

1999 Kg. SENECA III PA-34-220T

PILOT'S OPERATING HANDBOOK

AND

FAA APPROVED
AIRPLANE FLIGHT MANUAL

AIRPLANE
SERIAL NO. 54-8135066

AIRPLANE
REGIST. NO. OE- FBE

PA-34-220T

REPORT: VB-1150 FAA APPROVED BY:

Ward Evans

WARD EVANS

D.O.A. NO. SO-1

PIPER AIRCRAFT CORPORATION

VERO BEACH, FLORIDA

DATE OF APPROVAL:

FEBRUARY 20, 1981

FAA APPROVED IN NORMAL CATEGORY BASED ON FAR 23 AND FAR PART 21, SUBPART J. THIS HANDBOOK INCLUDES THE MATERIAL REQUIRED TO BE FURNISHED TO THE PILOT BY FAR 23 AND FAR PART 21, SUBPART J AND CONSTITUTES THE APPROVED AIRPLANE FLIGHT MANUAL AND MUST BE CARRIED IN THE AIRPLANE AT ALL TIMES.



WARNING

EXTREME CARE MUST BE EXERCISED TO LIMIT THE USE OF THIS HANDBOOK TO APPLICABLE AIRCRAFT. THIS HANDBOOK IS VALID FOR USE WITH THE AIRPLANE IDENTIFIED ON THE FACE OF THE TITLE PAGE. SUBSEQUENT REVISIONS SUPPLIED BY PIPER AIRCRAFT CORPORATION MUST BE PROPERLY INSERTED.

Published by
PUBLICATIONS DEPARTMENT
Piper Aircraft Corporation
Issued: February 20, 1981

REPORT: VB-1150

APPLICABILITY

Application of this handbook is limited to the specific Piper PA-34-220T model airplane designated by serial number and registration number on the face of the title page of this handbook.

This handbook cannot be used for operational purposes unless kept in a current status.

REVISIONS

The information compiled in the Pilot's Operating Handbook, with the exception of the equipment list, will be kept current by revisions distributed to the airplane owners. The equipment list was current at the time the airplane was licensed by the manufacturer and thereafter must be maintained by the owner.

Revision material will consist of information necessary to update the text of the present handbook and/or to add information to cover added airplane equipment.

I. Revisions

Revisions will be distributed whenever necessary as complete page replacements or additions and shall be inserted into the handbook in accordance with the instructions given below:

1. Revision pages will replace only pages with the same page number.
2. Insert all additional pages in proper numerical order within each section.
3. Page numbers followed by a small letter shall be inserted in direct sequence with the same common numbered page.

II. Identification of Revised Material

Revised text and illustrations shall be indicated by a black vertical line along the outside margin of the page, opposite revised, added or deleted material. A line along the outside margin of the page opposite the page number will indicate that an entire page was added.

Black lines will indicate only current revisions with changes and additions to or deletions of existing text and illustrations. Changes in capitalization, spelling, punctuation or the physical location of material on a page will not be identified.

ORIGINAL PAGES ISSUED

The original pages issued for this handbook prior to revision are given below:

Title, ii through vii, 1-1 through 1-11, 2-1 through 2-12, 3-1 through 3-23, 4-1 through 4-37, 5-1 through 5-31, 6-1 through 6-63, 7-1 through 7-39, 8-1 through 8-19, 9-1 through 9-102, and 10-1 through 10-3.

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS

Current Revisions to the PA-34-220T Seneca III Pilot's Operating Handbook, REPORT: VB-1150 issued February 20, 1981.


Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 1 (PR810508)	3-4	Revised Warning.	
	3-15	Revised Warning.	
	4-9	Revised procedure.	
	4-26	Revised para. 4.31.	
	5-21	Revised fig. 5-21.	
	6-40	Added items 221 and 223.	
	6-48	Revised item 285.	
	6-49	Revised item 291.	
	7-14	Revised para. 7.15.	
	7-26	Revised para. 7.23.	
	9-i	Revised Table of Contents.	
	9-19 thru 9-32b	Added Supplement 4 (KFC 200 Automatic Flight Control System with Flight Director).	
	9-33 thru 9-44d	Added Supplement 5 (KFC 200 Automatic Flight Control System without Flight Director).	
	9-68	Revised sec. 4 (b) (1).	
	9-103 thru 9-106	Added Supplement 16 (Propeller Synchrophaser Installation).	
	9-107 thru 9-112	Added Supplement 17 (Century 21 Autopilot Installation).	
9-113 thru 9-124	Added Supplement 18 (Century 41 Autopilot Installation).		

