# DUPLICATE

# AIRPLANE FLIGHT MANUAL

FOR

# **CHEROKEE CRUISER**

APPLICABLE TO AIRCRAFT SERIAL NUMBERS 28-7425001 THROUGH 28-7625275

#### WARNING

EXTREME CARE MUST BE EXERCISED TO LIMIT THE USE OF THIS MANUAL TO APPLICABLE AIRCRAFT. THIS MANUAL REVISED AS INDICATED BELOW OR SUBSEQUENTLY REVISED IS VALID FOR USE WITH THE AIRPLANE IDENTIFIED BELOW WHEN APPROVED BY PIPER AIRCRAFT CORPORATION. SUBSEQUENT REVISIONS SUPPLIED BY PIPER AIRCRAFT CORPORATION MUST BE PROPERLY INSERTED.

MODEL PA-28-140

AIRCRAFT SERIAL NO. 28-7625122

REGISTRATION NO. \_\_\_\_

AIRPLANE FLIGHT MANUAL, REPORT NUMBER VB-557 REVISION

PIPER AIRCRAFT CORPORATION

APPROVAL SIGNATURE AND STAMP

NOTE

THIS MANUAL MUST BE KEPT IN THE AIRPLANE AT ALL TIMES

FAA APPROVED BY:

H. W. BARNHOUSE

PIPER AIRCRAFT CORPORATION

D.O.A NO. SO-1

VERO BEACH, FLORIDA

DATE OF APPROVAL: MAY 14, 1973

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**REPORT: VB-557** MODEL: PA-28-140

# **AIRPLANE FLIGHT MANUAL**

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# AIRPLANE FLIGHT MANUAL LOG OF REVISIONS

Revision	Revised Pages	Description and Revision	FAA Approved Date
1	Title	Added PAC Approval Form. (NOTE: AIRCRAFT DELIVERED WITH MANUALS PRIOR TO THIS REVISION DO NOT REQUIRE THIS REVISION.)	D. H. Trompler May 29, 1974
2	3-i 3-3 3-4 3-5	Added item G. Installation of Piper Auto-Control IIIB to Supplements. Revised Item I. 2. a., I. 2. b., and J. 1. Revised Item J. 2. Revised Items 1. and 2.	
	3-11 3-19, 3-20, 3-21, 3-22	Added Item G. Installation of Piper Auto-Control IIIB.  Added pages (AutoControl IIIB Supplement info added).	D. H. Trompler June 13, 1974
3	3-i	Under Supplements - deleted existing Items A., B. and E.; revised remaining Items.	
	3-5	Added "Spins Prohibited" to Item 2. under Maneuvers Placard for Utility Category with Air Cond. or Vent. Blower.	
	3-11 3-13	Deleted existing Items A., B. and E.; revised remaining Items.  Deleted Item A. Electric Pitch Trim Installation (Without Pitch Trim Switch).	
	3-14 3-15	Deleted Item B. AutoFlite Installation. Revised existing Item letter (C. to A.); deleted (With Pitch Trim Switch).	
	3-16 3-17 3-18 3-19	Revised existing Item letter (D. to B.).  Deleted Item E. AutoControl III Installation.  Revised existing Item Letter (F. to C.).  Revised existing Item letter (G. to D.); added	
	3-20	AutoControl III to Title.  Deleted IIIB designation from Items c. (1) and (2).	Ward Evans Nov. 1, 1974
4	3-22	Revised item c. (1).	Ward Evans Ward Evans Nov. 27, 1975
5	3-1	Revised item B. Fuel.	Ward Evans April 19, 1976

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# AIRPLANE FLIGHT MANUAL LOG OF REVISIONS (cont)

Revision	Revised Pages	Description and Revision	FAA Approved Date
6	Title	Added Applicable Serial Numbers. (NOTE: AIRCRAFT DELIVERED WITH MANUALS PRIOR TO THIS REVISION DO NOT REQUIRE THIS REVISION.)	Ward Evans Ward Evans Sept. 30, 1977
7	3-1 3-22	Revised item B. Fuel. Added ending serial number effectivity.	Ward Evans July 13, 1984

