Dena'ina Air Taxi

King Air 200 Maneuvers and Procedures Manual



Principal Base of Operations:

Dena'ina Air Taxi 1000 Merrill Field Drive Anchorage, AK 99501

TABLE OF CONTENTS

Table of Contents	1
Revisions	2
Effective Pages	3
Use of the Flight Maneuvers	4
V-Speeds	4,5
Before Takeoff	
Normal Takeoff	
Crosswind Takeoff	
Short Field Takeoff	
Soft Field Takeoff	
Rejected Takeoff	8
Normal Approach & Landing	9
Crosswind Landing	9
Short Field Landing	10
Soft Field Landing	
Rejected (Balked) Landing	
2,	
Steep Turns	11
Takeoff Configuration Stall	
Landing Configuration Stall	
Clean Configuration Stall(Autopilot On)	
Olean Configuration Staffy Autophot On)	12
Customs and Equipment Malforestions and Epilones	40
Systems and Equipment Malfunctions and Failures	
Unusual Attitudes/ Partial Panel	
Emergency Descent	13
Engine Failure After Liftoff	
Maneuvering With One Engine Inoperative	
One Engine Inoperative Instrument Approach	14
Standard Instrument Takeoff	15
Lower Than Standard Instrument Takeoff	15
Holding Patterns	15
Non-Precision Approach, Landing & Missed Approach	
ILS Approach, Landing & Missed Approach	
GPS Approach, Landing & Missed Approach	
Circling Approach, Landing & Missed Approach	

REVISIONS

It is the responsibility of the Director of Operations or Chief Pilot to keep the King Air 200 Maneuvers current.

All revisions will be submitted to the FAA for approval prior to being implemented. Revision

control is accomplished in the upper right-hand corner of each page as follows

Page 1 Original 09/15/24

1 Represents Page 1.

Original Represents Original document (not yet revised)

09/15/24 Represents the date the original document (or revision) became effective.

LOG OF REVISIONS

Rev. No. Original	Date	Page Numbers	Initials
Original	09/15/24	All	agl

EFFECTIVE PAGES

This list shows the current revision and effective date of each page.

Page	Revision	Date
1	Original	9/15/2024
2	Original	9/15/2024
3	Original	9/15/2024
4	Original	9/15/2024
5	Original	9/15/2024
6	Original	9/15/2024
7	Original	9/15/2024
8	Original	9/15/2024
9	Original	9/15/2024
10	Original	9/15/2024
11	Original	9/15/2024
12	Original	9/15/2024
13	Original	9/15/2024
14	Original	9/15/2024
15	Original	9/15/2024
16	Original	9/15/2024
17	Original	9/10/2024
18	Original	9/10/2024

FAA Initial Approval Office AL03 Effective Date 9/17/24 Expiration Date 9/30/2026 James Howery, POI



USE OF THE FLIGHT MANEUVERS

The flight maneuvers contained herein are designed to support the flight training curriculum segment. The procedures established for each maneuver are designed to standardize company flight training.

All crewmembers are expected to demonstrate knowledge and proficiency in each maneuver (both ground and flight) listed in the flight training curriculum segment in accordance with the standards set forth in the applicable airman certification standards guide.

Instructors and check airman will be familiar with the ATP (FAA-S-ACS-11), Commercial Pilot (FAA-S-ACS-7A), or Instrument Rating (FAA-S-ACS-8B) Airman Certification Standards as applicable, °prior to conducting training & testing.

These flight training maneuvers do not replace the aircraft performance and operating limitations published in the King Air 200 AFM. Compliance with the FAA Limitations section is mandatory for all flight operations.

Training Considerations:

- Flight training sessions should be preceded and followed by an instructor briefing and debriefing.
- Flight training maneuvers should be completed above 3,000' AGL.
- Flight training maneuvers should be modified as necessary to comply with ATC instructions.
- For traffic avoidance ADSB and ATC Traffic Advisory services should be used whenever possible.
- Clearing turns should be conducted as necessary prior to initiating the maneuver.
- Instructors should emphasize use of appropriate Checklists and single or multi-crewmember resource management.
- Instructors will provide a view limiting device for applicable maneuvers.
- Instructors should combine maneuvers whenever possible.