Ward Evans

Ward Evans
May 8, 1981

REPORT: VB-1150

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 2 (PR811016) (cont)	6-47	Relocated items 271 and 273 from pg. 6-46; added new item 272; moved items 281 and 283 to pg. 6-48.	 Ward Evans Oct. 16, 1981
	6-48	Relocated items 281 and 283 from pg. 6-47; moved item 287 to pg. 6-49.	
	6-49	Relocated item 287 from pg. 6-48; moved item 291 to pg. 6-50.	
	6-50	Relocated item 291 from pg. 6-49.	
	6-62	Added new item 441.	
	7-15	Revised fig. 7-11.	
	7-20	Added info.	
	7-21	Revised fig. 7-15.	
	9-46	Revised Supplement, Section 1.	
	9-49	Added Caution Note; moved info. to pg. 9-50.	
	9-50	Relocated info. from pg. 9-49.	
	9-51	Revised Supplement, Section 3.	
	9-53	Revised Supplement, Section 3.	
Rev. 3 (PR820611)	1-4	Corrected para. 1.9.	
	3-i	Expanded checklist; moved info. to pg. 3-ii.	
	3-ii	Relocated info. from pg. 3-i; changed pg. nos.	
	3-4	Revised para. 3.3.	
	3-5	Revised and added procedure; moved info. to pg. 3-6.	

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 3 (PR820611) (cont)	3-6	Relocated info. from pg. 3-5; moved info. to pg. 3-7.	
	3-7	Relocated info. from pg. 3-6; moved info. to pg. 3-8.	
	3-8	Relocated info. from pg. 3-7; moved info. to pg. 3-9.	
	3-9	Relocated info. from pg. 3-8; moved info. to pg. 3-10.	
	3-10	Relocated info. from pg. 3-9; moved info. to pg. 3-11.	
	3-11	Relocated info. from pg. 3-10.	
	3-15	Revised para. 3.7.	
	3-16	Revised and added to para. 3.7.	
	3-17	Added to para. 3.7; moved info. to pg. 3-18.	
	3-18	Relocated info. from pg. 3-17; moved info. to pg. 3-19.	
	3-19	Relocated info. from pg. 3-18; moved info. to pg. 3-20.	
	3-20	Relocated info. from pg. 3-19; moved info. to pg. 3-21.	
	3-21	Relocated info. from pg. 3-20.	
	3-23	Amended para. 3.29.	
	4-i	Expanded checklist; moved info. to pg. 4-ii.	
	4-ii	Relocated info. from pg. 4-i.	
	4-18	Revised para. 4.17.	
	4-30	Corrected error.	
	4-37	Removed Note.	
	5-3	Corrected error.	
	5-14	Revised fig. 5-7 heading info.	
	5-17	Revised fig. 5-13.	
	5-20	Corrected error to fig. 5-19 info.	
5-22	Revised fig. 5-23 heading.		
5-23	Revised fig. 5-25.		


PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 3 (PR820611) (cont)	5-26	Revised fig. 5-31 pg. base info.	
	5-28	Amended fig. 5-35 notation.	
	5-29	Added grid alignment number to fig. 5-37.	
	5-30	Amended lettered infm. to fig. 5-39.	
	5-31	Corrected error to fig. 5-41 example.	
	6-1	Revised para. 6.1.	
	6-6	Revised fig. 6-5 info.	
	6-9	Corrected para. 6.7 (b).	
	6-10	Revised para. 6.7.	
	6-19	Revised para. 6.13.	
	6-20	Revised items 1 and 3.	
	6-21	Revised item 11 data.	
	6-29	Added item 129.	
	6-31	Revised item 135.	
	6-35	Revised item 177 data.	
	6-37	Revised item 193 data.	
	6-40	Revised item 223 b. data.	
	6-41	Revised item 227 a. data.	
	6-44	Revised item 255 data.	
	6-46	Revised and moved item 269 to pg. 6-47.	
	6-47	Relocated item 269 from pg. 6-46; revised item 272 data; moved items 277 and 279 to pg. 6-48.	
	6-48	Relocated items 277 and 279 from pg. 6-47; moved item 285 to pg. 6-49.	
	6-49	Relocated item 285 from pg. 6-48; moved item 289 to pg. 6-50.	
	6-50	Relocated item 289 from pg. 6-49; revised item 293 data; moved items 295 and 297 to pg. 6-51.	

