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**SECTION 10**

**OPERATING TIPS**

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SECTION 10  
OPERATING TIPS

10.1 GENERAL

This section provides operating tips of particular value in the operation of the Cherokee Lance.

10.3 OPERATING TIPS

- (a) Learn to trim for takeoff so that only a very light back pressure on the control wheel is required to lift the airplane off the ground.
- (b) The best speed for takeoff is about 70 MPH IAS (61 KTS IAS) under normal conditions. Trying to pull the airplane off the ground at too low an airspeed decreases the controllability of the airplane in the event of engine failure.
- (c) Flaps may be lowered at airspeeds up to 125 MPH CAS (109 KTS CAS). To reduce flap operating loads, it is desirable to have the airplane at a slower speed before extending the flaps.
- (d) Before attempting to reset any circuit breaker, allow a two to five minute cooling off period.
- (e) Before starting the engine, check that all radio switches, light switches and the pitot heat switch are in the off position so as not to create an overloaded condition when the starter is engaged.
- (f) Strobe lights should not be operating when flying through overcast and clouds, since reflected light can produce spacial disorientation. Do not operate strobe lights when taxiing in the vicinity of other aircraft.
- (g) The rudder pedals are suspended from a torque tube which extends across the fuselage. The pilot should become familiar with the proper positioning of his feet on the rudder pedals so as to avoid interference with the torque tube when moving the rudder pedals or operating the toe brakes.
- (h) In an effort to avoid accidents, pilots should obtain and study the safety related information made available in FAA publications such as regulations, advisory circulars, Aviation News, AIM and safety aids.
- (i) The shape of the wing fuel tanks is such that in certain maneuvers the fuel may move away from the tank outlet. If the outlet is uncovered, the fuel flow will be interrupted and a temporary loss of power may result. Pilots can prevent inadvertent uncovering of the outlet by avoiding maneuvers which could result in uncovering the outlet.

Extreme running turning takeoffs should be avoided as fuel flow interruption may occur.

Prolonged slips or skids which result in excess of 2000 ft. of altitude loss, or other radical or extreme maneuvers which could cause uncovering of the fuel outlet must be avoided as fuel flow interruption may occur when tank being used is not full.

## APPLICABILITY

The aircraft serial number eligibility bracket for application of this handbook is 32R-7680001 through 32R-7680525. The specific application of this handbook is limited to the Piper PA-32R-300 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 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.
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 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 2-10, 3-1 through 3-14, 4-1 through 4-18, 5-1 through 5-28, 6-1 through 6-52, 7-1 through 7-28, 8-1 through 8-16, 9-1 through 9-6, 10-1 through 10-2.



## PILOT'S OPERATING HANDBOOK LOG OF REVISIONS

Current Revisions to the PA-32R-300 Cherokee Lance Pilot's Operating Handbook, REPORT: VB-750 issued August 1, 1975.

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 1 - 761 616 (PR750915)	1-7	Revised definition of Demonstrated Crosswind Velocity.	<p style="text-align: right;"><i>Ward Evans</i> Ward Evans Sept. 15, 1975</p>
	2-8	Revised emergency gear lever placard.	
	4-5	Revised Short Field Takeoff procedure; revised gear up Best Angle of Climb Speed designation.	
	6.1	Revised general info. - Paragraph 6.1.	
	6-36	Added item 103.	
	6-39	Added items 147, 149 and 151.	
	6-41	Revised items 163 and 165.	
	6-43	Added items 198 and 202; relocated items 205, 207 and 209 to pg. 6-44.	
	6-44	Added items 205, 207 and 209 from pg. 6-43; revised items 211 and 213.	
	6-45	Added item 226; revised item 229.	
	9-i	Added Supplements 2, 3, 4 and 5.	
	9-7, 9-8	Issued Pages (Added Supplement 2 - AutoFlite II)	
	9-9, 9-10, 9-11, 9-12	Issued Pages (Added Supplement 3 - AutoControl IIIB)	
	9-13, 9-14, 9-15, 9-16, 9-17, 9-18	Issued Pages (Added Supplement 4 - AltiMatic IIIC)	
	9-19, 9-20	Issued Pages (Added Supplement 5 - Piper Electric Pitch Trim)	
Rev. 2 - 761 616 (PR760105)	1-3	Added Engine Model No. and Ser. No. effectivity.	<p style="text-align: right;"><i>Ward Evans</i> Ward Evans Jan. 5, 1976</p>
	2-2	Added Engine Model No. and Ser. No. effectivity.	
	4-13	Added footnote.	
	6-19	Added Ser. No. to item 5; added item 6.	
	6-37	Removed Piper Dwg. No. from item 123.	
	6-44	Added items 204 and 206; relocated items 219 and 221 to page 6-45.	
	6-45	Added items 219 and 221 from page 6-44; relocated items 229 and 231 to page 6-46.	
	6-46	Added items 229 and 231 from page 6-45; revised item 229.	
	7-3	Added Engine Model No. and Ser. No. effectivity.	
	7-6	Revised Landing Gear info.	
	7-7	Added WARNING; revised Landing Gear info.	
7-27	Revised ELT pilot's remote switch info.		
8-5	Revised 8.7 ( a), items (1), (2), and (3).		

PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)


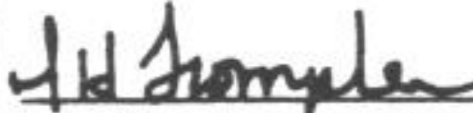
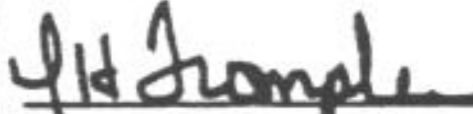
Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 3 - 761 616 (PR760514)	3-4 3-8 5-3 5-9  5-14 5-14a 5-14b 5-15  5-27 5-28 5-29  5-30  6-33 6-36	Revised Prop. Overspeed info. Revised Engine Power Loss in Flight info. Revised Takeoff and Landing info. Added Figures 5-8, 5-10, 5-33, 5-35, 5-37 and revised pg. nos. Revised 25° Flap Takeoff Performance graph. Added page (Added 25° Flaps Takeoff Ground Roll graph). Added page (Revised and relocated Flaps Up Takeoff Performance graph from pg. 5-15). Relocated graph to pg. 5-14b and added Flaps Up Takeoff Ground Roll graph. Revised Landing Performance graph. Added Landing Ground Roll graph. Added page (Added Landing Performance graph - Heavy Duty Group). Added page (Added Landing Ground Roll graph - Heavy Duty Group). Added Heavy Duty Group No. 1. Added A1285 Navigation Lights and Rotating Beacon.	                       Ward Evans Ward Evans May 14, 1976
Rev. 4 - 761 616 (PR770316)	1-6 3-4  3-12 4-15 5-3 5-4 5-5 5-6 5-18 7-3 7-27 7-28	Revised item 1.19 (b). Revised Emergency Landing Gear Extension Procedure. Revised para. 3.27. Revised para. 4.29. Revised item 5.5 (a) (6). Revised item 5.5 (c) (4). Revised items 5.5 (e) (2), (6) and (7). Revised items 5.5 (f) (1) and (g) (1). Revised Figure 5-15. Revised para. 7.5. Revised para. 7.39 info; added (a). Revised para. 7.39 info; added (b).	                       Ward Evans Ward Evans March 16, 1977
Rev. 5 - 761 616 (PR790205)	iii iv-a  1-4 1-6 1-11 thru 1-14 5-5 6-1 7-27	Revised applicability para. Revised date from March 3, 1977 to March 16, 1977 under Rev. 4 signature. Revised standard airplane weight info. Revised spelling. Revised para. 1.21 Conversion factors.  Revised item (e)(5). Revised para. 6.1 General. Revised para. 7.39.	                       



