

## APPLICABILITY

Application of this handbook is limited to the specific Piper PA-28-161 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.

## WARNING

**INSPECTION, MAINTENANCE AND PARTS REQUIREMENTS FOR ALL NON-PIPER APPROVED STC INSTALLATIONS ARE NOT INCLUDED IN THIS HANDBOOK. WHEN A NON-PIPER APPROVED STC INSTALLATION IS INCORPORATED ON THE AIRPLANE, THOSE PORTIONS OF THE AIRPLANE AFFECTED BY THE INSTALLATION MUST BE INSPECTED IN ACCORDANCE WITH THE INSPECTION PROGRAM PUBLISHED BY THE OWNER OF THE STC. SINCE NON-PIPER APPROVED STC INSTALLATIONS MAY CHANGE SYSTEMS INTERFACE, OPERATING CHARACTERISTICS AND COMPONENT LOADS OR STRESSES ON ADJACENT STRUCTURES, PIPER PROVIDED INSPECTION CRITERIA MAY NOT BE VALID FOR AIRPLANES WITH NON-PIPER APPROVED STC INSTALLATIONS.**

## REVISIONS

The information compiled in the Pilot's Operating Handbook will be kept current by revisions distributed to the airplane owners.

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.
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### 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 by symbols.


## ORIGINAL PAGES ISSUED

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

Title, ii through v, 1-1 through 1-14, 2-1 through 2-8, 3-1 through 3-12, 4-1 through 4-16, 5-1 through 5-26, 6-1 through 6-56, 7-1 through 7-24, 8-1 through 8-16, 9-1 through 9-10; 10-1 through 10-2.





## PILOT'S OPERATING HANDBOOK LOG OF REVISIONS

Current Revisions to the PA-28-161 Cherokee Warrior II Pilot's Operating Handbook, REPORT:-VB-880 issued December 16, 1976.

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 1 - 761 649 (PR770224)	1-6	Corrected to "Meteorological."	 Ward Evans Feb. 24, 1977
	2-5	Revised 2.23.	
	3-11	Revised NOTE.	
	4-4	Revised Starting Engine When Hot procedure.	
	4-9	Revised 4.13 (b).	
	6-4	Revised Leveling Diagram illustration.	
	6-53	Revised Dwg. Nos. of items 277 and 279.	
	7-24	Added ELT test info.	
Rev. 2 - 761 649 (PR770711)	1-11, 1-12, 1-13, 1-14	Revised para. 1.21, Conversion Factors.	
	2-7	In 2.25, revised Takeoff and Landing Checklists to include air cond. info.; added air conditioning warning placard:	
	4-4	Added air cond. check to Ground Check.	
	4-5	Added air cond. directions to Before Takeoff and to Approach and Landing.	
	4-6	Added air cond. directions to Stopping Engine.	
	4-11	Added air cond. check to 4.19, Ground Check.	
	4-12	Added air cond. directions to 4.21, Before Takeoff.	
	4-14	Added air cond. directions to 4.29, Approach and Landing, and 4.31, Stopping Engine.	
	5-3	Revised Fig. nos. in item (b).	
	5-4	Revised Fig. nos. in footnote	
	5-5	Revised Fig. nos. in item (e).	
	5-9	Revised Fig. Nos.; revised Page Nos.; revised titles; added pages; added figures.	
	5-13	Relocated Normal Short Field Takeoff Dist. to 5-14; added new chart.	
	5-14	Relocated Obs. Clearance Short Field Takeoff Dist. to 5-16; added revised chart relocated from 5-13.	
	5-15	Relocated Eng. Perf. to 5-17; added new chart.	
5-16	Relocated Climb Perf. to 5-19; added revised chart relocated from 5-14.		
5-17	Relocated Fuel, Time and Dist. to Climb to 5-20; added chart relocated from 5-15; added ser. nos.		
5-18	Relocated Best Power Cruise Perf. to 5-21; added new chart.		



**PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)**

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 11 - 761 649 (PR811120) (cont)	6-47 6-48 6-48 6-55 7-10 7-21 9-20	Relocated items 229 and 231 from pg. 6-46; moved item 247 to pg. 6-48. Relocated item 247 from pg. 6-47. Added new item 277; renumbered items 278 thru 280. Added item 361. Revised para. 7.13. Revised para. 7.25. Corrected spelling errors.	 Ward Evans Nov. 20, 1981
Rev. 12 - 761 649 (PR890417)	3-i 3-1 4-i thru 4-ii 6-7 6-15 7-22 8-1 8-3 8-4 8-11 9-5 9-9	Revised Table of Contents Revised para. 3.1 Revised Table of Contents  Revised Figure 6-5. Revised para. 6.8. Revised para. 7.31 Revised para. 8.1 Revised para 8.3 Revised para. 8.5 Revised para. 8.19 and 8.21(b). Revised Section 3 (a) Revised Section 3 (a)	 D.H. Trompler <u>Aug. 23, 1989</u> Date
Rev. 13 - 761 649 (PR900913)	1-3 2-2  7-3 8-4	Revised para. 1.5 (c). Revised para's. 2.7 (j) and (l). Added para. 2.7 (m) and Notes. Revised para. 7.5. Revised para. 8.5.	 D.H. Trompler October 9, 1990
Rev. 14 - 761-649 (PR050425)	iii 4-13 4-15 8-1 8-2 8-3	Added Warning. Revised para. 4.27. Revised para. 4.31. Revised para. 8.1. Moved info. from page 8-1. Revised para. 8.3.	 Linda J. Dicken April 25, 2005

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## PILOT'S OPERATING HANDBOOK LOG OF REVISIONS

Current Revisions to the PA-28-161 Cherokee Warrior II Pilot's Operating Handbook, REPORT: VB-880 issued December 16, 1976.

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Rev. 1 - 761 649 (PR770224)	1-6	Corrected to "Meteorological."	<div style="text-align: right;"><i>Ward Evans</i></div> <div style="text-align: right;">Ward Evans Feb. 24, 1977</div>
	2-5	Revised 2.23.	
	3-11	Revised NOTE.	
	4-4	Revised Starting Engine When Hot procedure.	
	4-9	Revised 4.13 (b).	
	6-4	Revised Leveling Diagram illustration.	
	6-53	Revised Dwg. Nos. of items 277 and 279.	
	7-24	Added ELT test info.	
Rev. 2 - 761 649 (PR770711)	1-11, 1-12, 1-13, 1-14 2-7	Revised para. 1.21, Conversion Factors.	
		In 2.25, revised Takeoff and Landing Checklists to include air cond. info.; added air conditioning warning placard.	
	4-4	Added air cond. check to Ground Check.	
	4-5	Added air cond. directions to Before Takeoff and to Approach and Landing.	
	4-6	Added air cond. directions to Stopping Engine.	
	4-11	Added air cond. check to 4.19, Ground Check.	
	4-12	Added air cond. directions to 4.21, Before Takeoff.	
	4-14	Added air cond. directions to 4.29, Approach and Landing, and 4.31, Stopping Engine.	
	5-3	Revised Fig. nos. in item (b).	
	5-4	Revised Fig. nos. in footnote.	
	5-5	Revised Fig. nos. in item (e).	
	5-9	Revised Fig. Nos.; revised Page Nos.; revised titles; added pages; added figures.	
	5-13	Relocated Normal Short Field Takeoff Dist. to 5-14; added new chart.	
	5-14	Relocated Obs. Clearance Short Field Takeoff Dist. to 5-16; added revised chart relocated from 5-13.	
	5-15	Relocated Eng. Perf. to 5-17; added new chart.	
5-16	Relocated Climb Perf. to 5-19; added revised chart relocated from 5-14.		
5-17	Relocated Fuel, Time and Dist. to Climb to 5-20; added chart relocated from 5-15; added ser. nos.		
5-18	Relocated Best Power Cruise Perf. to 5-21; added new chart.		

**PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)**




Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 2 - 761 649 (PR770711) (cont)	5-19	Relocated Best Econ. Cruise Perf. to 5-23; added chart relocated from 5-16.	
	5-20	Relocated Best Power Mix. Range to 5-25; added chart relocated from 5-17.	
	5-21	Relocated Best Econ. Mix. Range to 5-27; added chart relocated from 5-18; added ser. nos.	
	5-22	Relocated Endurance to 5-29; added new chart.	
	5-23	Relocated Fuel, Time and Dist. to Descend to 5-30; added chart relocated from 5-19; added ser. nos.	
	5-24	Relocated Glide Perf. to 5-31; added new chart.	
	5-25	Relocated Landing Perf. to 5-32; added chart relocated from 5-20; added ser. nos.	
	5-26	Added new chart.	
	5-27	Added page; added chart relocated from 5-21; added ser. nos.	
	5-28	Added page (new chart).	
	5-29	Added page (chart relocated from 5-22).	
	5-30	Added page (chart relocated from 5-23).	
	5-31	Added page (chart relocated from 5-24).	
	5-32	Added page (chart relocated from 5-25).	
	6-33	Added items 67 and 69.	
	6-45	Revised item nos.; added item 213.	
	6-46	Revised item nos.; added items 229 through 235; relocated items to following page; added footnote.	
	6-47	Revised item nos.; added items 237 and 253; added relocated items; relocated items to following page; removed footnote.	
	6-48	Added items 259 and 263; added relocated items; added footnote.	
	6-49	Revised item nos.; revised items 273 and 275; added item 281; deleted footnote.	
	6-53	Revised item nos.; added item 325; revised item 329.	
	6-54	Revised item nos.	
	7-i	Added 7.37 to contents.	
	7-17	Added climate control panel to Fig. 7-15.	
	7-21	Revised air blower info. in 7.23.	
	7-24	Added 7.37, Air Conditioning; added footnote.	
	7-25, 7-26	Added pages.	
	9-i	Added Supplement 4 to contents.	

**PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)**

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date	
Rev. 2 - 761 649 (PR770711) (cont)	9-3	Added STC No. to Section 1 - General; in Section 2 revised (a); in Section 3 revised (a), deleted (c) and renumbered accordingly, revised (c) and (d); added Preflight to Section 4 and relocated material.	<p align="center"><i>Ward Evans</i></p> <p align="center">Ward Evans July 11, 1977</p>	
	9-4	Added relocated material; added Inflight heading; revised (a) through (d) and added (e).		
	9-5	Added STC No. to Section 1 - General; in Section 2 revised (a); in Section 3 revised (c) and (d); added (e) and NSD 360 procedures; relocated Section 4.		
	9-6	Added NSD 360 and NSD 360 A procedures; added relocated material; in Section 4 revised (a) (1), added (b) Radio Coupling heading and renumbered (3) and (4) to (b) (1) and (2); relocated material.		
	9-7	Added relocated material; completely revised sections (d) and (e).		
	9-8	Removed item (g).		
	9-11, 9-12, 9-13, 9-14	Added pages (Supplement 4 - Air Conditioning Installation).		
	Rev. 3 - 761 649 (PR780630)	1-4		Revised items 1.13 and 1.17.
		2-7		Added new takeoff checklist; revised lead sentence.
3-3, 3-7		Added info. to Engine Power Loss During Takeoff.		
4-5		Added info. to Before Takeoff.		
4-9		Revised items 4.13 (a), (b) and (c).		
4-12		Added info. to Before Takeoff.		
4-13.		Corrected info. under 4.23, Takeoff.		
5-5		Revised item 5.5 (e).		
5-19		Added Note to Figure 5-11.		
5-25		Added Note to Figure 5-19.		
5-26		Added Note to Figure 5-20.		
5-27		Added Note to Figure 5-21.		
5-28		Added Note to Figure 5-22.		
6-1		Revised info. under item 6.1.		
6-9, 6-10		Revised Figure No.		
6-35	Revised item 93; added item 94.			
6-41	Revised items 161 and 163.			
6-43	Revised and added info. to items 179 and 181; relocated info. to pg. 6-44.			
6-44	Added info. from pg. 6-43; added new items 184 and 185; existing item 185 changed to 186; relocated info. to pg. 6-45.			



**PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)**

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 3-761649 (PR780630) (cont.)	6-45	Added info. from pg. 6-44; revised item 201; re-located info. to pg. 6-46.	 Lot Ward Evans June 30, 1978
	6-46	Added info. from pg. 6-45; relocated info. to pg. 6-47.	
	6-47	Added info. from pg. 6-46; revised item 235; re-located info. to pg. 6-48.	
	6-48	Added info. from pg. 6-47; revised footnotes.	
	6-49	Revised items 273 and 275.	
	6-54	Revised item 351.	
	7-13	Revised Para. 7.15 info.	
	7-18	Revised Para. 7.21 info.	
	7-21	Added Caution to para. 7.23.	
	7-23	Revised para. 7.35.	
	8-12	Changed 8.21 (d) to (c).	
	8-13	Changed 8.21 (e) to (d).	
	8-i	Revised 8.29.	
	8-16	Revised para. 8.29.	
Rev. 4 - 761 649 (PR790226)	1-6	Revised para. 1.19.	 Ward Evans Feb. 26, 1979
	1-12	Revised para. 1.21.	
	1-13	Revised para. 1.21.	
	6-1	Revised para. 6.1.	
	6-19	Revised item 9.	
	6-33	Added items 71 and 73.	
	6-37	Revised item 113.	
	6-41	Added item 170.	
	7-12	Added Warning to para. 7.15.	
	7-13	Revised para. 7.15.	
7-23	Revised para. 7.35.		
Rev. 5 - 761 649 (PR790413)	6-49	Revised item 277; added item 278.	 Ward Evans April 13, 1979
	7-23	Revised para. 7.35.	
	7-24	Revised para. 7.35; relocated para. 7.37 to pg. 7-25.	
	7-25	Added info. from pg. 7-24.	
Rev. 6 - 761 649 (PR790703)	1-3	Added new engine designation.	
	1-7	Revised item 1.19 (e).	
	2-2	Added new engine designation.	
	2-3	Revised para. 2.11.	
	2-4	Revised para. 2.13.	
	2-7, 2-8	Revised para. 2.25 (revised existing placards, added new placards).	
	3-i	Added para 3.28, Carb. Icing.	
	3-4	Added Carb. Icing.	
	3-11	Added para. 3.28, Carb. Icing.	
	4-i	Added para. 4.28, Descent; revised pg. no.	
4-3	Revised para. 4.5, Preflight Check.		

**PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)**

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 6 - 761 649 (PR790703) (cont.)	4-4	Revised Before Starting Engine.	
	4-5	Added Descent; relocated Approach and Landing to pg. 4-6.	
	4-6	Added Approach and Landing from pg. 4-5.	
	4-7	Revised para. 4.9.	
	4-8	Revised para. 4.11.	
	4-14	Added para. 4.28, Descent; relocated para. 4.31 to pg. 4-15.	
	4-15	Added para. 4.31 from pg. 4-14.	
	5-3	Revised item 5.5 (a).	
	5-4	Revised item 5.5 (b) and (c).	
	5-5	Revised items 5.5 (d) and (e).	
	5-6	Revised items 5.5 (f) and (g).	
	5-20	Revised Figure 5-13.	
	5-25	Revised Figure 5-19.	
	5-26	Revised Figure 5-20.	
	5-27	Revised Figure 5-21.	
	5-28	Revised Figure 5-22.	
	5-29	Revised Figure 5-23.	
	5-30	Revised Figure 5-25.	
	5-31	Revised Figure 5-27.	
	6-1	Revised para. 6.1.	
	6-3	Added Caution to item 6.3 (a)(3).	
	6-11	Revised Figure 6-9.	
	6-12	Revised Figure 6-11.	
	6-14	Revised Figure 6-15.	
	6-17	Revised para. 6.9; added item 3; revised item 1.	
	6-19	Revised items 5, 7 and 9; added new items.	
	6-21	Revised item nos.; added new items.	
	6-23	Added new items.	
	6-25	Revised item nos.; added new items.	
	6-27	Revised items; added new items.	
	6-29, 6-33,	Revised items.	
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	6-37	Revised items; added new items.	
	6-38, 6-39	Revised items.	
6-41, 6-42	Revised items; added item.		
6-43, 6-44,	Revised items; added items.		
6-45, 6-46,			
6-47, 6-48,			
6-49, 6-53,			
6-54			
7-3	Revised para. 7.5.		
7-12	Revised para. 7.15 (added Warning).		
7-16	Revised para. 7.19.		
7-17	Revised Figure 7-15.		
7-20	Revised Figure 7-19.		
8-11	Revised para. 8.19.		
10-1	Revised para. 10.3.		