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 3 (PR820611) (cont)	6-51	Relocated items 295 and 297 from pg. 6-50; revised item 301 data.	
	6-52	Added new item 302.	
	6-54	Revised item 315; revised item 319 data.	
	6-56	Revised item 385 (f) data.	
	7-3	Revised para. 7.5.	
	7-4	Revised para. 7.5.	
	7-5	Revised para. 7.7.	
	7-6	Cont. rev. para. 7.7; moved para. 7.9 to pg. 7-6b.	
	7-6a	New pg.	
	7-6b	New pg.; relocated para. 7.9 from pg. 7-6.	
	7-12	Revised para. 7.11.	
	7-18	Revised voltage info. to para. 7.17.	
	7-19	Revised fig. 7-13.	
	7-20	Revised para. 7.17.	
	7-26	Revised para. 7.23.	
	7-29	Corrected info. listings 29, 46, 47.	
	7-34	Revised para. 7.27 info.	
	7-37	Amended para. 7.37.	
	8-10	Revised para. 8.17.	
	8-14	Revised para. 8.23.	
	8-17	Revised para. 8.31 (b).	
	8-19	Corrected error.	
	9-16	Corrected error.	
	9-20	Added info. to listing.	
	9-22	Revised caution note; corrected pg. no. error.	
	9-26	Corrected error.	
	9-27	Revised Section 4 (g).	
	9-34	Added info. to listing.	
9-35	Revised Section 2 (f).		

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 3 (PR820611) (cont)	9-36 9-37 9-39 9-41 9-76 9-110 9-115 9-120 9-123 9-125 thru 9-130	Revised caution note; corrected pg. no. error. Revised Section 3 (d) (2). Corrected error. Revised Section 4 (4). Corrected pg. no. error. Revised Note. Revised Note and info. Corrected error. Added heading to Section 5. New pgs.; added Supplement 19.	 Ward Evans June 11, 1982
Rev. 4 (PR820913)	Title iii 1-1 1-5 3-ii 3-9 3-20, 3-21 3-22 3-23 3-24 3-25 4-16a 5-3 6-i	Revised Title Page. Revised para. Revised para. 1.1. Revised para. 1.15. Revised Table of Contents. Revised procedure. Revised para. 3.23. Moved info. to pg. 3-23 and 3-24, cont. revised para. 3.23. Moved info. to pg. 3-24, cont. revised para. 3.23, re-located info. from pg. 3-22. New page; relocated info. from pg. 3-22 and 3-23. New page; relocated info. from pg. 3-23. Revised para. 4.11. Revised para. 5.5 (a). Revised Table of Contents.	

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 4 (PR820913) (cont)	6-1 6-2 6-5 6-7 6-11 6-15 7-18 7-19 7-19a 7-19b 7-20 7-26, 7-27 7-28, 7-29 7-29a, 7-29b 7-34 7-35 7-36	Revised para. 6.1. Revised para. 6.3. Revised para. 6.5. Revised fig. 6-7. Revised fig. 6-9. Revised para. 6.11. Revised para. 7.17. Revised fig. 7-13. New page, added fig. 7-14. New page, cont. revised para. 7.17. Cont. revised para. 7.17. Revised para. 7.23. Revised fig. 7-21. New pages, added fig. 7-22. Revised para. 7.27. Revised para. 7.29. Revised para. 7.31 and 7.33.	<p align="center"><i>Ward Evans</i> Ward Evans Sept. 13, 1982</p>
Rev. 5 (PR840917)	Title iii vii 1-1 1-4 1-5 1-8 1-10 2-3 2-4 2-12 2-13	Revised Title Page. Revised para. Revised Table of Contents. Revised para. 1.1. Revised para. 1.5 and 1.7. Revised para. 1.15. Revised barometric pressure. Deleted MEA. Revised para. 2.7. Added items (i) c. and (i) d. to para. 2.7. Relocated fuel placard to pg. 2-13. Added pg. (added new and relocated fuel placards).	