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#### SECTION I

#### LIMITATIONS

The following limitations must be observed in the operation of this airplane:

#### A. ENGINE

Lycoming O-320-E2A or O-320-E3D

**ENGINE LIMITS** 

For all operations 2700 RPM, 150 HP

#### B. FUEL

AVGAS ONLY

80/87 Octane Aviation Fuel Minimum Grade

#### C. PROPELLER

Sensenich M74DM or 74DM6, Maximum diameter 74 inches. minimum diameter 72-1/2 inches. Static RPM at maximum permissible throttle setting: Not under 2150, not over 2425 for max. allowable weight of 1950 lbs. Not under 2275, not over 2425 for max. allowable weight of 2150 lbs. No additional tolerance permitted.

#### D. POWER INSTRUMENTS

OIL TEMPERATURE Green Arc (Normal Operatin Red Line (Maximum)	g Range) 75°F to 245°F 245° F
OIL PRESSURE	
Green Arc (Normal Operatin	g Range) 60 PSI to 90 PSI
Yellow Arc (Caution Range)	70 TOT (0 DOT
Red Line (Minimum)	25 PSI
Red Line (Maximum)	90 PSI
FUEL PRESSURE	
Green Arc (Normal Operatin	g Range) .5 PSI to 8 PSI
Red Line (Minimum)	.5 PSI
Red Line (Maximum)	8 PSI
TACHOMETER	
Green Arc (Normal Operation	g Range) 500 to 2700 RPM

Red Line (Maximum Continuous Power)

2700 RPM

# E. AIRSPEED LIMITATIONS AND AIRSPEED INSTRUMENT MARKINGS (Calibrated Airspeed)

NEVER EXCEED	171 MPH
MAXIMUM STRUCTURAL CRUISE	140 MPH
MANEUVERING	129 MPH
FLAPS EXTENDED	115 MPH
MAXIMUM POSITIVE LOAD FACTOR	(Normal Category) 3.8
MAXIMUM POSITIVE LOAD FACTOR	(Utility Category) 4.4
MAXIMUM NEGATIVE LOAD FACTOR	No inverted maneuvers approved

# AIRSPEED INSTRUMENT MARKINGS

Red Radial Line (Never Exceed)	171 MPH (148 KTS)
Yellow Arc (Caution Range)	140 MPH to 171 MPH
(Smooth Air Only)	(121 KTS to 148 KTS)
Green Arc (Normal Operating Range)	64 MPH to 140 MPH
	(56 KTS to 121 KTS)
White Arc (Flap Down Range)	55 MPH to 115 MPH
, , ,	(48 KTS to 100 KTS)

# F. MAXIMUM WEIGHT

Utility Category	1950 LBS
Normal Category	2150 LBS

#### G. BAGGAGE CAPACITY

At Fuselage Station +117	200 LBS
At Fuselage Station +133 when modified in accordance with	
Piper drawing 66671	100 LBS

## H. C. G. RANGE

The datum used is 78.4 inches ahead of wing leading edge at the intersection of the straight and tapered section.

# 1. Normal Category

Weight (Pounds)	Forward Limit (In. Aft of Datum)	Rearward Limit (In, Aft of Datum)
2150	88.4	95.9
1975	85.9	95.9
1650	84.0	95.9

## 2. Utility Category

Weight (Pounds)	Forward Limit (In, Aft of Datum)	Rearward Limit (In Aft of Datum)
1950	85.8	86.5
1650	84.0	86 5

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Straight Line variation between given points.

#### NOTE

It is the responsibility of the airplane owner and/or the pilot to insure that the airplane is properly loaded. See Weight and Balance Section for loading information.

