

# **NORMAL CHECKLIST**

## **AIRSPEEDS**

<i>Vr</i> .....	71 KIAS
<i>Vx</i> .....	77 KIAS
<i>Vy</i> .....	96 KIAS
<i>Vycruise</i> .....	107 KIAS
<i>Va</i> .....	134 KIAS
<i>Vfe15°</i> .....	154 KIAS
<i>Vfefull</i> .....	123 KIAS
<i>Vno</i> .....	167 KIAS
<i>Vlo/Vle</i> .....	154 KIAS
<i>Vne</i> .....	196 KIAS
<i>Vinitial approach</i> .....	90 - 95 KIAS
<i>Emergency Descent</i> .....	154 KIAS
<i>Glide</i> .....	105 KIAS
<i>Landing without Engine</i> .....	83 KIAS

## **DATA**

<i>MTOW</i> .....	1542 kg / 3400 lbs
<i>Usable Fuel</i> .....	74 UsGal / 280 Ltr.
<i>Fuel Capacity</i> .....	80 UsGal / 302 Ltr.
<i>average Fuel Flow</i> .....	15 UsGal/h

**PREFLIGHT INTERIOR + EXTERIOR.**

- 1 Check Aircraft papers
- 2 Remove pitot + static vent cover
- 3 Check interior for foreign objects
- 4 Check flight controls free
- 5 Cowl Flaps OPEN (pull)
- 5 Check circuit breakers all in
- 6 Magnetos OFF, key removed
- 7 Mixture IDLE CUT OFF
- 8 Flight controls CHECK FREE
- 9 Avionic master + electrics OFF
- 10 Master Switch ON
- 11 Check battery voltage
- 12 Ldg Gear lights CHECK 3 GREEN
- 13 Check fuel qty (not in yellow arc)
- 14 Fuel selector to FULLER TANK
- 15 External lights ON
- 16 Pitot heat ON (cover removed !)
- 17 Parking brake SET
- 18 Check stall warning
- 19 Check pitot heat
- 20 Check external lights
- 21 Pitot heat + ext. lights OFF
- 22 Electric Master OFF

**PREFLIGHT EXTERIOR****Right Fuselage**

- 1 Baggage Comp. Door SECURE
- 2 Static Pressure Button UNOBSERVED
- 3 ELT ARMED or PLB on board

**Empennage**

- 1 Control Surfaces CHECK
- 2 Tie Down REMOVE
- 3 Position Light CHECK
- 4 Cabin Air Intake CHECK

**Left Fuselage**

- 1 Static Pressure Vent UNOBSERVED
- 2 All Antennas CHECK

**Left Wing Trailing Edge**

- 1 Flap CHECK
- 2 Aileron CHECK
- 3 Wing Tip CHECK
- 4 Position Light CHECK

**Left Wing Leading Edge**

- 1 Fuel Tank CHECK QUANTITY
- 2 Filler Cap SECURE
- 3 Cabin Air Intake CHECK
- 4 Tie down and Chocks REMOVE

**Left Landing Gear**

- 1 Wheel Well Door, Tire and Strut CHECK
- 2 Fuel vent CHECK
- 3 Fuel Sump DRAIN
- 4 Fuel Selector Valve Sump DRAIN
- 5 Cover SECURE

**Nose Section**

- 1 Left Cowl Flap CHECK
- 2 Engine Oil CHECK (9-11 qts.)
- 3 Cap and Dipstick SECURE
- 4 Propeller CHECK
- 5 Wheel well Doors, Tire and Strut CHECK
- 6 Induction Air Intake CLEAR
- 7 Landing lights CHECK
- 8 Engine CHECK GENERAL CONDITION
- 9 Right Cowl SECURE
- 10 Right Cowl Flap CHECK
- 11 Chocks REMOVE

**Right Landing Gear**

- 1 Wheel Well Door, Tire and Strut CHECK
- 2 Fuel vent CHECK
- 3 Fuel Sump DRAIN

**Right wing Leading Edge**

- 1 Cabin Air Intake CHECK
- 2 Tie Down and Chocks REMOVE
- 3 Fuel Tank CHECK QUANTITY
- 4 Filler Cap SECURE

**Right Wing Trailing Edge**

- 1 Position Light CHECK
- 2 Wing Tip CHECK
- 3 Aileron CHECK
- 4 Flap CHECK

**CHECK BEFORE ENGINE START**

1	Preflight check .....	COMPLETED	1
2	Seat & Seatbelts.....	SECURED	2
3	Parking brake.....	SET	3
4	All Avionics .....	OFF	4
5	Circuit breakers .....	CHECKED IN	5
6	Flap selector .....	UP	6
7	Landing Gear Handle.....	DOWN	7
8	Cowl Flaps pull.....	OPEN	8
9	Electric Elevator Trim Switch .....	OFF	9
10	Selector Valve .....	FULLER TANK	10
11	All Light Switches.....	OFF	11
12	Alternate Air .....	CLOSED	12
13	Emergency Gear Handle .....	STOWED	13
14	Alternate static.....	CLOSED	14
15	Propeller Anti Ice Switch .....	OFF	15
16	<b>Bat. Switch .....</b>	<b>ON</b>	16
17	Fuel Quantity . .....	CHECKED	17
18	Warning Lights Test Switch.....	PRESS	18
19	Gear Lights / Annunciator.....	CHECK	19
20	Rudder pedals/Seat.....	ADJUSTED	20
21	Passengers .....	INSTRUCTED	21
22	Seat belts.....	FASTENED	22
23	Fuel Selector .....	CHECK FULLER TANK	23
24	Beacon .....	ON	24
25	Hobbsmeter .....	NOTE	25
26	Propeller Area .....	CLEAR	26

