

SARATOGA

PA-32-301

PILOT'S OPERATING HANDBOOK

AND

FAA APPROVED AIRPLANE FLIGHT MANUAL

AIRPLANE SERIAL NO. 3206011 AIRPLANE REGIST. NO. N9123D

PA-32-301

REPORT: VB-1060 FAA APPROVED BY: Ward Evans

DATE OF APPROVAL:
JANUARY 9, 1980

WARD EVANS
D.O.A. NO. SO-1
PIPER AIRCRAFT CORPORATION
VERO BEACH, FLORIDA

FAA APPROVED IN NORMAL CATEGORY BASED ON CAR 3. THIS HANDBOOK INCLUDES THE MATERIAL REQUIRED TO BE FURNISHED TO THE PILOT BY CAR 3 AND CONSTITUTES THE APPROVED AIRPLANE FLIGHT MANUAL AND MUST BE CARRIED IN THE AIRPLANE AT ALL TIMES.



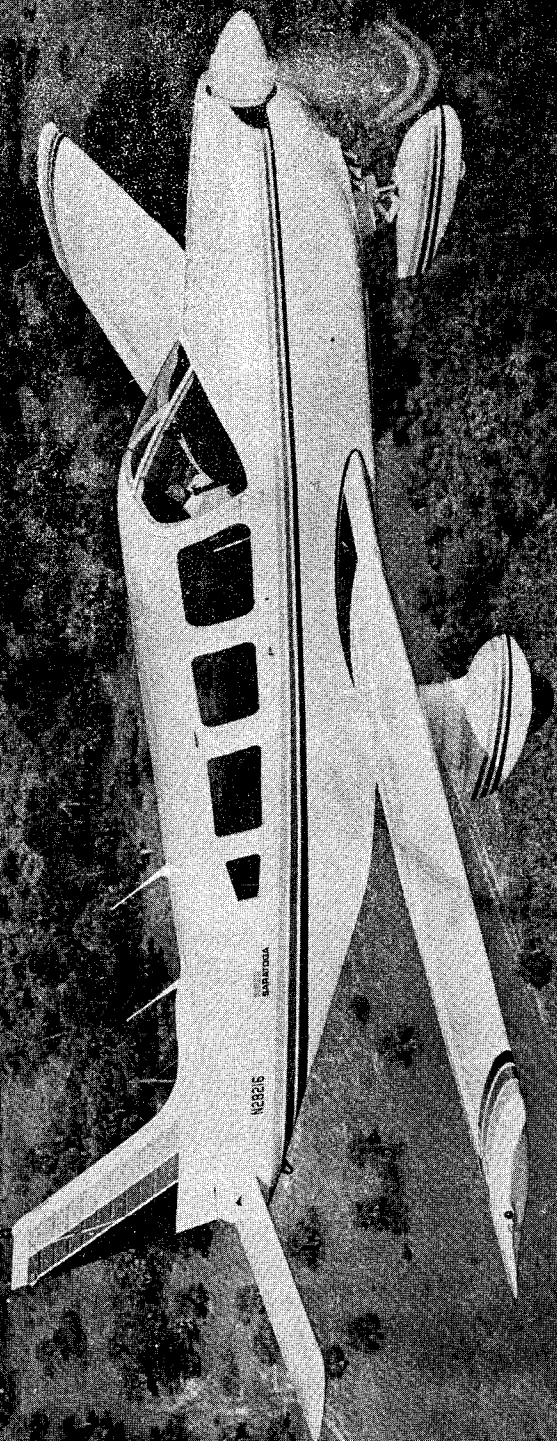
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WARNING

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: January 9, 1980

REPORT: VB-1060



Super Cub

N2821



APPLICABILITY

Application of this handbook is limited to the specific Piper PA-32-301 model airplane designated by serial 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 1-22, 2-1 through 2-10, 3-1 through 3-15, 4-1 through 4-26, 5-1 through 5-36, 6-1 through 6-58, 7-1 through 7-30, 8-1 through 8-17, 9-1 through 9-20, 10-1 through 10-2.

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS

Current Revisions to the PA-32-301, Saratoga Pilot's Operating Handbook, REPORT: VB-1060 issued January 9, 1980.

