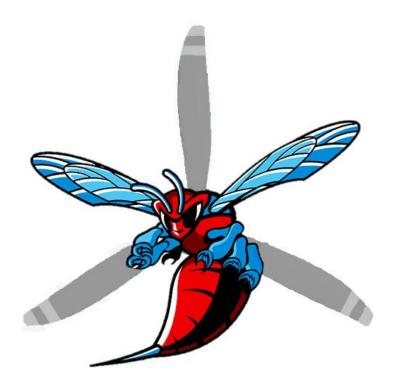
# Pilot's Checklist



Vulcanair V1.0



# Intentionally Left Blank



#### **REVISIONS**

Changes and/or additions in this checklist will be covered by Owner Advisories Published by the aircraft manufacturer. It is the responsibility of DSU to maintain this checklist in a current status when it is used for operational purposes. Additional checklist procedures may be inserted within the manufacture's procedures by DSU Flight Operations

### LOG OF REVISIONS

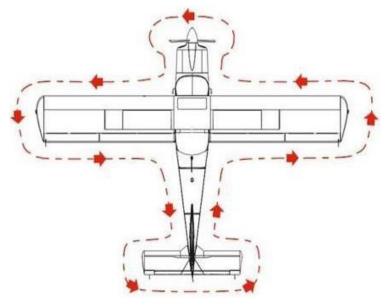
Revisions to this checklist shall supersede all previous revisions in its entirety as listed below. All previous checklists should be discarded.

Revision Original Issue	Date 09/30/2020	

ALL REFERENCES TO SECTIONS THROUGHOUT THIS CHECKLIST PERTAIN TO THE APPROPRIATE SECTION OF THE PILOT'S OPERATING HANDBOOK (POH) SHOULD ANY LIMITATION OR PROCEDURAL DIFFERENCE EXIST, THE MORE RESTRICTIVE SHALL APPLY



## NORMAL PROCEDURES



Visually check airplane for general condition during walk around inspection. In cold weather, remove even the smallest of accumulations of frost, ice or snow from wing, tail and control surfaces. If a night flight is planned, check operation of all lights and ensure a flashlight is available. For detailed information and explanation of these procedures, refer to the POH.

Procedures in the following Normal Checklist shown in **bold-faced** should be committed to memory

# **PREPARATION**

External Control Locks	DDSKDEDS
Navigation	D D

# PREFLIGHT

# COCKPIT

Parking Brake	SET
Alternate Static Source	PRESS TO DRAIN then RELEASE
Descripted Descript / DOLL	
	ON BOARD
Headsets	CHECK
	CHECK REMOVED
	FREE and CORRECT
Trim	SET NETURAL
Mixture	IDLE CUTOFF
Start Key Switch	OFF
	OFF
	CHECK IN
	OFF
	OFF
	OFF
Flaps	CHECK RETRACTED
Flan Control	CHECK 0° POSITION
Rattery Master Switch	ON
	CHECKED ON
Appunciator Panel	PUSH "PPT" to TEST
	CHECK NO RED Xs
	CHECKED ON
Fuel Quantity Indicators	CHECK QUANTITY
	SELECT ON to LOWEST TANK
	CHECK OPERATION
Navigation Lights Switch	ON



Strobe Lights Switch  LDG Light Switch  TAXI Light Switch  Pitot Heat Switch	ON ON
Walk around to check lights, stall indicate	or and Pitot Heat
Landing/Taxi lights	CHECKED OPERATIONAL ILLUMINATED OFF OFF KED SET to "ARM" and EXPIRATION
LEFT WING	
Fuel VentFuel Tank SumpCHE	CHECKCLEAR UPPLY VISUALLY CAP and COVERCHECK OPEN
CAUTION When draining any amount of fuel, care to ensure that no fire hazard exists before	
Strut Condition Wing Tie-Down Stall Warning Detector Pitot Tube Landing/Taxi Lights Wing Tip and Navigation Lights Aileron and Hinges Flap and Hinges Control Lock Static Wicks	REMOVE CHECK CHECK CHECK CHECK CHECK CHECK CHECK CHECK



# FUSELAGE, Left Side

Condition	CHECK SECURE CHECK CHECK CHECK CHECK
EMPENNAGE	
Stabilator Condition F Stabilator Trim Condition Rudder and Fin Condition Control Lock Tie Down	CHECKCHECK CHECK REMOVED
FUSELAGE, Right Side	
Condition	SECURE CHECK CHECK LOCKED CHECK SECURE CHECK CHECK CHECK CHECK CHECK
Surface Condition	CHECK CHECK REMOVED CHECK SECURE CHECK CHECK



Tie Down	REMOVE
Fresh Air Inlets	CLEAR
Fuel Tank	CHECK SUPPLY VISUALLY
	SECURE CAP and COVER
Fuel Vent	CHECK OPEN
Fuel Tank Sump	DRAIN
	CHECK FOR WATER
	SEDIMENT AND PROPER FUEL

#### CAUTION

When draining any amount of fuel, care should be taken to ensure that no fire hazard exists before starting engine