King Air 200 Speeds (KIAS at gross weight)

VMCG	84	Ground Minimum Control Speed
VMCA	86	Air Minimum Control Speed
VR	95	Takeoff Decision Speed/ Rotation Speed Flaps 0% (0°)
V1	95	Takeoff Decision Speed/Rotation Speed Flaps 40 % (14°)
V2	121	Takeoff Safety Speed
VY	125	Two Engine Best Rate of Climb Speed
VYSE	121	Single Engine Best Rate of Climb Speed
Vx	100	Two Engine Best Angle of Climb Speed
V_{XSE}	115	Single Engine Best Angle of Climb Speed
V_{SSE}	104	Intentional One-engine Inoperative Speed
V_{FE}	200	Approach Flaps - 40% (14°)
	146	Full Flaps - 100% (35°)
VLO	181	Landing Gear Operating Speed - Extension
VLO	163	Landing Gear Operating Speed - Retraction
VLE	181	Landing gear extended max speed
VA	170	Maneuvering Speed
VMO	259	Max operating speed (also max autopilot speed)

King Air 200 Maneuvers

5/Original/9/15/24

Procedure	Reference speeds
135	Maximum Glide Range
170	Turbulent Air Penetration Speed
100	Balked Landing
226	Effective Windshield Deicing Maximum Speed
181	Emergency Descent
140	Icing Conditions Minimum Speed
140	Air Start Minimum Speed
205	Flight with Cabin Entrance Door Removed

Maximum demonstrated crosswind

Cruise Climb Speeds

25

160	Sea Level to 10,000'
140	10,000 to 20,000'
130	20,000 to 25,000'
120	25,000 to 35,000'

Stall Speeds - Power Idle, 0° Bank Angle

75	Flaps 100% (35°) V
85	Flaps 40% (14°)
99	Flaps 0% (0°) VS1

Takeoff Speed Flaps 0%			Takeoff Speed Flaps 40% (14°)				
WEIGHT	VR	V2	VYS E	WEIGHT	VR	V2	VYS E
1 2,500	95	121	121	12,500	94	106	121
12,000	95	119	119	12,000	94	105	119
11.500	95	117	118	11,500	94	104	118
11,000	95	115	117	11,000	94	103	117
10,500	95	113	116	10,500	94	102	116
10,000	95	111	114	10,000	94	101	114
9,500	95	110	113	9,500	94	100	113
9,000	95	108	111	9,000	94	99	111

BEFORE TAKEOFF

The following procedures are applicable to all takeoff maneuvers:

Checklist Complete Final Items Checklist

Approach Zone Verify clear before taxiing into position on runway Runway Align with centerline and crosscheck heading

NORMAL TAKEOFF - Flaps °

The purpose of this takeoff is to make a smooth transition from ground roll to flight on a hard surfaced or frozen runway, assuming a headwind or no wind, and no obstacles in the takeoff path.

Checklist Complete

Flaps As required - Note: Flaps 0° VR 95

Brakes KIAS As required

Ailerons Neutral

Elevator Hold slightly nose high to lighten load on nose landing gear

Power Advance smoothly to full power - 2,000 ft-lbs torque (Note: Auto ignition

lights out, auto feather lights on, two out/two on)

Rudder Maintain runway alignment

Rotate VR/V1- 95 KIAS, 7° pitch attitude (Note: See takeoff speeds chart)

Gear UP - after positive rate of climb Retract after passing blue line

Airspeed VY - 125 KIAS

Lights OFF Yaw Damper ON

Power Set climb power - 1,800 RPM / 2,000 ft-lbs torque

Checklist Complete appropriate checklist

Airspeed Cruise climb 160 KIAS through 10,000' (Note: Minimum in-flight icing speed

is 140 KIAS)

CROSSWIND TAKEOFF

The purpose of this takeoff is to coordinate correct use of flight controls and assure a safe and smooth transition from ground roll to flight in crosswind conditions.