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 1 (PR800404)	6-42 9-i 9-21 thru 9-40	Revised info. Added info. Added supplements 6, 7, and 8.	<i>Ward Evans</i> Ward Evans April 4, 1980
Rev. 2 (PR800606)	9-i 9-21 thru 9-40	Revised pg. no. Relocated info.	<i>Ward Evans</i> Ward Evans June 6, 1980
Rev. 3 (PR801003)	1-4 2-2 2-3 2-4 2-9 4-15 4-17 4-26 5-20 5-25 6-i 6-6 6-10 6-23 6-24	Revised para. 1.7 (c). Revised para. 2.7 (g). Revised para. 2.7 g; Relocated para. 2.9 to pg. 2-3. Added para. 2.9 from pg. 2-3. Revised placard. Revised info. Revised para. 4.13 (b). Revised para. 4.37. Revised example in fig. 5-19. Revised fig. 5-27. Revised Table of Contents. Revised fig. 6-6. Revised para. 6.9 (f). Revised item 33. Added new items 49 and 50.	

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 3 (PR801003) (cont)	6-28	Relocated items 105 and 107 to pg. 6-29; added new item 103 b.	
	6-29	Added items 105 and 107 from pg. 6-28.	
	6-31	Revised item 119.	
	6-32	Revised items 121 and 125.	
	6-34	Relocated items to pg. 6-35; added new items 143 thru 147; renumbered items.	
	6-35	Added items from pg. 6-34; renumbered items.	
	6-42	Added new items 217 and 219.	
	6-42a	Added pg.; added new items 221 thru 229.	
	6-42b	Added pg.; added new items 231 thru 241.	
	6-43 thru 6-46	Renumbered items.	
	6-47	Renumbered items; added new items 285 and 287.	
	6-48	Renumbered items; added new items 295 and 299.	
	6-49 thru 6-51	Renumbered items.	
	6-52	Renumbered items; added new item 334.	
	6-53 thru 6-56 6-57	Renumbered items.	
6-57	Relocated items to pg. 6-58; added new items 389 thru 397.		

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 3 (PR801003) (cont)	6-58	Relocated items to pg. 6-59; added items from pg. 6-57; renumbered items.	<i>Ward Evans</i> Ward Evans Oct. 3, 1980
	6-59	Added pg.; added items from pg. 6-58; renumbered items.	
	7-12	Revised para. 7.15.	
	7-14	Revised fig. 7-13.	
	7-18	Revised fig. 7-17.	
	7-22	Revised para. 7.23.	
	7-23	Revised para. 7.25.	
	8-6	Revised para. 8.9 (c).	
	8-12	Relocated para. 8.21 (c) and (d) to pg. 8-12b.	
	8-12a	Added pg.; added new info. to para. 8.21 (b).	
	8-12b	Added pg.; added para. 8.21 (c) and (d) from pg. 8-12.	
	8-13	Revised item.	
	9-i	Added Supplements 9 thru 11.	
	9-5	Revised Section 5 of Supplement 1.	
	9-11	Revised Section 4 (8) a. and b. of Supplement 3.	
	9-41 thru 9-44	Added pgs.; added Supplement 9 (Century 21 Autopilot Installation).	
	9-45 thru 9-54	Added pgs.; added Supplement 10 (Century 41 Autopilot Installation).	
9-55 thru 9-56	Added pgs.; added Supplement 11 (Piper Control Wheel Clock Installation).		

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 4 (PR810211)	3-i	Revised Table of Contents.	
	3-4	Relocated info. from pg. 3-5.	
	3-5	Moved info. to pg. 3-4; changed title and revised procedure; added procedure.	
	3-6	Continued procedure; moved info. to pg. 3-7.	
	3-7	Relocated info. from pg. 3-6.	
	3-13	Revised and retitled para. 3.23.	
	3-14	Added para. 3.24; moved para. 3.27 and 3.29 to pg. 3-15.	
	3-15	Relocated para. 3.27 and 3.29; moved info. to pg. 3-16.	
	3-16	Added page; relocated info. from pg. 3-15.	
	6-21	Revised item 13.	
	6-27	Revised item 97.	
	6-28	Revised items 99, 101 and 103.	
	6-29	Typo correction.	
	6-31	Moved item 119c to pg. 6-32.	
	6-32	Relocated and revised item 119c; moved items 123, 125 and 127 to pg. 6-32a.	
	6-32a	Added page; relocated items 123, 125 and 127 from pg. 6-32.	
	6-32b	New page.	
	6-41	Added item 198.	
	6-46	Added item 270; moved item 275 to pg. 6-47.	
	6-47	Relocated item 275 from pg. 6-46; revised item 287; moved item 291 to pg. 6-48.	
6-48	Relocated item 291 from pg. 6-47; moved items 299 and 301 to pg. 6-49.		