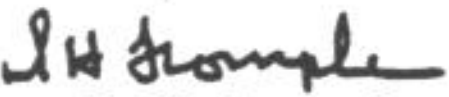
### PILOT'S OPERATING HANDBOOK LOG OF REVISIONS (cont)

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 5 - 761 616 (PR790205) (cont)	9-13 thru 9-18	Revised Altimatic IIIC Autopilot info.	<i>Ward Evans</i> Ward Evans Feb. 5, 1979
	9-19, 9-20	Revised Electric Pitch Trim info.	
Rev. 6 - 761 616 (PR840713)	v	Revised Table of Contents.	<i>Ward Evans</i> Ward Evans July 13, 1984
	1-3	Revised para. 1.3 and para. 1.7.	
	1-6	Revised para. 1.19(b).	
	1-7	Revised para. 1.19(e).	
	2-1	Revised para. 2.1.	
	2-2	Revised para. 2.7.	
	3-i	Revised Table of Contents.	
	3-1	Revised para. 3.1.	
	4-i	Revised Table of Contents.	
	4-1	Revised para. 4.1 and para. 4.3.	
	4-3, 4-4,	Revised para. 4.5.	
	4-5		
	4-7	Revised para. 4.7 and para. 4.9.	
	4-8	Revised para. 4.9 info. and para. 4.11.	
	4-11	Revised para. 4.17 and para. 4.19.	
	4-12	Revised para. 4.21.	
	5-1	Revised para. 5.1 and para. 5.3.	
	5-3, 5-4,	Revised para. 5.5.	
	5-5, 5-6		
	6-1	Revised para. 6.1.	
	6-3	Revised para. 6.3.	
	6-6	Revised para. 6.5.	
	6-7	Revised Fig. 6-5.	
	6-9	Revised Fig. 6-7.	
	6-10	Revised Fig. 6-7 (cont).	
	6-17	Revised para. 6.9.	
	6-19	Revised items 5 and 6.	
	7-3	Revised para. 7.5.	
	7-17	Revised para. 7.17 info.	
	7-25	Revised para. 7.33.	
	8-3	Revised para. 8.3.	
	8-4	Revised para. 8.5.	
8-11	Revised para. 8.21(b).		
10-i	Revised Table of Contents.		
10-1	Revised Title; revised para. 10.1 and para. 10.3.		
10-2		Revised Title.	

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

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 7 - 761 616 (PR851127)	3-i 3-3 3-4 3-5 3-8 3-9, 3-10	Revised Table of Contents. Revised para. 3.3. Relocated info from 3-3. Relocated info from 3-4. Revised para. 3.11. Revised para. 3.13.	 D.H. Trompler Nov. 27, 1985
Rev. 8 - 761 616 (PR870131)	2-8 3-3  3-4  3-7 3-9, 3-10 3-12  4-5  4-12 4-13  4-17  7-5 7-6  7-7  7-8 7-9 7-10 7-20	Revised para. 2.25. Revised Engine Power Loss During Takeoff Checklist and Power Off Landing Checklist Revised Emergency Landing Gear Extension check list Revised para. 3.9. Revised para. 3.13.  Revised para. 3.23. Revised para. 3.25. Added Note Revised Short Field, Obstacle Clearance check list Revised para. 4.21. Added Note to para. 4.25. Revised footnote. Revised para. 4.39. Added new info. Revised fig. 7.1. Revised fig. 7.3. Revised para. 7.11. Relocated Warning from page 7-7. Relocated Warning to page 7-6. Revised para. 7.11. Added new info. Revised fig. 7.5. Revised fig. 7.7. Revised fig. 7.9. Revised fig. 7.21.	 D.H. Trompler May 14, 1987 Date
Rev. 9 - 761 616 (PR900425)	iv-c 8-1 8-3 8-11	Added Revision 9 to Log of Revisions. Revised para. 8.1. Revised para. 8.3. Revised para. 8.19.	 D.H. Trompler May 3, 1990 Date

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

Revision Number and Code	Revised Pages	Description of Revision	FAA Approval Signature and Date
Rev. 10 - 761 616 (PR900921)	3-3 3-4  3-9 3-12 8-4	Editorial correction. Revised Emergency Landing Gear Extension check list. Revised para. 3.13. Revised para. 3.27. Revised para. 8.5.	 D. H. Trompler <u>October 18, 1990</u> Date