*Ward Evans*  
 Ward Evans  
 July 3, 1979

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 10 - 761 649 (PR810629)	ii 1-4 5-1 6-7 6-19 6-27 6-35 6-38 6-41 6-42  6-43 6-45 6-53 6-54 6-55 7-8 7-12	Revised Warning. Revised para. 1.13. Added warning. Revised Figure 6-5. Revised item 11 . Revised items 33, 35 and 39. Revised item 81. Revised item 132. Renumbered items. Renumbered items; added new items 175 and 176.  Renumbered items; added new item 183. Revised item 199. Revised item 342. Revised items 343, 344 and 345. Added item 361; removed info. Revised para. 7.11 Revised para. 7.15	<p style="text-align: center;"><i>Ward Evans</i> Ward Evans June 29, 1981</p>
Rev. 11 - 761 649 (PR8 11120)	2-1 3-1 4-i 4-1 4-3, 4-5, 4-6 4-8 4-12 4-13 4-14 4-15 4-16 6-17 6-19 6-40 6-44  6-45 6-46	Revised para. 2.1. Revised para. 3.1 . Amended pg. number. Revised para. 4.1 and 4.3. Revised para. 4.5.  Added Note to para. 4.9. Added Note to para. 4.21; moved info. to pg. 413. Relocated info. from pg. 4-12; moved info. to pg. 4-14. Relocated info. from pg. 4-13; added Note to para. 4.29; moved info. to pg. 4-15. Relocated info. from pg. 4-14; moved para. 4.35 to pg. 4-16. Relocated para. 4.35 from pg. 4-15. Revised para. 6.9. Revised item 7. Revised item 151 . Added new item 184; renumbered existing items 185 thru 1882 moved item 198 to pg. 6-45. Relocated item 198 from pg. 6-44; moved items 209 and 211 to pg. 6-46. Relocated items 209 and 211 from pg. 6-45; moved items 229 and 231 to pg. 6-47.	

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Rev. 11 - 761 649 (PR811120) (cont)	6-47	Relocated items 229 and 231 from pg. 6-46; moved item 247 to pg. 6-48.	<p align="center"><i>Ward Evans</i> Ward Evans Nov. 20, 1981</p>
	6-48	Relocated item 247 from pg. 6-47.	
	6-48	Added new item 277; renumbered items 278 thru 280.	
	6-55	Added item 361.	
	7-10	Revised para. 7.13.	
	7-21	Revised para. 7.25.	
	9-20	Corrected spelling errors.	
Rev. 12 - 761 649 (PR890417)	3-i	Revised Table of Contents	<p align="center"><i>D.H. Trompler</i> D.H. Trompler <u>Aug. 23, 1989</u> Date</p>
	3-1	Revised para. 3.1	
	4-i thru	Revised Table of Contents	
	4-ii		
	6-7	Revised Figure 6-5.	
	6-15	Revised para. 6.8.	
	7-22	Revised para. 7.31	
	8-1	Revised para. 8.1	
	8-3	Revised para. 8.3	
	8-4	Revised para. 8.5	
	8-11	Revised para. 8.19 and 8.21(b).	
Rev. 13 - 761 649 (PR900913)	9-5	Revised Section 3 (a)	<p align="center"><i>D.H. Trompler</i> D.H. Trompler October 9, 1990</p>
	9-9	Revised Section 3 (a)	
	1-3	Revised para. 1.5 (c).	
	2-2	Revised para's. 2.7 (j) and (l). Added para. 2.7 (m) and Notes.	
	7-3	Revised para. 7.5.	
8-4	Revised para. 8.5.		

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