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 4 (PR810211) (cont)	6-49	Relocated items 299 and 301 from pg. 6-48.	
	6-56	Revised item 287.	
	6-57	Revised items 389 thru 397; moved items 395 and 397 to pg. 6-57a.	
	6-57a	Relocated items 395 and 397 from pg. 6-57; relocated items 399 thru 405 from pg. 6-58.	
	6-57b	Relocated items 407 and 409 from pg. 6-58; relocated items 411 and 413 and info. from pg. 6-59.	
	6-58	Deleted page; moved items 399 thru 405 to pg. 6-57a; moved items 407 and 409 to pg. 6-57b.	
	6-59	Deleted page; moved items 411 and 413 and info. to pg. 6-57b.	
	7-12	Revised para. 7.15; relocated info. from pg. 7-13.	
	7-13	Moved info. to pg. 7-12; added note.	
	7-14	Revised Figure 7-13.	
	7-15	Revised para. 7.15 cont.	
	7-19	Revised para. 7.19.	
	8-14	Revised para. 8.23.	
	9-45	Revised Sec. 2 (c).	
Rev. 5 (PR810731)	ii	Revised Warning.	<p align="right"><i>Ward Evans</i> Ward Evans Feb. 11, 1981</p>
	1-5	Revised para. 1.13.	
	2-i	Changed page no.	
	4-4, 4-5,	Revised procedure.	
	4-6		
	4-8	Revised procedure.	

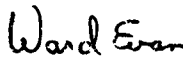
PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 5 (PR810731) (cont)	4-11	Added to procedure; moved info. to pg. 4-12.	
	4-12	Relocated info. from pg. 4-11.	
	4-16	Revised para. 4.9; moved info. to pg. 4-17.	
	4-17	Relocated info. from pg. 4-16.	
	4-21	Revised para. 4.21; moved info. to pg. 4-22.	
	4-22	Relocated info. from pg. 4-21.	
	4-24	Revised para. 4.29; moved info. to pg. 4-24a.	
	4-24a	New page; relocated info. from pg. 4-24; added to para. 4.29.	
	4-24b	New page.	
	6-26	Revised items 59, 61 and 63.	
	6-33	Revised item 133.	
	6-34	Revised item 147.	
	6-36	Revised item 169.	
	6-37	Added item 170.	
	6-40	Deleted item 193.	
	6-42	Revised item 219.	
	6-42b	Revised item 241.	
	6-45	Moved renumbered item to pg. 6-45a; moved item 267 to pg. 6-45b.	
	6-45a	Added items 264 and 265; relocated renumbered item from pg. 6-45.	
	6-45b	Relocated item 267 from pg. 6-45; relocated items 269 and 270 from pg. 6-46.	
6-46	Moved items 269 and 270 to pg. 6-45b; added item 272; relocated items 275 thru 279 from pg. 6-47.		

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 5 (PR810731) (cont)	6-47	Moved items 275 thru 279 to pg. 6-46; relocated items 291 and 293 from pg. 6-48.	<i>Ward Evans</i> Ward Evans July 31, 1981
	6-48	Moved items 291 and 293 to pg. 6-47; added item 295.	
	6-54	Revised item 367.	
	6-57a	Delete page; moved items 395 thru 405 to pg. 6-58; revised item 401.	
	6-57b	Delete page; moved items 407 thru 415 to pg. 6-59; added; item 415.	
	6-58	New page; relocated items from pg. 6-57a.	
	6-59	New page; relocated items from pg. 6-57b; delete info.	
	7-13	Revised para. 7.15.	
	8-10	Revised para. 8.15.	
	9-53	Revised (i) (2).	
Rev. 6 (PR811211)	1-7	Revised para. 1.19.	(Signature and Date for Rev. 6)
	4-4	Corrected error to para. 4.5.	
	4-14, 4-15	Revised para. 4.9.	
	6-4	Revised fig. 6-3 info.	
	6-19	Revised para. 6.13.	
	6-45	Relocated item 264 from pg. 6-45a.	
	6-45a	Moved item 264 to pg. 6-45; relocated item 267 from pg. 6-45b.	
	6-45b	Moved item 267 to pg. 6-45a; relocated items 271 and 272 from pg. 6-46.	