## RIGHT FUSELAGE, forward of wing strut

Co-Pilots Door	 CHECK
RH Static Port	 CLEAR

### NOSE SECTION

Cowl Plugs	REMOVED
Air Inlets	CLEAR
Cowling	SECURE
Windshield	
Oil Quantity	CHECK LEVEL
Dipstick	PROPERLY SEATED
Oil filler Door	SECURE
Nose Gear	CHECK
Nose Wheel Tire	CHECK
Oil Cooler	
Engine Air Intake	
Engine Air Intake Filter	CHECK
Induction System	DRAIN
Nacelle Locking Screws	SECURE
Propeller and Spinner	CHECK
Exhaust Pipes	CHECK
Fuel Strainer	DRAIN
	CHECK FOR WATER

#### CAUTION

SEDIMENT AND PROPER FUEL

When draining any amount of fuel, care should be taken to ensure that no fire hazard exists before starting engine



Chock	REMOVE
LH Static Port	CLEAR
External Power Receptacle	CHECK
Pilots Door	

#### **BEFORE STARTING ENGINE**

Pre-Flight Inspection	COMPLETE
Doors	CLOSE and SECURE
	BRIEFED
	SECURE
Seats	ADJUSTED
Parking Brake	SET
Empty Seats	SEAT BELTS FASTENED
FUEL PUMP Switch	OFF
	OPEN ½"
Propeller	FULL FORWARD
	IDLE CUT-OFF
	FULLEST TANK
Circuit Breakers	CHECK IN
Battery Master Switch	ON
Avionics Switch	ON
Fuel Quantity Indicator	CHECK
Battery Voltage	CHECK
	ON
	ON
Alternate Air Control	OFF
Cockpit Lights	AS REQUIRED
Trim Tabs	CHECK and SET FOR T/O
	SET
	SET TO FIELD ELEVATION

#### WARNING

After power is applied but before starting engine, the PFD and MFD appear. If any failure message appears on the PFD or on the MFD, the take-off is strictly prohibited until the problem has been identified and solved.

If engine does not start within 10 seconds, prime and repeat starting procedure. Starter manufacturer recommends cranking periods be limited to 10 seconds with a 30 second rest period between cranking periods. Maximum of 6 start periods allowed. If start is not achieved on sixth attempt, allow starter to cool for 30 minutes before attempting additional starts



# NORMAL START - COLD Engine

Avionics Master Switch	ONON
	SET TO ENGINE PAGE
Alternator Switch	ON OFF
Starter Key Switch	ROTATE on BOTH
Fuel Pump Switch	ON SET ½" OPEN
	FULL RICH
	Until Stabilized Fuel Flow then
The state	IDLE-CUTOFF
Prop Area	SET FOR 1000 RPM
Starter Key Switch	
Mixture	
Throttle Oil Pressure	
Oil Flessure	Officer
WAF	RNING
Oil pressure should rise within:	20 accords avecation vany cold
weather, when it may take son not be started if oil pressure pressure gauge does not show	newhat longer. Take-off should is above maximum. If the oil v any indication, shut down the investigate.
weather, when it may take son not be started if oil pressure pressure gauge does not shov engine and	newhat longer. Take-off should is above maximum. If the oil vany indication, shut down the investigate.
weather, when it may take son not be started if oil pressure pressure gauge does not show engine and	newhat longer. Take-off should is above maximum. If the oil of any indication, shut down the investigate.  OFF
weather, when it may take son not be started if oil pressure pressure gauge does not show engine and  FUEL PUMP Switch	newhat longer. Take-off should is above maximum. If the oil v any indication, shut down the investigate.  OFF ON
weather, when it may take son not be started if oil pressure pressure gauge does not show engine and  FUEL PUMP Switch	newhat longer. Take-off should is above maximum. If the oil v any indication, shut down the investigate.  OFF ON  ON ON
weather, when it may take son not be started if oil pressure pressure gauge does not show engine and  FUEL PUMP Switch	newhat longer. Take-off should is above maximum. If the oil v any indication, shut down the investigate.  OFF ON  NO  ON  SET TO ENGINE PAGE
weather, when it may take son not be started if oil pressure pressure gauge does not show engine and  FUEL PUMP Switch	newhat longer. Take-off should is above maximum. If the oil of any indication, shut down the investigate.  OFF ON  ON  SET TO ENGINE PAGE ON  OFF
weather, when it may take son not be started if oil pressure pressure gauge does not show engine and  FUEL PUMP Switch	newhat longer. Take-off should is above maximum. If the oil of any indication, shut down the investigate.  OFF ON  SET TO ENGINE PAGE ON OFF ON OFF ON OFF ON OFF
weather, when it may take son not be started if oil pressure pressure gauge does not show engine and  FUEL PUMP Switch	newhat longer. Take-off should is above maximum. If the oil v any indication, shut down the investigate.  OFF ON ON SET TO ENGINE PAGE ON ON OFF ON
weather, when it may take son not be started if oil pressure pressure gauge does not show engine and  FUEL PUMP Switch	newhat longer. Take-off should is above maximum. If the oil v any indication, shut down the investigate.  OFF
weather, when it may take son not be started if oil pressure pressure gauge does not show engine and  FUEL PUMP Switch	newhat longer. Take-off should is above maximum. If the oil v any indication, shut down the investigate.  OFF