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 5 (PR840917) (cont)	3-ii	Revised Table of Contents.	
	3-1	Revised para. 3.1.	
	3-9	Revised procedure.	
	3-20,	Revised para. 3.23.	
	3-21		
	3-22	Moved info. to pg. 3-23 and 3-24, cont. revised para. 3.23.	
	3-23	Moved info. to pg. 3-24, cont. revised para. 3.23, re-located info. from pg. 3-22.	
	3-24	New page; relocated info. from pg. 3-22 and 3-23.	
	3-25	New page; relocated info. from pg. 3-23.	
	4-4,	Revised para. 4.5	
	thru		
	4-12		
	4-16	Revised para. 4.11.	
	4-16b	Revised para. 4.13.	
	4-25	Revised para. 4.29.	
	4-26	Revised para. 4.31.	
	4-28	Revised para. 4.33.	
	4-32	Revised para. 4.41.	
	4-33	Continued revision para. 4.41; relocated info. from pg. 4-34.	
	4-34	Moved info. to pg. 4-33; revised para. 4.43.	
	5-3	Revised para. 5.5 (a).	
	5-9	Revised para. 5.7.	
	5-24	Revised fig. 5-27.	
	5-25	Revised fig. 5-29.	
5-26	Revised fig. 5-31.		
5-27	Revised fig. 5-33.		
5-28	Revised fig. 5-35.		
5-30	Added renumbered fig.; moved fig. to pg. 5-31.		




PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 5 (PR840917) (cont)	5-31	Relocated fig. from pg. 5-30; moved fig. to pg. 5-32.	
	5-32	New page; relocated fig. from pg. 5-31.	
	6-i	Revised Table of Contents.	
	6-1	Revised para. 6.1.	
	6-2	Revised para. 6.3.	
	6-5	Revised para. 6.5.	
	6-7	Revised fig. 6-7.	
	6-11	Revised fig. 6-9.	
	6-12	Revised fig. 6-11.	
	6-15	Revised para. 6.11.	
	6-27	Revised items 97 and 99.	
	7-i	Revised Table of Contents.	
	7-1, 7-2	Revised para. 7.3.	
	7-11	Relocated info. from pg. 7-12.	
	7-12	Moved info. to pg. 7-11; revised para. 7.11 and 7.13.	
	7-12a	New page, continued revision para. 7.13; relocated revised fig. 7-9 from pg. 7-13.	
	7-12b	New page; added fig. 7-10.	
	7-13	Moved fig. 7-9 to pg. 7-12a; relocated info. from pg. 7-14.	
	7-14	Moved info. to pg. 7-13.	
	7-16,	Revised para. 7.15.	
	7-17		
	7-18	Revised para. 7.17.	
	7-19	Revised fig. 7-13.	
7-19a	New page, added fig. 7-14.		
7-19b	New page, cont. revised para. 7.17.		
7-20	Cont. revised para. 7.17.		
7-26,	Revised para. 7.23.		
7-27			
7-28,	Renumbered fig. 7-21.		
7-29			