Follow the procedures for a normal takeoff with the following modifications:

Checklist Complete
Flaps As required
Brakes As required

Ailerons Hold into wind - upwind wheel leaves ground last

Elevator Neutral - to assist keeping nose wheel on ground and directional

control

Power Advance smoothly to full power - torque 2000 (Note: auto ignition

lights out, auto feather lights on, two out/two on)

Rotate VR/V1 - 95 KIAS, add 10 KIAS in gusty wind conditions. (See

takeoff speeds charts), maintain runway alignment - when airborne

allow airplane to crab into wind to maintain extended runway

Gear centerline UP - after positive rate of climb

Flaps Retract after passing blue line

Airspeed VY-125 KIAS

Lights OFF Yaw Damper ON

Power Set climb power - 1,800 RPM / 2,000 ft-lbs torque

Checklist Complete appropriate checklist

Airspeed Cruise climb 160 KIAS through 10,000' (Note: Minimum in-flight icing

speed is 140 KIAS)

SHORT FIELD TAKEOFF - Flaps 40% (14°)

The purpose of this takeoff is to get airborne with the shortest take off roll distance due to a limited runway length or obstacles in the immediate takeoff path and once airborne climb at the best angle of climb until obstacles are cleared.

Check list Complete Flaps 40% (14°)

Brakes Limit use on gravel; otherwise apply until takeoff power is

reached and then release. See note

Ailerons Neutral

Elevator Hold slightly nose high to lighten load on nose landing gear

Power Advance smoothly to full power - 2000 ft-lbs torque (Note: auto ignition

lights out, auto feather lights on, two out/two on)

Rudder Maintain runway alignment

Rotate 95 KIAS (V1/VR) - Pitch 10° nose up and press pitch sync button (Note:

See takeoff speeds charts)

Gear UP - after positive rate of climb

Flaps Do not retract until clear of obstacles and passing blue line

Airspeed 100 KIAS (VX) until obstacles are cleared

Lights Off Yaw Damper ON

Power Set climb power - 1,800 RPM / 2,000 ft-lbs torque

Checklist Complete appropriate checklist

Airspeed Cruise climb 160 KIAS through 10,000' (Note: Minimum in-flight icing

speed is 140 KIAS)

Note: If runway is gravel use enough brakes to allow the aircraft to roll slowly until 2000 RPM is reached then fully release brakes and set maximum takeoff power. Experience has shown as long as the aircraft has some movement the propellers generally do not pick up excessive gravel. When taxiing on gravel runways pilot should be aware of wind direction and velocity at all times.

When taxiing with a tailwind component pilots should use as little power as possible and make every attempt not to stop aircraft prior to beginning the takeoff roll. It may be necessary to complete the runup at a reduced power setting or while taxing

SOFT/ROUGH FIELD TAKEOFF

A field is considered soft if the tires leave a depression in the surface. The purpose of this takeoff is to get airborne at the lowest possible airspeed and accelerate to V X or VY in ground effect. The "rolling" take off technique should be used as much as possible. The aircraft should be configured before starting taxi.

Checklist Complete
Flaps 40% (14°)
Brakes Do not use
Ailerons Neutral

Elevator Hold slightly nose high to lighten load on nose landing gear.

Power Advance smoothly to full power Rudder Maintain runway alignment

Rotate At 85 KIAS pitch 5°-7° up (add 10 KIAS for gusty conditions)

Gear UP - after positive rate of climb Flaps Retract after passing blue line

Airspeed Accelerate through blue line to 125 KIAS while maintaining positive

rate of climb.