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

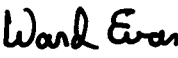
Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 6 (PR811211) (cont)	6-46	Moved items 271 and 272 to pg. 6-45b; relocated items 281 and 283 from pg. 6-47.	 Ward Evans Dec. 11, 1981
	6-47	Revised item 281; moved item 281 and 283 to pg. 6-46.	
	6-52	Added new item 335; moved items 334 and 335 to new pg. 6-52a.	
	6-52a	New pg.; relocated item 334 and new item 335 from pg. 6-52.	
	6-52b	New pg.	
	6-53	Renumbered item to 336; revised item 337.	
	6-58	Added notation to item 405.	
	7-22	Added info. to para. 7.23.	
	9-46	Revised Supplement 10, Section 3 (3) a.	
Rev. 7 (PR820804)	Title	Revised Title page.	
	iii	Revised para.	
	1-i	Revised Table of Contents.	
	1-1	Revised para. 1.1.	
	1-4	Revised para. 1.5.	
	1-9	Corrected spelling.	
	1-13	Deleted pages and para. 1.21.	
	thru		
	1-22		
	2-3	Revised para. 2.7.	
	3-i	Revised Table of Contents.	
	3-3,	Revised procedures.	
3-4,			
3-6			
3-10	Revised para. 3.13.		
4-i	Revised Table of Contents.		
4-ii	New page, cont. 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. 7 (PR820804) (cont)	4-8	Revised procedure.	
	4-20	Revised para. 4.19.	
	5-3 thru 5-8	Revised para. 5.5.	
	5-18	Revised title fig. 5-15.	
	6-i	Revised Table of Contents.	
	6-1	Revised para. 6.1.	
	6-2	Revised para. 6.3.	
	6-5	Revised para. 6.5.	
	6-6	Revised fig. 6-5.	
	6-7	Revised fig. 6-7.	
	6-11	Revised fig. 6-9.	
	6-15	Revised para. 6.11.	
	7-13	Revised para. 7.15.	
	7-18	Revised fig. 7-17.	
	7-19	Revised para. 7.19.	
	7-22	Revised para. 7.23; moved info. to pg. 7-23.	
	7-23	Relocated info. from pg. 7-22.	
	7-24	Revised para. 7.25; moved info. to pg. 7-26.	
	7-26	Relocated info. from pg. 7-24; revised para. 7.31; moved info. to pg. 7-27.	
	7-27	Relocated info. from pg. 7-26.	
	7-28, 7-29	Revised para. 7.37.	
	8-2	Revised para. 8.3.	
	9-i	Revised Table of Contents.	
9-7	Revised Sec. 3 (a).		
9-57 thru 9-76	Added Supplement 12 (KAP 100 Series Flight Control System).		
9-77 thru 9-102	Added Supplement 13 (KAP 150 Series Flight Control System).		

Ward Evans
 Ward Evans
 Aug. 14, 1982




PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 8 (PR831007)	1-9	Revised barometric pressure (mb).	 Ward Evans Oct. 7, 1983
	1-10	Deleted MEA.	
	2-10	Relocated fuel placard to pg. 2-11.	
	2-11	Added pg. (added new and relocated fuel placards).	
	5-6	Revised item (e).	
	5-7	Revised item (e) (3).	
	5-9	Revised Figures 5-27 thru 5-37.	
	5-23	Revised Figure 5-25.	
	5-25	Revised Figure 5-27 (deleted graph).	
	5-26	Revised Figure 5-29.	
	5-27	Revised Figure 5-31 (deleted graph).	
	5-28	Revised Figure 5-33.	
	5-29	Revised Figure 5-35 (deleted graph).	
	5-30	Revised Figure 5-37.	
	6-11	Revised Figure 6-9.	
7-15	Added Caution.		
8-2	Revised para. 8.3 info.		
8-3	Revised para. 8.5 info.		
8-4	Deleted para. 8.5 info.		
Rev. 9 (PR840917)	vii	Revised Table of Contents.	
	1-4	Revised para. 1.7.	
	3-1	Revised para. 3.1.	
	3-3	Revised para. 3.3.	
	3-10	Revised para. 3.13.	
	4-3	Revised para. 4.5.	
	thru		
	4-11		
	4-13	Revised para. 4.9.	
4-17	Revised para. 4.11.		