Mixture ...... ADVANCE as engine starts



Throttle	1000 PDM
Oil Pressure	
Fuel Pump Switch	
Alternator Switch	
Alternator Switch	ON
NOTE	
In the event of backfire during engine start- and check the entire intake system for sec flight. In this case the downstream face of the charring. Replace any damage	urity and damage before ne foam element will show
ENGINE START with EXTERNAL PO	WER
Alternator Switch	OFF
External Power	
Battery Master Switch	
AVIONICS Master Switch	
7.VIOINIOO Madioi Ownori	
Proceed with NORMAL STAR	T (Hot or Cold)
WARM-UP	
Throttle	800 to 1200 RPM
TAXI	
Battery Master Switch	CHECK ON
Avionics Master Switch	
TransponderPROP	
Alternator Switch	CHECK ON
Nav Lights Switch	
TAXI Light Switch	
Altimeter	SET
Radios	ON, SET & CHECK
Flaps CHECK	FULL RANGE then UP
Taxi Clearance	RECEIVED
Parking Brakes	
Taxi Area	
Throttle	
	CHECK
Steering	CHECK
Steering	CHECK CHECK SWINGS FREELY
Steering	CHECK CHECK SWINGS FREELY ERECT

Slip / Skid Indicator ...... MOVES to OUTSIDE



OF TURN

# **GROUND RUN-UP**

<u> </u>	COMP RON OF	
Parking Brake	SET	
Fuel Selector	LEFT then RIGHT	
FUEL PUMP Switch	OFF	
Mixture	RICH	
	FULL FORWARD	
	OFF	
	1900 RPM	
Propeller	FULL AFT	
	CHECK RPM drop to 1400 RPM	
	Then	
Propeller	FULL FORWARD	
1 10001101	CHECK RPM recovers to 1900 RPM	
	NOTE	
	es and manifold pressure increases during	
deceleration to 1400 RP	M Check oil pressure increases and	
manifold pressure decrea	ases during acceleration to 1900 RPM.	
Minton	CLICOK	
	CHECK	
Alternate Air Control	ON	
	CHECK RPM drop, then OFF CHECK RECOVERY	
Throttle	2100 RPM	
175 DD	PM max drop, 50 RPM max differential	
	CHECK	
Oil Proseuro	CHECK GREEN BAR	
	OFF	
	CHECK	
	CHECK	
	RETARD (1000 RPM)	
	RELEASE	
BEFORE TAKEOFF		
	BOTH	
	ON	
	ON	
	FULLEST TANK	
	ON	
	OFF	
	ERECT	
Mixture	SET	



Propeller		
When Cleared for Takeoff		
Transponder CHECKED PROPER CODE / SET to ALT Wing Strobes		
TAKEOFF		
NORMAL TAKEOFF		
Nose Wheel STRAIGHT  Directional Gyro CHECKED TO RWY HDG  Brakes APPLY AND HOLD  Throttle 2,000 <sub>RPM</sub> Engine Gauges CHECKED ALL GREEN  Brakes RELEASED  Throttle FULL  Airspeed ALIVE  Rotate 65 <sub>KIAS</sub>		
Initial Climb (Vx)		
CLIMB           Best Rate (Flaps Up)         80кілая           Cruise Climb         100кілая           Electric Fuel Pump         OFF           AT DESIRED ALTITUDE		



# CRUISE

Normal Max Power		
Power	SET PER POWER TABLE	
Mixture	ADJUST	
Landing Light	AS REQUIRED	
MANEUVERS		
Practice Area	CLEAR OF TRAFFIC	
Airspeed	AT or BELOW VA	
Fuel Selector Mixture		
Electric Fuel Pump		
	ON Below 1000' AGL	
Landing Light	ON	
DESCENT		
NORMAL		
ATIS/Airport Info	RECEIVED	
Approach/Landing BriefFuel Selector		
Landing Light		
Seat Back		
Belts/Harnesses		
Mixture Throttle		
APPROACH and LANDING		
TO BE COMPLETED BY FAF OR 1,000 FT AGL		
Electric Fuel Pump		
Landing Light		
PowerMixture	, -	
Propeller		
Flaps	AS REQUIRED	
Final Approach Speed (Flaps 28°)	78kias MAX70kias	
,		



# GO AROUND

GO AROUND		
Pitch		
AFTER LANDING		
Throttle	STOP AIRCRAFT	
PARKING		
Avionics Master Switch Throttle Mixture Control Starter Key Nav and Cockpit Lights Anti-Collision Light Alternator Switch Hobbs and Tach Meters Master Switch	SET OFF	
Squawk Sheet	RECORD AND REPORT	