Power Set climb power - 1800 RPM / 2000 ft-lbs torque

Checklist Complete appropriate checklist

Airspeed Cruise climb at 160 KIAS through 10,000' (Note: Minimum inflight icing

speed is 140 KIAS)

REJECTED TAKEOFF

This maneuver provides training in positive aircraft control for stopping the aircraft if a malfunction or sudden runway intrusion occurs during the takeoff roll. The instructor will simulate an "engine failure" by reducing power on one engine during the initial takeoff phase with adequate runway remaining and 50% below VMCG of 84 KIAS.

Power Levers Idle

Reverse As required - out of reverse by 60 KIAS unless actual emergency & short

runway.

Braking Maximum braking consistent with safety and runway conditions

If aircraft cannot be stopped on runway and time allows:

Condition Levers FUEL CUT-OFF Fuel Firewall Valves CLOSED

Master Switch OFF (Gang bar down)

Passengers Assist with evacuation if necessary

NORMAL LANDING

The purpose of the normal landing is to execute a smooth touchdown and rollout on a hard surfaced runway with ample landing area. The procedure assumes a normal pattern approach with a head wind or no wind.

Airspeed 130 KIAS in pattern
Gear DOWN abeam runway
Checklist Complete Landing Checklist
Lights Landing light ON for visibility

Flaps 40% (14°) initially then 100% (35°) on final

Airspeed 120 KIAS on final then see threshold speed charts Prop 2,000 RPM, prop sync off, auto feather on Maintain

Rudder directional control

Aileron Neutral

Power Reduce to idle as main wheels are touching down Touchdown Slightly nose high keep nose light on rollout

Reverse Max reverse as main wheels touch down. Come out of reverse when slowing

through 60 KIAS.

Flaps Retract

Elevator Gently lower nose wheel as airspeed diminishes

Ailerons As required Brakes As required

Checklist When clear of runway complete After Landing Checklist.

	THRESHOLD SPEEDS			
	(FLAPS 100%)			
12,500	103	10,500	98	
12,000	102	10,000	96	
11,500	101	9,500	95	
11,000	99	9,000	93	

THRESHOLD SPEEDS (Flaps 100%) (Flaps 0%)				
	(1 tape 10070)	(: iapo 070)		
12,500	103	132		
12,000	102	130		
11,000	99	126		
10,000	96	122		
9,000	93	117		

CROSSWIND LANDING

The purpose of the crosswind landing is to land the airplane with a coordinated and straight approach in relation to the runway centerline under crosswind conditions.

Airspeed 120 KIAS in pattern
Gear DOWN abeam runway
Checklist Complete Landing Checklist
Lights Landing light ON for visibility

Flaps As required - Consider reduced flap setting in strong/gusty winds

Airspeed 103 KIAS - gusty conditions add 10 KIAS

Rudder Crab into wind

Aileron Into wind and change to slip just prior to touchdown

Power Use power as required on upwind engine to aid in directional control

Touchdown Upwind wheel should contact first with no side drift

Reverse Max reverse as main wheels touch down. Come out of reverse when slowing

through 60 KIAS.

Flaps Retract

Elevator Lower gently but quick ly to maintain ground control.

Ailerons Increase deflection into wind as speed diminishes.

Brakes As required

Checklist When clear of runway complete After Landing Checklist

SHORT FIELD LANDING

The purpose of the short field landing is to land at or near the threshold at a low speed. If the effective runway length is reduced due to obstacles in the approach path, then consider the situation to be a short field landing also. There should be little or no floating during round out so airplane can be stopped in shortest distance possible.

Airspeed 120 KIAS in pattern
Gear DOWN abeam runway
Checklist Complete Landing Checklist
Lights Landing light ON for visibility

Flaps 40% (14°) initially then 100% (35°) on final

Airspeed 85 KIAS short final

Prop Full forward - 2.000 RPM, condition levers full forward

Rudder Maintain directional control

Aileron Neutral

Power Reduce to idle as main wheels are touching down Touchdown Slightly nose high keep nose light on rollout

Reverse Max reverse as main wheels touch down. Come out of reverse when slowing

through 60 KIAS.