#### I. MANEUVERS

- Normal Category All acrobatic maneuvers including spins prohibited.
- Utility Category Approved maneuvers for Utility Category only.

a.	Models Without Air Conditioning	Entry Speed
	or Ventilation Blower	Ctall
	Spins (Flaps Up)	Stall
	Steep Turns	129 MPH
	Lazy Eights	129 MPH
	Chandelles	129 MPH
b.	Models With Air Conditioning	Entry Speed
	or Ventilation Blower	
	Steep Turns	129 MPH
	Lazy Eights	129 MPH
	Chandelles	129 MPH

# J. PLACARDS

In full view of the pilot:

1. Models Without Air Conditioning or Ventilation Blower
"THIS AIRPLANE MUST BE OPERATED AS A NORMAL OR
UTILITY CATEGORY AIRPLANE IN COMPLIANCE WITH
THE OPERATING LIMITATIONS STATED IN THE FORM OF
PLACARDS, MARKINGS AND MANUALS.

ALL MARKINGS AND PLACARDS ON THIS AIRPLANE APPLY TO ITS OPERATION AS UTILITY CATEGORY AIRPLANE. FOR NORMAL AND UTILITY CATEGORY OPERATIONS, REFER TO THE AIRPLANE FLIGHT MANUAL.

FOR SPIN RECOVERY, USE FULL RUDDER AGAINST SPIN, FOLLOWED IMMEDIATELY BY FORWARD WHEEL.

NO ACROBATIC MANEUVERS (INCLUDING SPINS) ARE APPROVED FOR NORMAL CATEGORY OPERATIONS."

2. Models With Air Conditioning or Ventilation Blower

"THIS AIRPLANE MUST BE OPERATED AS A NORMAL OR UTILITY CATEGORY AIRPLANE IN COMPLIANCE WITH THE OPERATING LIMITATIONS STATED IN THE FORM OF PLACARDS, MARKINGS AND MANUALS.

ALL MARKINGS AND PLACARDS ON THIS AIRPLANE APPLY TO ITS OPERATION AS A UTILITY CATEGORY AIRPLANE. FOR NORMAL AND UTILITY CATEGORY OPERATIONS, REFER TO THE AIRPLANE FLIGHT MANUAL.

NO ACROBATIC MANEUVERS ARE APPROVED FOR NORMAL CATEGORY OPERATIONS. SPINS ARE PROHIBITED FOR BOTH NORMAL AND UTILITY CATEGORIES."

In full view of the pilot, the following takeoff and landing check lists will be installed:

#### TAKEOFF CHECK LIST

Fuel on proper tank

Electric fuel pump on

Engine gauges checked

Flaps - set

Carb heat off

Mixture set

Seat backs erect

Seat backs erect

Controls - free

Door - latched

Air Conditioner - off

#### LANDING CHECK LIST

Fuel on proper tank
Mixture rich
Electric fuel pump on

Seat backs erect
Flaps - set (115 mph)
Fasten belts/harness
Air Conditioner - off

The "AIR COND OFF" item in the above takeoff and landing check lists is mandatory for air conditioned aircraft only.

In full view of the pilot, in the area of the air conditioner control panel when air conditioner is installed:

"WARNING - AIR CONDITIONER MUST BE OFF TO INSURE NORMAL TAKEOFF CLIMB PERFORMANCE."

REPORT: VB-557 PAGE 3-4 MODEL: PA-28-140 FAA APPROVED MAY 14, 1973 REVISED: JUNE 13, 1974 Adjacent to upper door latch:

#### "ENGAGE LATCH BEFORE FLIGHT."

On aft side of baggage compartment:

"UTILITY CATEGORY OPERATION - NO BAGGAGE OR AFT PASSENGERS ALLOWED. NORMAL CATEGORY OPERATION - SEE AIRPLANE FLIGHT MANUAL WEIGHT AND BALANCE SECTION FOR BAGGAGE AND AFT PASSENGER LIMITATIONS."

On the instrument panel in full view of the pilot when the oil cooler winterization kit is installed:

"OIL COOLER WINTERIZATION PLATE TO BE REMOVED WHEN AMBIENT TEMPERATURE EXCEEDS 50°F."

