



THRUST FLIGHT

Elevate Your Experience

Seminole Maneuvers Guide

Power Off Stall:

(Approach to Landing Stall)
Select your heading and altitude

Verbalize
Bug it

Clearing turns (90° each way; be precise)

Fuel Pumps ON

Mixtures RICH

Props FWD

Throttles MP 15"

Gear DOWN (<140kts)

Pitch nose to maintain alt (check heading)

Flaps 10 degrees (<111kts)

Pitch nose to maintain alt (check heading)

Flaps 25 degrees

Flaps 40 degrees

Power to idle

Initiate descent

Flare to land

Hold until stall

Recovery:

Full Power

Relax back pressure and Nose to Horizon

Flaps 25 degrees

Accelerate to Blue Line (88kts)

Flaps 10 degrees

Verify positive rate of climb

Gear UP

Flaps 0 degrees

Cruise Checklist

Power On Stall:

(Departure Stall)
Select your heading and altitude

Verbalize
Bug it

Clearing turn (90° each way; be precise)

Fuel Pumps ON

Mixtures RICH

Props FWD

Throttles MP 12"

Slow to Blue Line 88kts (maintain heading & altitude)

Increase Power to 18" MP (maintain heading & altitude)

Increase pitch to stall (

Recovery:

Decrease back pressure to break stall

Throttle FULL

Pitch to Blue Line (88 kts)

Resume climb

Slow Flight:

Select your heading and altitude

Verbalize

Bug it

Clearing turns (90° each way; be precise)

Fuel Pumps ON

Mixtures RICH

Props FWD

Throttles MP 15"

Gear DOWN (<140kts)

Pitch nose to maintain alt (check heading)

Flaps 10 degrees (<111kts)

Pitch nose to maintain alt (check heading)

Flaps 25 degrees

Flaps 40 degrees

Slow to 65-70kts

Power for Altitude

Pitch for Speed

Recovery:

Nose to Horizon

Full Power

Flaps 25 degrees

Accelerate to Blue Line (88kts)

Flaps 10 degrees

Gear UP

Flaps 0 degrees

Cruise Checklist

Accelerated Stall:

Clearing turn (90° be precise)

Fuel Pumps ON

Mixtures RICH

Props 2300RPM

Throttle MP15"

Pitch nose up to maintain alt

Slow to 88kts

Establish a 45 degree bank

Increase back pressure to induce a stall

Recovery:

At first indication of stall

Lower the nose to the horizon and simultaneously Level Wings

Full power

Cruise Checklist

Steep Turns:

Select your heading and altitude

Verbalize

Bug it

Clearing turn (90° be precise)

Props 2500RPM

Throttle MP 20 - 21"

Establish 120kts

Increase throttle to 23-24" MP

Roll in to a 50 degree bank

Add 1 swipe of nose up trim

Maintain altitude and bank angle

Roll out briskly 15° prior to heading

Bring power back to 20" MP to prevent ballooning

In the Pattern:

CLIMB:

after 500' AGL: 25"MP/2500 RPM

DOWNWIND:

CRUISE 20"MP/2500 RPM

Complete ACCGUMPS

Aux Fuel Pumps ON

Carb Heat AS REQ

Cowl Flaps AS REQ

(Gas) Fuel Selectors ON

Undercarriage Below 140 kts Down, 3 green

Mixture RICH

Props full

Seatbelts SECURE

ABEAM Landing Point:

16"MP
10 degrees Flaps
Maintain 88-95kts
Verify gear "3 green, one in the mirror"

BASE:

25degrees Flaps/Nose UP trim
Maintain 85 - 88 kts
Verify gear "3 green, one in the mirror"

FINAL:

Flaps 25-40 (as needed)
Power as needed to maintain 75-80 kts
(normal landing, 75kts short field)
Verify gear "3 green, one in the mirror"

Short Field Takeoff:

Use all available runway
Hold BRAKES
Throttle MP 18"
Engine gauges Green
Heels to floor
FULL POWER
Lift off lowest possible Airspeed
Climb at Vx (82kts)
Tap Brakes/ Gear UP
CLEAR OBSTACLE
Pitch for BLUE LINE 88-90 kts
After 500' AGL: 25"MP/2500 RPM

VMC Demo:

Select your heading and altitude
 Verbalize
 Bug it
Clearing turns (90° each way; be precise)
Fuel Pumps ON
Mixtures RICH
Left Throttle Idle (simulated windmilling)
Establish Zero Side Slip
Cowl Flap CLOSE on idle engine

Props FULL FWD
Adjust trim
At Blue Line, Right Throttle FULL POWER (leave hand on this throttle)
Increase Pitch to decrease airspeed 1kt/sec

-Increase Right Rudder as necessary to maintain heading

-Continue increasing pitch until loss of directional control or stall indication

-Immediately relax back pressure and reduce power on operative engine

-Accelerate to Blue Line (88kts) add power on "operative engine" as necessary to accomplish this

After recovery, sync throttles and props to cruise setting

Cowl Flaps OPEN
Cruise Checklist

Drag Demo (MEI only):

Talk throughout maneuver
Select your heading and altitude

 Verbalize
 Bug it

Clearing turns (90° each way; be precise)

Fuel Pumps ON
Mixtures RICH
Left Throttle Idle (simulated windmilling)

Establish Zero Side Slip
Cowl Flap CLOSE on left engine
Props FULL FWD
Adjust trim as you slow to Blue Line
At Blue Line, Right Throttle FULL POWER

Using Pitch, Maintain VYSE (88kts)
 Note VSI

Establish Simulated Feather on idle engine (~8 in MP)

Pitch nose to maintain Vyse (check heading)

Note VSI

Gear DOWN (<140kts)

Pitch nose to maintain Vyse (check heading)

Note VSI

Flaps 10 degrees (<111kts)

Pitch nose to maintain Vyse

Flaps 25, then 40 degrees (<111kts)

Pitch nose to maintain Vyse (check heading)

Note VSI

Gear UP

Pitch nose to maintain Vyse (check heading)

Note VSI

Throttle 15" on Idle engine to warm it

Flaps 25 degrees and stabilize

Flaps 10 degrees

Flaps 0 degrees

Cowl Flaps OPEN

Cruise Checklist