Flaps Retract as main wheels contact. This will give maximum braking effectiveness.

Elevator Gently lower nose wheel as airspeed diminishes

Ailerons As required

Brakes Maximum breaking effort

Checklist When clear of runway complete After Landing Checklist.

SOFT/ROUGH FIELD LANDING

The purpose of this type of landing is to land the airplane softly and maintain a smooth and consistent rollout to avoid damage to the prop and landing gear. Slightly higher power is used throughout the final approach to reduce the rate of descent and allow the airplane to gradually contact the runway surface. A field is considered soft if it is sandy, muddy, slushy or has snow on it.

Airspeed 120 KIAS in pattern DOWN Gear abeam runway Complete

Checklist Landing Checklist

Lights Landing light ON for visibility

Flaps 40% (14°) initially then 100% (35°) on final

Airspeed 85 KIAS short final

Rudder Maintain directional control

Aileron Neutral

Power As needed to ensure smooth touchdown
Touchdown Slightly nose high keep nose light on rollout

Flaps Retract

Elevator Gently lower nose wheel at minimum airspeed

Ailerons As required

Brakes Minimum Required

Checklist When clear of runway complete After Landing Checklist.

REJECTED (BALKED) LANDING

The purpose of this maneuver is to develop proficiency in executing a go -around procedure just prior to touchdown. The landing gear and flaps will be down and the "Before Landing" Checklist completed. At any time on final approach prior to 50' AGL the instructor will announce: "Go Around".

Power Set maximum allowable

Pitch 10° UP

Flaps Approach - 40% (14°)

Gear UP after positive rate of climb Accelerate to 125 KIAS (VY)

Flaps UP

Checklist Complete Climb Checklist Airspeed Cruise climb at 140 - 160 KIAS

STEEP TURNS

The purpose of this maneuver is to control the airplane in steep bank angles with a minimum loss or gain of altitude.

Heading Select cardinal heading

Power 1000 ft-lbs torque & 1800 RPM

Airspeed 170 KIAS

Entry Smoothly roll into a 45° bank turn

Power Increase 200 - 300 ft-lbs torque rolling through 30° to maintain

airspeed and altitude

Monitor ADI/VSI/Altimeter

Controls Lead rollout heading approximately 15°

Power Reduce 200 - 300 ft-lbs torque when rolling out of maneuver Pitch Trim out back pressure and rollout on initial heading while

maintaining altitude and airspeed

Controls Roll into a 360° turn in opposite direction and repeat maneuver

.

TAKEOFF CONFIGURATION STALL

Power As required to establish VY (125 KIAS) in level flight

Gear Down (below 181 KIAS)

Flaps 40% (14°)

Power Maximum power (see note)

Pitch Establish 20°bank and gradually increase pitch until first stall indication

At Stall Indication:

Pitch Reduce to eliminate stall indication & level wings Power Set maximum allowable - 2000 ft-lbs torque

Gear UP - after positive rate of climb Airspeed Accelerate to VY (125 KIAS)

Flaps UP

Note: Due to excessive pitch angles at reduced aircraft weights the instructor may have the pilot use a reduced power setting, but not less than 65% power.

LANDING CONFIGURATION STALL

Power As required to establish VY (125 KIAS) in level flight. 1800 RPM / 1000 ft.-

lbs. torque

Gear Down below 181 KIAS Flaps Approach then full

Power Reduce to establish 3° stabilized descent

Pitch Increase gradually until first indication of stall - stop trimming at 120 KIAS

and use elevator from 120 to stall indication - Do not trim all the way to stall

At Stall Indication:

Pitch Reduce to eliminate stall indication & level wings
Power Set maximum allowable 1800 RPM / 2000 ft.-lbs torque

Flaps Retract to approach 40% (14°)
Gear UP - after positive rate of climb
Airspeed Accelerate to VY (125 KIAS)

Flaps UP

CLEAN CONFIGURATION STALL (Autopilot On)

Power As required to establish 1.2 VS0 in level flight. Stop trimming at 120 KIAS

and use elevator from 120 to stall indication. Set 300 ft Lbs torque.

