

# N159FS – NORMAL CHECKLIST

Vx 60 Vy 79

## BEFORE START

Exterior	COMPLETE
Seats, Belts	ADJUST & LOCK
Passenger Brief	COMPLETE
Cell Phones	OFF
Fuel selector valve	BOTH
Fuel Shut off valve	ON(Push full in)
Avionics	OFF
Electrical Equip. (Lights)	OFF
Beacon	ON
Circuit Breakers	CHECK

## STARTING ENGINE

Brakes	TEST & HOLD
Mixture	IDLE CUT OFF
Throttle	OPEN ¼"
Master Switch	ON
Propeller Area	CLEAR
<b>Cold start</b>	
Auxiliary Fuel Pump	ON
Mixture	FULL RICH
(until stable fuel flow is indicated 3-5 sec)	
Mixture	IDLE CUT OFF
Auxiliary Fuel Pump	OFF
Ignition Switch	START
Mixture	SMOOTHLY FULL RICH

**Hot start**  
**Ignition Switch** START  
**Mixture** SMOOTHLY FULL RICH

Throttle	1000RPM or less
Oil Pressure	CHECK
Ammeter	CHECK
Avionics	ON
Mixture	LEAN IF REQUIRED
Transponder	SBY/1200
Weather	OBTAIN
GPS	UPDATE
Flaps	UP
Heading Indicator	SET

## TAXI CHECK

Transponder	ALT
Brakes	TEST
Compass	CHECK (while turning)
Attitude Indicator	CHECK (while turning)
Heading Indicator	CHECK (while turning)
Turn Coordinator	CHECK (while turning)

## BEFORE TAKEOFF

Flight Controls	FREE & CORRECT
Elevator Trim	TAKEOFF
Brakes	SET
Throttle	1800RPM
Engine Instruments	CHECK
Ammeter	CHECK
Vacuum	CHECK
Magnetos	CHECK (Drop not to exceed 150 RPM's and 50 differential)
Annunciator Panel	NO LIGHTS ON
Alternate Static	PULL ON/PUSH OFF
Throttle	IDLE CHECK
Throttle	1000 RPM
Flight Instruments	CHECK/SET
Comm Radio's	SET
Nav Radio's	SET
GPS	SET
Autopilot	CHECK
Throttle Friction Lock	ADJUST
Flight Plan	OPEN
Doors & Windows	LATCHED
Flaps	Set 0°
Time Off	LOG
Landing Light	ON
Transponder	PROPER CODE
Mixture	RICH
Compass & RWY Heading	VERIFY

## NORMAL TAKEOFF

**\*Add ½ Gust Factor to all speeds\***

Throttle	FULL
Rotate	55 KIAS
Climb	70-80 KIAS

## SHORT FIELD TAKEOFF

Flaps	SET 10°
Runway	USE MAX AVAILABLE
Brakes	HOLD
Throttle	FULL OPEN
Engine Instruments	CHECK
Brakes	RELEASE
Yoke	NEUTRAL
Rotate	51 KIAS
Climb Out at Vx	57-60 KIAS
Obstacle Clear	ACCELERATE TO Vy -79 KIAS
Flaps	RETRACT

**\*\*CONTINUED\*\***

Normal Climb	ACCELERATE to 80 KIAS
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## SOFT FIELD TAKEOFF

Flaps	SET 10°
Yoke	AFT
Brakes	AVOID USING
Throttle	FULL
Lift Off ASAP	ACCELERATE IN GROUND EFFECT TO 57-60 KIAS
Climb Out at Vx	57-60 KIAS
Obstacle Clear	ACCELERATE TO Vy 79 KIAS
Flaps	RETRACT
Normal Climb	ACCELERATE TO 80 KIAS

## CRUISE

Power	2000-2400 RPM's
Trim	SET
Landing Light	OFF
Heading Indicator	CHECK
Mixture	LEAN

## DESCENT

Passenger Brief	COMPLETE
Power	AS DESIRED
Mixture	ENRICHEN SLOWLY
Trim	SET

## BEFORE LANDING - G.L.U.M.P.S.

Fuel Selector	ON
Landing Light	ON
Mixture	RICH
Seat Belts	SECURE

## NORMAL

**\*Add ½ Gust Factor to all speeds\***

Approach (Flaps 0)	80 KIAS
Approach (Flaps 10)	75 KIAS
Approach (Flaps 20)	70 KIAS
Approach (Flaps 30)	60 KIAS

## SHORT FIELD

Flaps	FULL
Airspeed	60 KIAS(+½ Gust Factor)

**\*\*CONTINUED\*\***

## \*CONTINUED FROM LAST COLUMN\*

Approach	STEEP DESCENT ANGLE to Clear 50' Obstacle)
Touchdown	AVOID FLOATING
Brakes	APPLY HEAVILY
Flaps	RETRACT
Elevator	FULL BACK PRESSURE

## SOFT FIELD

Flaps	FULL
Airspeed	60 KIAS (+½ Gust Factor)
Approach	STEEP DESCENT ANGLE (Clear 50' Obstacle)
Touchdown	NOSE HIGH
Brakes	AVOID USING

## AFTER LANDING

Flaps	RETRACT
Mixture	LEAN IF REQUIRED
Landing Light	OFF
Trim	SET FOR TAKEOFF

## ENGINE SHUT DOWN

Flight Plan	CLOSE
Throttle	1000RPM's
Transponder	1200/STANDBY
Avionics	OFF
Lights - (Beacon On)	OFF
Mixture	IDLE/CUT OFF
Ignition Key	OFF & OUT
Master	OFF

## SECURING AIRCRAFT

Tach/Hobbs	NOTE
Control Lock	INSTALL
Sun Visors	INSTALL
Pitot Cover	CHECK/DOWN
Tie Down	SECURE
Remove Person Items & TRASH	



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