On the instrument panel in full view of the pilot when the AutoFlite is installed:

"FOR HEADING CHANGES: PRESS DISENGAGE SWITCH ON CONTROL WHEEL. CHANGE HEADING. RELEASE DISENGAGE SWITCH."

In full view of the pilot:

#### UTILITY CATEGORY ONLY

#### ACROBATIC MANEUVERS ARE LIMITED TO THE FOLLOWING:

1. Models Without Air Conditioning or Ventilation Blower

	Entry Speed STALL		
SPINS (FLAPS UP)			
STEEP TURNS	129 MPH		
LAZY EIGHTS	129 MPH		
CHANDELLES	129 MPH ·		

2. Models With Air Conditioning or Ventilation Blower

	Entry Speed
SPINS PROHIBITED	
STEEP TURNS	129 MPH
LAZY EIGHTS	129 MPH
CHANDELLES	129 MPH

In full view of the pilot:

"ROUGH AIR OR MANEUVERING SPEED - 129 MPH."

On the instrument panel in full view of the pilot when the AutoFlite II is installed:

"TURN AUTOFLITE ON. ADJUST TRIM KNOB FOR MINIMUM HEADING CHANGE. FOR HEADING CHANGE, PRESS DISENGAGE SWITCH ON CONTROL WHEEL, CHANGE HEADING, RELEASE SWITCH. ROTATE TURN KNOB FOR TURN COMMANDS. PUSH TURN KNOB IN TO ENGAGE TRACKER. PUSH TRIM KNOB IN FOR HI SENSITIVITY. LIMITATIONS AUTOFLITE OFF FOR TAKEOFF AND LANDING."

On the instrument panel in full view of the pilot when the supplementary white strobe lights are installed:

"WARNING - TURN OFF STROBE LIGHTS WHEN TAXIING IN VICINITY OF OTHER AIRCRAFT, OR DURING FLIGHT THROUGH CLOUD, FOG OR HAZE."

K. AIR CONDITIONED AIRPLANES Air Conditioner must be off for takeoff and landing.

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## **SECTION II**

## **PROCEDURES**

- 1. The stall warning system is inoperative with the master switch off.
- 2. The electric fuel pump must be on for both takeoff and landing.
- 3. Except as noted above, all operating procedures for this airplane are normal.
- 4. Air Conditioned Models only: Warning The air conditioner must be off to insure normal takeoff performance.

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#### **SECTION III**

#### PERFORMANCE

All performance is given for a weight of 2150 pounds.

Loss of altitude during stalls can be as great as 200 feet, depending on configuration and power.

Stalling speeds, in mph, power off, versus angle of bank (Calibrated Airspeed):

Angle of Bank	0°	20°	40°	50°	60°
Flaps Up	64	. 66	73	80	91
Flaps Down	55	_	_	<del>-</del>	<del>5.3</del> 8

Air Conditioner Models only:

When the full throttle position is not used or in the event of a malfunction which causes the compressor to operate and the condenser door to remain extended, a decrease in rate of climb of as much as 100 fpm can be expected at all altitudes.

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#### SECTION IV

#### **SUPPLEMENTS**

#### NOTE

A FLIGHT MANUAL SUPPLEMENT IS REQUIRED TO BE IN THE AIRPLANE FLIGHT MANUAL ONLY IF THE EQUIPMENT WHICH IS THE SUBJECT OF THE SUPPLEMENT IS INSTALLED.

- A. Electric Pitch Trim Installation
- B. AutoFlite II Installation
- C. Air Conditioner Installation
- D. Piper AutoControl III and/or AutoControl IIIB Installation

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# A. ELECTRIC PITCH TRIM INSTALLATION

The following emergency information applies in case of electric pitch trim malfunction:

- 1. In case of malfunction, disengage electric pitch trim by pushing pitch trim switch on instrument panel to OFF position.
- 2. In an emergency, electric pitch trim may be overpowered using manual pitch trim.
- 3. In cruise configuration, malfunction results in 10° pitch change and 30 ft altitude variation.

