics Home Study Course Self-Study Training Lessons Volume 1	1984
3	7	Complete Electronics Home Study Course Self-Study Training Lessons Volume 2	1984
3	8	Component Identification Exercise Answer Book, cfm 56-7B	Jan 1998
3	9	FCC General Radiotelephone Operator License: Applicant's Home Study Course (includes audio cassettes)	1985
3	10	FCC General Radiotelephone Operator License Test Answers	1987
3	11	Ignition Systems and Magneto Timing with drawings	Undated
3	12	Instrument Flying Handbook, AC-61-2713	1971
3	13	Instrument Pilot Airplane Test and Helicopter – Questions, Answers, and Explanations	1980
3	14	Line Maintenance Guide for Improved Unscheduled Removal Rate-Stall Warning Computer	Aug 1990
3	15	Logic Symbols Applied to Maintenance, P-AV-00-B-02 (2 copies)	Undated
3	16	War Department Technical Manual TMI-410: Airplane Structures (2 copies)	Sept 15, 1943
3	17	Weight and Balance	Undated

Series II		Journals, 1987-1988, 2000	
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
3	18	<i>Aerospace American</i>	Apr 1987
3	19	<i>Aerospace American</i>	May 1987
3	20	<i>Aerospace American</i>	Jun 1987
3	21	<i>Aerospace American</i>	Jul 1987
3	22	<i>Aerospace American</i>	Oct 1987
3	23	<i>Aerospace American</i>	Nov 1987
3	24	<i>Aerospace American</i>	Feb 1988
3	25	<i>Aerospace American</i>	Mar 1988
3	26	<i>Aerospace American</i>	Apr 1988
3	27	<i>Aerospace American</i>	Jun 1988
3	28	<i>Aerospace American</i>	Jul 1988
3	29	<i>Aerospace American</i>	Aug 1988
3	30	<i>Aerospace American</i>	Sep 1988
3	31	<i>Aerospace American</i>	Oct 1988
3	32	<i>Aerospace American</i>	Nov 1988
3	33	<i>Aerospace American</i>	Dec 1988
3	34	<i>Aircraft Maintenance Technology</i>	Apr 2000
3	35	<i>Aircraft Maintenance Technology</i>	May/Jun 2000
3	36	<i>Wings of Glory: A Color-etch Collection of World War I Aircraft</i> by John Berkey	Undated
Series III		VHS Training Tapes, 1984-1985, undated	
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
4	1	Boeing 727 Exterior Walk Around 27-00-01 (15:30)	1985
4	2	Boeing 737 CFM 56-3 F104 Engine: Fuel System Line Replaceable Units (26:26)	Undated
4	3	Boeing 737 CFM 56-3-F103 Engine: Lube System Line Replacement Units (16:52)	Undated
4	4	Boeing 737 CFM 56-3F103 Engine: Lube System Line Replacement Units (16:52) (copy 2)	Undated
4	5	Boeing 737 CFM 56-3 F101 Engine: Major Module Assembly (19:57)	Undated
4	6	Boeing 737 CFM 56-3 Engine: Major Module Disassembly (32:46)	Undated
4	7	Boeing 737 Thrust Reverser-Installation and Rigging For Isolated Engines (20:28)	April 10, 1984
4	8	Boeing 737-300 Digital Flight Control System: Operational Check V-37-27-01 (14:58)	Jun 21, 1984
4	9	Boeing 737-300 Digital Flight Control System: Operational Check V-37-27-01 (14:58) (copy2)	Jun 21, 1984
4	10	Boeing 737-300 Flight Management Computer: Ground Operational Check, V-37-34-01 (13:13)	Jun 19, 1984
5	1	Boeing 737-300, Flight Management System V-37-34-04 (20:37)	Oct 11, 1985
5	2	Boeing 737-300 Inertial Reference System (IRS): Flight Line Operations and Maintenance V-37-34-03 (52:10)	Mar 1, 1985
5	3	Boeing 737-300 Inertial Reference System (IRS): Ground Operational Check V-37-34-03 (16:48)	Jun 28, 1984
5	4	Boeing 737-300 Inertial Reference System (IRS): Ground Operational Check V-37-34-03 (16:48) (copy 2)	Undated

<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
5	5	Boeing 737-300 Inertial Reference System (IRS): Line Operation and Maintenance Support (54:10)	Undated
5	6	Boeing 737-300 Power Plant CFM 36-3, (9:40)	Undated