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 5 (PR840917) (cont)	7-29a,	Renumbered and revised fig.	
	7-29b	7-22.	
	7-29c,	New pages; added new fig.	
	7-29d	7-22.	
	7-33	Revised para. 7.25.	
	7-34	Revised para. 7.27; moved	
		info. to pg. 7-35.	
	7-35	Relocated info. from pg. 7-34;	
		moved info. to pg. 7-36.	
	7-36	Relocated info. from pg. 7-35;	
		moved para. 7.33 to pg. 7-37.	
	7-37	Relocated and revised para.	
		7.33 from pg. 7-36; moved	
		info. to pg. 7-38.	
	7-38	Relocated info. from pg. 7-37;	
		moved info. to pg. 7-39.	
	7-39	Relocated info. from pg. 7-38.	
	8-i	Revised pg. no.	
	8-2	Revised para. 8.3 info.	
	8-3	Revised para. 8.5 info.	
	8-4	Deleted para. 8.5 info.	
	8-5	Revised para. 8.9.	
	8-6	Revised para. 8.9; moved	
		info. to pg. 8-7.	
	8-7	Relocated info. from pg. 8-6;	
		moved info. to pg. 8-8.	
8-8	Relocated info. from pg. 8-7.		
8-11	Revised para. 8.21 (b).		
8-14	Revised para. 8.21 (d).		
8-19	Revised item 8.31 (g); re-		
	located para. 8.33.		
8-20	Added pg. (added para. 8.33).		
9-i	Revised Table of Contents.		
9-ii	Added pg. (added Supple-		
	ments 19, 20, 21, 22, 23 and 24.		
9-9	Revised title.		
9-10	Revised Section 1 info.;		
	relocated info. to pg. 9-11.		

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (Cont)

Revision Number and Code	Revised Pages	Description of Revisions	FAA Approved Signature and Date
<p>Rev. 9 (890116)</p>	<p>4-11 4-29 5-9 5-22a 5-22b 8-1 8-2 8-3 9-ii 9-195 thru 9-198</p>	<p>Revised para. 4.5. Revised para. 4.35. Revised List of Figu res. New page. Added fig. 5-24. New page. Revised para. 8.1. Revised para's. 8.1 and 8.3. Revised para. 8.3. Revised Table of Contents. Added Supplement 25, 3M (Series II) Stormscope, WX-1000.</p>	<p> D.H. Trompler</p> <p><u>Feb. 16, 1989</u> Date</p>
<p>Rev. 10 (PR890301)</p>	<p>9-ii 9-199 thru 9-202</p>	<p>Revised Table of Contents. Added Supplement 26, Northstar M1 Loran C Navigator.</p>	<p> D.H. Trompler</p> <p><u>March 24, 1989</u> Date</p>
<p>Rev. 11 (PR890501)</p>	<p>9-ii 9-203 thru 9-206</p>	<p>Revised Table of Contents. Added Supplement 27, 3M (Series II) Stormscope, WX-1000+.</p>	<p> D.H. Trompler</p> <p><u>May 26, 1989</u> Date</p>


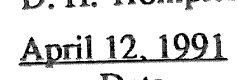
PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revisions	FAA Approval Signature and Date
Rev. 13 (PR900511)	vi-n	Added revision page	
	1-5	Revised para. 1.17.	
	7-i	Revised Table of Contents	
	7-37	Relocated info. from page 7-38 & 7-39; moved info. to page 7-38.	
	7-38	Relocated info. from page 7-37; Moved info. to page 7-37.	
	7-39	Moved Note to page 7-37. Added Narco ELT 910 info. Moved para. 7.39 to page 7-40.	
	7-40	Moved para. 7.39 from page 7-39.	
	9-28	Revised Section 4, item c.	
	9-156	Revised Section 2, item (b).	
	9-158	Revised Section 4, items (a) & (b).	
	9-161	Revised Section 4, item (5) 2.	
	9-166	Revised Section 4, item (b). Moved text to page 166b.	
	9-166a	Added page. Added Section 4, item (d).	
	9-166b	Added page. Moved text from page 166. Revised Section 7 para..	
	9-167	Revised figure 7-1. Added	
	thru	new item 2. Renumbered	
	9-169	descriptions. Revised item 7.	
9-170	Revised figure 7-3. Added		
thru	new item 2. Revised item 7.		
9-172	Moved old item 2 and renumbered as item 14.		
9-184	Revised circuit breaker info.		

D. H. Trompler

D. H. Trompler
Aug. 8, 1990
Date

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revisions	FAA Approval Signature and Date
Rev. 14 (PR910412)	7-12 7-12a	Revised para. 7.13. Revised fig 7-9 and para. 7.13.	 D. H. Trompler <u>April 12, 1991</u> Date
Rev. 15 (PR910426)	7-11	Revised para. 7.9	 D. H. Trompler <u>April 26, 1991</u> Date

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

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