#### **AUTOFLITE II INSTALLATION**

#### LIMITATIONS 1.

AutoFlite off for takeoff and landing.

#### **PROCEDURES**

Normal Operation a.

Refer to Manufacturer's Operation Manual.

#### b. **Emergency Operation**

- (1) In case of malfunction, PRESS disconnect switch on pilot's control wheel.
- (2) Rocker switch on instrument panel OFF.
- (3) Unit may be overpowered manually.
  (4) In cruise configuration malfunction, 3 seconds delay results in 60° bank, and 100 ft altitude loss.
- (5) In approach configuration malfunction, 1 second delay results in 10° bank and 0 ft altitude loss.

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## C. AIR CONDITIONER INSTALLATION

Prior to takeoff, the air conditioner should be checked for proper operation as follows:

- 1. Check aircraft master switch on.
- 2. Turn the air conditioner control switch to "ON" and the fan switch to one of the operating positions the "AIR COND DOOR OPEN" warning light will turn on, thereby indicating proper air conditioner condenser door actuation.
- 3. Turn the air conditioner control switch to OFF the "AIR COND DOOR OPEN" warning light will go out, thereby indicating the air conditioner condenser door is in the up position.
- 4. If the "AIR COND DOOR OPEN" light does not respond as specified above, an air conditioner system or indicator bulb malfunction is indicated and further investigation should be conducted prior to flight.

The above operational check may be performed during flight if an in flight failure is suspected.

#### WARNING

The air conditioner must be off to insure normal takeoff performance.

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# D. PIPER AUTOCONTROL III AND/OR AUTOCONTROL IIIB INSTALLATION

#### 1. LIMITATIONS

a. Autopilot OFF during takeoff and landing.

b. Autopilot use prohibited above 140 MPH CAS.

#### 2. PROCEDURES

### a. PREFLIGHT

(1) Roll Section

- (a) Place Radio Coupler in "Heading" mode and place A/P ON/OFF switch in the "ON" position to engage roll section. Rotate roll command knob Left and Right and observe control wheel describes a corresponding Left and Right turn, then center knob.
- (b) Set proper D.G. Heading on D.G. and turn Heading Indice to aircraft heading. Engage "Heading" mode switch and rotate Heading Indice right and left. Aircraft control wheel should turn same direction as Indice. While D.G. indice is set for a left turn, grasp control wheel and override the servo to the right. Repeat in opposite direction for right turn.
- (c) If VOR signal available check Omni mode on Radio Coupler by swinging Omni needle left and right slowly. Observe that control wheel rotates in direction of needle movement.
- (d) Disengage by placing the A/P ON/OFF switch to the "OFF" position.

#### b. IN-FLIGHT

(1) Trim airplane (ball centered).

(2) Check air pressure or vacuum to ascertain that the Directional Gyro and Attitude Gyro are receiving sufficient air.

(3) Roll Section

- (a) To engage, center Roll Command Knob, place the A/P ON/OFF switch to the "ON" position. To turn rotate roll command knob in desired direction. (Maximum angle of bank should not exceed 30°.)
- (b) For heading mode, set Directional Gyro with Magnetic Compass. Push directional gyro HDG knob in, rotate to aircraft heading. Place the console HDG ON/OFF switch to the "ON" position. To select a new aircraft heading, push D.G. heading knob IN and rotate, in desired direction of turn, to the desired heading

#### NOTE

In HDG mode the maximum bank angles are limited to approximately 20° and single command, heading changes should be limited to 150°. (HDG Indice not more than 150° from actual aircraft heading.)

#### (4) VOR

- (a) To Intercept:
  - Using OMNI Bearing Selector, dial desired course, inbound or outbound.
  - 2. Set identical heading on Course Selector D.G.
  - After aircraft has stabilized, position coupler mode selector knob to OMNI mode. As aircraft nears selected radial, interception and crosswind correction will be automatically accomplished without further switching.

