

AA-5 SERIES  
MAINTENANCE MANUAL

INTRODUCTION

GENERAL

The function of this Maintenance Manual is to acquaint maintenance personnel with the systems and their components of the AA-5, AA-5A and AA-5B aircraft and to direct them in the proper procedures for maintaining the aircraft in an airworthy condition.

This manual contains information on installations made in the aircraft during manufacture and optional equipment only. However, information derived from applicable Single Engine Aircraft Service Kits, Service Bulletins, and Service Letters will be included in the manual as soon as possible after the issuance of these documents. Changes or installations made by the operator are not included in this manual.

The ability of maintenance personnel is recognized, and those procedures which are considered common to all aircraft have been either briefly referenced or omitted.

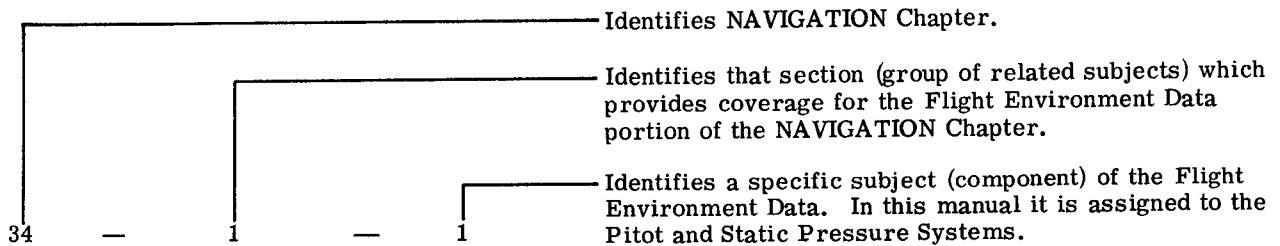
FORMAT

The chapter identification in this manual has been prepared in accordance with Air Transport Association (ATA) Specification No. 100. A functional breakdown is employed whereby all data pertaining to a given system, or component of a system, may be found in one chapter with a minimum of cross-referencing to other chapters.

The Electrical Power Chapter in this manual covers only the power sources and distribution equipment for the electrical system. There is not a chapter in this manual specifically designated for instruments. Details of individual branch electrical or instrument systems will be found in the applicable chapter.

IDENTIFICATION OF SUBJECT MATTER

A three-dash number system is employed to identify subject matter. The first dash number identifies the chapter, the second dash number the section, and the third dash number the component or sub-section of the section. The following example illustrates how the numbering system is used in the NAVIGATION Chapter.



The dash 0 (-0) is provided as a means for covering a complete system or sub-system. The chapter number followed by a zero (34-0) will segregate that material covering the complete system; the chapter section numbers followed by a zero (34-1-0) is used for further details covering the sub-system or component.

PAGE NUMBER IDENTIFICATION

Page number blocks are used to separate the subject matter into the following categories:

- |                                       |                       |
|---------------------------------------|-----------------------|
| General Coverage and Unit Description | Pages 1 through 100   |
| Troubleshooting                       | Pages 101 through 200 |
| Maintenance Practices                 | (See Below)           |

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Maintenance Practices include as applicable the following sub-topics: Servicing, Removal/Installation, Adjustment/Test, Inspection/Check, Cleaning/Painting, and Approved Repairs.

If all sub-topics, under Maintenance Practices are brief, they are combined into one topic. All such combined topics are numbered within page number block 201-300. Whenever individual sub-topics are so lengthy that a combination requires several pages, each sub-topic is treated as an individual topic. Page number blocks for this sub-topic arrangement are as follows:

|                      |           |
|----------------------|-----------|
| Servicing            | 301 - 400 |
| Removal/Installation | 401 - 500 |
| Adjustment/Test      | 501 - 600 |
| Inspection/Check     | 601 - 700 |
| Cleaning/Painting    | 701 - 800 |
| Approved Repairs     | 801 - 900 |

Each new subject starts with page 1, 101, 201, etc., and continues through the page block assignment to the extent necessary. The first page of each block is placed on a right-hand page.