Autopilot On

Pitch Let autopilot Increase pitch gradually until first indication of stall

At Stall Indication:

Autopilot Disconnect

Pitch Reduce to eliminate stall indication & level wings

Power Set cruise power or as instructed and recover to initial altitude

SYSTEMS AND EQUIPMENT MALFUNCTIONS AND FAILURES

At the instructor's option and without advance warning, the instructor will simulate and/or announce various system and equipment malfunctions, failures, and conditions. The student shall explain or demonstrate (as directed by the instructor), the appropriate procedures to address the simulated or announced conditions. These may include, and may not be limited to:

- · Partial or complete power loss
- Loss of oil pressure
- Fuel starvation
- Electrical malfunction
- Vacuum/ pressure, and associated flight instruments malfunction
- Pitot / static
- Landing gear or flap malfunction
- Inoperative trim
- · Inadvertent door or window opening
- Structural icing
- · Smoke/ fire/ engine compartment fire

UNUSUAL ATTITUDES / PARTIAL PANEL

The instructor will simulate partial panel and put the airplane in the following attitudes prior to recovery back to normal cruise flight:

Nose Low - Airspeed Increasing

Power Reduce as required

Wings Roll level

Pitch Slowly increases to stabilized attitude

Power Increase as required

Nose High - Airspeed Decreasing

Power Increase as required

Pitch Reduce to stabilized attitude

Wings Roll level

Power Decrease as required

EMERGENCY DESCENT

The purpose of this maneuver is to achieve the maximum altitude loss in a minimum amount of time.

Oxygen Don pilot mask if applicable for altitude or smoke

Communications Establish Autopilot Disconnect

Power Levers Idle

Prop Levers Full forward to high RPM

Flaps Lower to approach 40% (14°) when below 200 KIAS

Gear Down - do not exceed 181 KÍAS (VLO)

Pitch Down - Remain aware of MEA

Pax Oxygen As required

Transponder Squawk 7700 & advise ATC, request vectors to nearest airport if

necessary.

Windshield Heat As required

After descending to desired altitude:

Gear Maintain speed under 163 KIAS (VLO retraction) and retract UP

Power Increase as needed and resume cruise

ENGINE FAILURE AFTER LIFTOFF

This maneuver will be reviewed before departure and will be initiated by instructor saying 'simulated engine failure' and reducing the power of the most critical engine. The failure will be initiated above 500' AGL and a minimum airspeed of 104 KIAS (VSSE). Simulate Zero Thrust with 120 to 165 ft-lbs. torque / 1800RPM.

When the instructor simulates an engine failure the airman will perform the following:

- Fly aircraft establish 7° nose up pitch attitude and 3° to 5° bank into operative engine
- Confirm maximum power is set
- · Bring gear Up after positive rate of climb established
- Confirm flaps UP
- Identify, confirm autofeather of inoperative engine (manual feather if necessary)
- Airspeed initiate climb at 121 KIAS (VYSE) Note: Aircraft will be at 104 KIAS VSSE
- Airspeed after obstacles are cleared climb at VYSE 121 KIAS
- Complete Engine Failure During Takeoff Checklist

MANEUVERING WITH ONE ENGINE INOPERATIVE

The instructor will simulate an engine failure during flight and the pilot will demonstrate appropriate emergency procedures. At cruise airspeed the instructor will reduce power to simulate an engine failure. The pilot will maintain the assigned heading and altitude while accomplishing the memory items on the Engine Failure Checklist. After completion of the memory items the pilot will secure or simulate securing the engine (as directed by the instructor) by completing the Checklist. After the engine failure Checklist has been completed the airman will either restart the engine or simulate a restart with the use of the 'Air Start' Checklist.

Note: Airspeed shall never be below 104 KIAS (VSSE). For simulated engine failure Zero Thrust is 120 to 165 ft-lbs torque / 1650 RPM.