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 9 (PR 840917) (cont)	4-20	Revised para. 4.17 and 4.19.	
	4-22	Revised para. 4.23.	
	4-25	Revised para. 4.31 and 4.35.	
	4-26	Revised para. 4.37.	
	5-9	Revised para. 5.7.	
	5-25	Added Fig. 5-27.	
	6-21	Revised item 15.	
	7-i	Revised Table of Contents.	
	7-1,	Revised para. 7.3.	
	7-2		
	7-5	Revised Fig. 7-1.	
	7-7	Relocated info. from pg. 7-8.	
	7-8	Moved info. to pg. 7-7; revised para. 7.11; revised Fig. 7-5.	
	7-8a	New page; added Fig. 7-6.	
	7-8b	New page.	
	7-9	Revised para. 7.13.	
	7-12,	Revised para. 7.15.	
	7-13		
	7-14	Revised Fig. 7-13.	
	7-18	Revised Fig. 7-17.	
	7-20	Relocated info. from pg. 7-22.	
	7-22	Moved info. to pg. 7-20; revised para. 7.23.	
	7-26	Revised para. 7.31.	
	8-5	Revised para. 8.9.	
	8-12,	Revised para. 8.21 (b) and (d).	
	8-12b		
	9-i	Revised Table of Contents.	
	9-77	Revised Supplement 13, King	
	thru	KAP/KFC 150 Series Autopilot.	
	9-106		
	9-107	Added Supplement 14, Century	
	thru	31 Autopilot.	
	9-126		
9-127	Added Supplement 15, Sperry		
thru	WeatherScout Weather Radar		
9-132	System.		

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 9 (PR840917) (cont)	10-i	Revised titles; Table of Contents.	 Ward Evans Sept. 17, 1984
	10-1, 10-2	Revised page and para. titles.	
Rev. 10 (PR850628)	7-8	Revised para. 7.11.	 D.H. Trompler July 8, 1985
Rev. 11 (PR861020)	7-22 9-i 9-133 thru 9-138	Revised para. 7.27. Revised Table of Contents Added Supplement 16. Auxiliary vacuum System	 D.H. Trompler

12/3/86

Date

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 9 (PR840917) (cont)	4-20	Revised para. 4.17 and 4.19.	
	4-22	Revised para. 4.23.	
	4-25	Revised para. 4.31 and 4.35.	
	4-26	Revised para. 4.37.	
	5-9	Revised para. 5.7.	
	5-25	Added Fig. 5-27.	
	6-21	Revised item 15.	
	7-i	Revised Table of Contents.	
	7-1,	Revised para. 7.3.	
	7-2		
	7-5	Revised Fig. 7-1.	
	7-7	Relocated info. from pg. 7-8.	
	7-8	Moved info. to pg. 7-7; revised para. 7.11; revised Fig. 7-5.	
	7-8a	New page; added Fig. 7-6.	
	7-8b	New page.	
	7-9	Revised para. 7.13.	
	7-12,	Revised para. 7.15.	
	7-13		
	7-14	Revised Fig. 7-13.	
	7-18	Revised Fig. 7-17.	
	7-20	Relocated info. from pg. 7-22.	
	7-22	Moved info. to pg. 7-20; revised para. 7.23.	
	7-26	Revised para. 7.31.	
	8-5	Revised para. 8.9.	
	8-12,	Revised para. 8.21 (b) and (d).	
	8-12b		
	9-i	Revised Table of Contents.	
	9-77 thru	Revised Supplement 13, King KAP/KFC 150 Series Autopilot.	
	9-106 thru	Added Supplement 14, Century 31 Autopilot.	
	9-126 thru	Added Supplement 15, Sperry WeatherScout Weather Radar System.	
	9-127 thru		
9-132			