**FIGURE IDENTIFICATION**

Figures (illustrations) are numbered consecutively within each topic (subject) as follows:

|                                    |                     |
|------------------------------------|---------------------|
| Figures in Description -           | 1, 2, 3, 4, 5, etc. |
| Figures in Troubleshooting -       | 101, 102, 103, etc. |
| Figures in Maintenance Practices - |                     |
| When not sub-divided -             | 201, 202, 203, etc. |
| When sub-divided -                 |                     |
| Servicing -                        | 301, 302, 303, etc. |
| Removal/Installation -             | 401, 402, 403, etc. |
| Adjustment/Test -                  | 501, 502, 503, etc. |
| Cleaning/Painting -                | 701, 702, 703, etc. |
| Approved Repairs -                 | 801, 802, 803, etc. |

**INDEXING**

Each chapter is prefaced with a table of contents identifying the subject matter within the chapter in the order of presentation. The table of contents is arranged with the following headings: DESCRIPTION; TROUBLESHOOTING; and MAINTENANCE PRACTICES.

**PART NUMBERS**

This manual must not be used for identifying spare parts by number. Consult the Illustrated Parts Catalog for this information. Part numbers are used in this manual only as a means of identification when nomenclature alone is inadequate.

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**REVISIONS**

Revisions to the original text are indicated by vertical lines in the left margin of the page, adjacent to the revised material.

The manual is provided with a "Record of Revisions" page for recording revisions by number and the dates on which they were inserted in the manual.

Each page revised or added to the initial manual will be identified by the date of revision at the bottom of the page. Pages issued with the original manual are identified with the issue date of the manual.

Each revision also contains a "List of Effective Pages". This list contains the chapter, page number, and date of each page which is effective since the issuance of the initial manual. This list is updated for each revision, with page changes indicated by the number of asterisks (\*) placed adjacent to the page number as noted below:

- \*Pages revised by the current revision.
- \*\*Pages added by the current revision.
- \*\*\*Pages deleted by the current revision.

**CROSS REFERENCE**

**NAME, MODEL DESIGNATION AND EFFECTIVE SERIAL RANGES**

Gulfstream American aircraft are certified under model number designations. For marketing purposes, each model is also given a name. The aircraft model number is used in this publication except where the name is necessary to differentiate between versions of the same basic model. The following table contains a listing of name, model years, model number, and serial range.

| POPULAR NAME     | MODEL YEAR | MODEL | SERIAL NOS. |           |
|------------------|------------|-------|-------------|-----------|
|                  |            |       | BEGINNING   | ENDING    |
| AA-5 or Traveler | 1972       | AA-5  | AA5-0001    | AA5-0154  |
| AA-5 or Traveler | 1973       | AA-5  | AA5-0155    | AA5-0405  |
| AA-5 or Traveler | 1974       | AA-5  | AA5-0406    | AA5-0640  |
| AA-5 or Traveler | 1975       | AA-5  | AA5-0641    | AA5-0834  |
| AA-5A or Cheetah | 1976       | AA-5A | AA5A-0001   | AA5A-0282 |
| AA-5A or Cheetah | 1977       | AA-5A | AA5A-0283   | AA5A-0522 |
| AA-5A or Cheetah | 1978       | AA-5A | AA5A-0523   | AA5A-0670 |
| AA-5A or Cheetah | 1979       | AA-5A | AA5A-0671   | AA5A-0900 |
| AA-5B or Tiger   | 1975       | AA-5B | AA5B-0001   | AA5B-0110 |
| AA-5B or Tiger   | 1976       | AA-5B | AA5B-0111   | AA5B-0399 |
| AA-5B or Tiger   | 1977       | AA-5B | AA5B-0400   | AA5B-0692 |
| AA-5B or Tiger   | 1978       | AA-5B | AA5B-0693   | AA5B-0905 |
| AA-5B or Tiger   | 1979       | AA-5B | AA5B-0906   | AA5B-1323 |