ONE ENGINE INOPERATIVE ILS APPROACH & LANDING

Follow speeds and procedures for normal instrument approaches with the following exceptions:

- On straight-in approaches do not lower flaps until landing assured.
- On circling approaches do not lower landing gear or flaps until in position to make normal landing.
- Maintain airspeed above VYSE 125 KIAS until landing assured.

Missed Approach Procedure

- If missed approach becomes necessary initiate as soon as possible.
- Maintain VYSE 125 KIAS throughout missed approach
- · Set maximum power
- Raise landing gear and check flaps up
- Establish positive rate of climb at VYSE 125 KIAS
- Execute published MAP

STANDARD INSTRUMENT TAKEOFF

The instructor will simulate instrument conditions at or above 100' AGL with a view limiting device. Follow procedures for normal takeoff with the addition of the following:

- Ensure heading indicator is aligned with runway heading
- During the takeoff roll maintain alignment of the airplane with the runway centerline while smoothly applying power and maintaining positive directional control.
- · Monitor flight instruments while maintaining runway heading
- At 95 KIAS rotate 8° to 10° nose up
- Use normal takeoff procedures
- Accelerate and execute published departure procedure

LOWER THAN STANDARD INSTRUMENT TAKEOFF- Ops Spec C057

In addition to completing Standard Instrument Takeoff training, crewmembers being trained to conduct Lower Than Standard Takeoffs in accordance with ops spec C057 must be able to demonstrate satisfactory knowledge and/or proficiency in the following areas.

- Taxiing in a low visibility environment with emphasis on preventing runway incursion
- Required ground based visual aids (such as stop bars, taxi holding position lights)
- Determination of takeoff alternate airports, as applicable.

Follow procedure for Normal Instrument Takeoff with the following addition:

- The crewmember will perform the takeoff while wearing a view limiting device adjusted to allow viewing only the runway immediately in front of the aircraft.
- The instructor will monitor the takeoff and if necessary, take control by calling 'My Aircraft'.
 The crewmember will respond by saying 'Your Aircraft' and relinquish control to the instructor.

HOLDING PATTERNS

- Slow to the holding airspeed (160 KIAS) within 3 minutes of holding fix
- Crossing the holding fix, start timing, report entering hold
- Adjust inbound leg length to provide 1 minute (1 1/2 minutes above 14,000 MSL)
- Use a standard rate turn at both ends of the holding pattern
- Adjust outbound leg to achieve correct inbound time
- Double the wind correction from the inbound leg

NON-PRECISION APPROACH, LANDING & MISSED APPROACH

PRIOR TO IAF

- Obtain ATIS & set altimeter
- Review approach and missed approach
- Tune & identify NAVAIDS
- · Complete Approach Checklist
- Slow to initial approach speed (150 KIAS = 700 ft-lbs torque/ 1800 RPM)

IAF OUTBOUND

- Start timing
- Flaps 40%
- Airspeed 130 KIAS
- Remain within charted distance from FAF

PRIOR TO FAF

Slow to final approach speed 130 KIAS (typical)

- AT FAF Gear DOWN & Locked
 - Reduce power as necessary to descend 800 to 1000 fpm, approx. 700 ft-lbs torque
 - Start time & report FAF inbound (if not in radar contact)
 - Airspeed 130 KIAS
 - Complete Before Landing Checklist down to approach flaps

AT MDA

Power levers 700 ft-lbs torque - or as required to maintain 130 KIAS

MISSED APPROACH POINT & RUNWAY IN SIGHT

- Flaps 100% confirm Landing Checklist complete
- Airspeed slowing to V R EF
- Execute normal landing followed by after landing procedures

MISSED APPROACH POINT & RUNWAY NOT IN SIGHT

- If FD engaged press GA Button
- Set maximum power
- Pitch to 7° nose up
- After positive rate of climb Gear UP & Yaw Damper On
- Above 107 KIAS flaps UP
- Climb at 125 KIAS (VY)
- Above 1000' AGL set climb power
- Turn landing & taxi lights off & complete Climb Checklist
- Cruise climb at 160 KIAS
- Follow missed approach procedure and advise ATC