#### NOTE

If aircraft position is less than 45° from selected radial; aircraft will intercept before station. If position is more than 45°, interception will occur after station passage. As the aircraft nears the OMNI station, (1/2 mile) the zone of confusion will direct an "S" turn in alternate directions as the OMNI indicator needle swings. This alternate banking limited to the standard D.G. bank angle, is an indication of station passage.

- (b) To select new course:
  - 1. To select a new course or radial, rotate the HDG indice to the desired HDG (match course).
  - Rotate OBS to the new course. Aircraft will automatically turn to the intercept heading for the new course.
- (c) To change stations:
  - 1. If same course is desired, merely tune receiver to new station frequency.
  - 2. If different course is desired, position coupler mode selector to HDG mode. Dial course selector D.G. to new course. Dial OBS to new course and position coupler mode selector to OMNI mode.
- (5) VOR Approach

Track inbound to station as described in VOR navigation section. After station passage:

- (a) Dial outbound course on Course Selector D.G., then dial same course on OBS.
- (b) After established on outbound radial, position coupler mode selector to HDG mode and select outbound procedure turn heading. After 40 seconds to 1 minute select a turn in the desired direction with the Course Selector D.G. to the inbound procedure turn heading.
- (c) Set OBS to inbound course.
- (d) When aircraft heading is 45° to the inbound course, dial Course Selector D.G. to inbound course and position coupler mode selector to OMNI mode.

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#### NOTE

For precise tracking over OMNI station, without "S" turn, position coupler mode selector to HDG mode just prior to station passage. If holding pattern is desired, position coupler mode selector to HDG mode at station passage inbound and select outbound heading in direction of turn. After elapsed time, dial inbound course on Course Selector D.G. When aircraft heading is 45° to radial, position coupler mode selector to OMNI mode.

(6) LOC Approach Only

- (a) To intercept dial ILS outbound course on Course Selector D.G. When stabilized, position coupler mode selector to LOC REV mode.
- (b) After interception and when beyond outer marker, position coupler mode selector to HDG mode and dial outbound procedure turn heading. After one minute, dial inbound procedure turn heading in direction of turn.

(c) When aircraft heading is 45° to ILS inbound course dial inbound course on Course Selector D.G. and position

coupler mode selector to LOC NORM mode.

(d) At the missed approach point (M.A.P.), or when missed approach is elected, position coupler mode selector to HDG mode and execute missed approach procedure.

(7) LOC Approach - Back Course (Reverse)

- To intercept dial ILS Back Course outbound heading on Course Selector D.G. When stabilized, position coupler mode selector to LOC NORM mode.
- After interception and when beyond fix, position coupler mode selector to HDG and dial outbound procedure turn heading. After one minute, dial inbound procedure turn heading in direction of turn.

When heading 45° to inbound course, dial inbound course on Course Selector D.G. and position coupler mode selector

to LOC REV mode.

- (d) Approximately 1/2 mile from runway, position coupler mode selector to HDG mode to prevent "S" turn over ILS station near runway threshold.
- (e) Missed approach same as Front Course. (See (6) d)

#### **EMERGENCY OPERATION**

- (1) In an emergency the AutoControl can be disconnected by:
  - (a) Placing the A/P ON/OFF switch to the "OFF" position.
  - (b) Pulling the Autopilot circuit breaker (aircraft S/N 28-7625001 through 28-7625275).
- (2) The AutoControl can be overpowered at either control wheel.(3) An Autopilot runaway, with a 3 second delay in the initiation of recovery, while operating in a climb, cruise or descending flight could result in a 60° bank and 100 foot altitude loss.
- (4) An Autopilot runaway, with a 1 second delay in the initiation of recovery, during an approach operation, coupled or uncoupled, could result in a 10° bank and 10 foot altitude loss.
- PERFORMANCE No change.

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