ILS APPROACH. LANDING & MISSED APPROACH

PRIOR TO IAF or BEING VECTORED

- Obtain the ATIS, review approach and missed approach
- Tune & identify NAVAIDS
- Complete Approach Checklist
- Slow to initial approach speed (150 KIAS = 700 ft-lbs torque/ 1800 RPM)

IAF OUTBOUND / VECTORS

- Start timing if applicable
- Airspeed 150 KIAS
- · Remain within charted distance

PRIOR TO GLIDE SLOPE INTERCEPT

- Slow to final approach speed 120 KIAS (typical)
- · Preselect initial missed approach altitude

1 DOT BELOW GLIDESLOPE INTERCEPT

- Gear DOWN & Locked
- · Complete Landing Checklist to Approach flaps
- Check FAF crossing altitude
- Airspeed VREF

DH & RUNWAY IN SIGHT

- Flaps 100% confirm Landing Checklist complete
- Airspeed VREF + wind additive
- Execute normal landing followed by After Landing Checklist

MISSED APPROACH AND GO-AROUND

• Follow same missed approach procedure as non-precision approach

GPS APPROACH, LANDING & MISSED APPROACH

General precautions when executing a GPS approach include:

- Be thoroughly familiar with the GPS unit being used.
- Be certain of the waypoint you are navigating to. Some GPS approach waypoints are Initial Approach Fixes and the same waypoint may also be a Missed Approach Waypoint.
- Be familiar with the required GPS activation procedure for a missed approach when passing the Missed Approach Waypoint (MAWP).
- Fly the full approach from the Initial Approach Fix (IAF) unless specifically cleared and terrain clearance is assured. Joining an approach at an intermediate fix does not assure
- terrain clearance or proper GPS waypoint sequencing.
- Back up the GPS approach with alternative navigation equipment during the approach.
- Plan power settings and descent rates to arrive over Final Approach Waypoint (FAWP) at VLO 181 KIAS.

Use same procedure as non-precision or precision approach with the following differences:

INITIAL APPROACH FIX

- Select and load GPS Approach
- Verify GPS waypoints on flight plan page match the approach plate waypoints
- Within 30 NM of airport or transitioning to first waypoint of arrival procedure ensure GPS has switched to 'Terminal' mode.
- Ensure CDI is in GPS mode
- Tune and Identify NAVAIDS as backup

PRIOR TO FINAL APPROACH FIX

Within 2 NM of FAF verify GPS has switched to approach mode (LPV , VNAV, LNAV+V, or LNAV)

MISSED APPROACH WAYPOINT & RUNWAY NOT IN SIGHT

- Deselect "Suspend" mode to enable missed approach waypoint sequencing
- Ensure CDI is in GPS mode
- Follow same missed approach procedure as Precision or Non-Precision Approach

CIRCLING APPROACH, LANDING & MISSED APPROACH

Use same procedures as non-precision or precision approach with the following exceptions:

MINIMUM DESCENT ALTITUDE

- Airspeed 130 KIAS (Power 1000 ft-lbs torque / 2000 RPM
- Maneuver within criteria area (Category C airspeed 121-140 KTS)
- Maneuver the shortest path to the downwind or base leg considering weather conditions. There is no restriction from passing over the airport or other runways
- Maintain visual contact with runway environment
- Do not exceed 30° bank while maneuvering
- Maintain MDA until in position to make a normal landing
- Remain vigilant of VFR aircraft operating in the airport traffic area and follow airport traffic patterns whenever possible

Note: If single-engine circling is required leave gear and flaps up until landing assured.

CIRCLING MISSED APPROACH

- Initiate missed approach whenever visual contact with the runway environment is lost.
- Make initial climbing turn toward the landing runway to join the published missed approach procedure and notify ATC