End of Checklist

**ENGINE START PROCEDURE: next page**

**ENGINE START PROCEDURE**

**Cold engine:**

Throttle .....FORWARD / FULL  
 Propeller .....HIGH RPM  
 Mixture.....FULL RICH  
 Electrical Fuel pump..... ON  
 Fuel Flow .....STABILIZED  
 Electrical Fuel pump..... OFF  
 Throttle.1cm OPEN (pull out+4 turns in)  
 Magneto/Start Switch ..... START  
 RPM.....1000 - 1200 RPM

**Hot engine:**

Throttle .....IDLE  
 Propeller .....HIGH RPM  
 Mixture.....FULL LEAN  
 Electrical Fuel pump... ON (min.30 sec.)  
 Electrical Fuel pump..... OFF  
 Mixture..... RICH  
 Throttle.1cm OPEN (pull out+4 turns in)  
 Magneto/Start Switch ..... START  
 Electrical Fuel pump..... ON  
 RPM.....1000 - 1200 RPM  
 Electrical Fuel pump.....OFF

Procedure for starting of a FLOODED ENGINE on Page 7

**CHECK AFTER ENGINE START**

1	Oil pressure .....	CHECKED / GREEN	1
2	Gen. Switch .....	ON	2
<del>X</del>	Suction .....	CHECKED / GREEN	3
4	Ampermeter .....	CHECKED / POSITIV	4
5	All Engine Indicators .....	CHECK	5
6	Avionic Master, PFD, SAM.....	ON	6

**AUTOPILOT TEST**

DISCONN press, check electric trim not working  
 AP ON, check overpowering servos  
 DISCONN press, check AP off

**BEFORE TAXI CHECK**

7	Altimeters .....	SET	7
8	Com/Nav/GPS.....	SET	8
9	Slaving Selector on slave.....	CHECKED	9
10	Flaps.....	full travel then UP	10
11	Horizon / Directional gyro .....	CHECKED / SET	11
12	Transponder .....	CODE/MODE CHECKED	12
13	Lights .....	AS RQUIRED	13
14	Parking brake.....	RELEASED	14

End of Checklist

**DURING TAXI**

Check Brakes  
 Check flight instruments

**BEFORE TAKE OFF CHECK**

1	Parking brake.....	SET	1
2	Seat belts .....	FASTENED	2
3	Engine Instruments.....	CHECKED / GREEN	3
4	Fuel Selector .....	FULLER TANK	4
5	Cowl Flaps pull to .....	OPEN	5
6	Mixture Control .....	FULL RICH	6
7	Propeller Control .....	HIGH RPM	7
8	Circuit breakers .....	CHECKED	8
9	Doors and Windows .....	SECURE	9

**RUN UP**

Throttle ..... **1700 RPM**  
 Prop control ..... cycle 3 times (300-400 drop)  
 Magnetos.....(max 150/50) CHECKED  
 Circuit breakers, voltage ..... RECHECKED  
 Throttle .....IDLE CHECK(500-700RPM) then **1000 RPM**

10	Electr.elevator trim	CHECKED to 3°up,T/O SET	10
11	Flaps.....	CHECKED UP	11
12	Flight controls .....	CHECKED	12
13	Propeller Control .....	CHECK HIGH RPM	13
14	Electric fuel pump .....	<b>CHECK OFF</b>	14
15	Pitot heat .....	AS REQUIRED	15
16	Transponder .....	CODE/MODE CHECKED	16
17	Parking brake.....	RELEASED	17

End of Checklist

**LINE UP PROCEDURE**

Landing light ..... ON  
 Approach sector..... CLEAR  
 Runway ..... IDENTIFIED

**EMERGENCY BRIEFING** --- on the Runway.....Throttle IDLE/Brake/  
 --- after Departure.....Nose Down/Glide Speed 105 KIAS

**TAKE OFF**

1	Throttle full Forward.....	2700 RPM-29,6"MP	1
2	Rotate / Vx .....	71 / 77 KIAS	2
3	Positive ROC .....	BRAKES + GEAR UP	3
4	Increase Speed .....	96 KIAS	4

End of Checklist

**CLIMB /CRUISE CLIMB**

1	Cimb Power .....	25"MP/2500 RPM	1
2	Gear / Flaps .....	CHECK UP	2
3	Cowl Flaps .....	CHECK OPEN	3
4	Mixture .....	RICH ../set fuel flow	4
5	Cruise Climb .....	107 KIAS	5
6	Lights .....	AS REQUIRED	6

End of Checklist

**CRUISE CHECK**

1	Power .....	65% (23"MP/2300RPM)	1
2	Mixt. lean .....	25°F-100°F below Peak	2
3	Cowl Flaps push in to.....	CLOSE	3
4	Altimeters .....	STANDARD + compared	4

End of Checklist

**PERIODICALLY DURING CRUISE**

*Fuel Radio Engine Direction Altitude*  
*CHECK FUEL BALANCE -switch tanks*

**DESCENT CHECK**

1	Cowl Flaps push to .....	CLOSE	1
2	Power.....	as required	2
3	Mixture.....	ENRICH as required	3
4	Fuel Quantity .....	CHECK BALANCED	4

End of Checklist

**APPROACH CHECK**

1	Fuel Selector .....	FULLER TANK	1
2	Landing Light.....	ON	2
3	Mixture Control .....	FULL RICH	3
4	Altimeters .....	SET QNH + Compared	4
5	Gear (below 154 KIAS) .....	DOWN / 3 GREEN	5
6	Flaps (below 154 KIAS) .....	App. 15°	6

End of Checklist

**FINAL CHECK**

1	<b>Gear Down/3 Green</b> .....	<b>CHECKED</b>	1
2	Flaps .....	as required	2
3	Propeller.....	FULL FORWARD	3
4	Electric Elevator Trim Switch.....	OFF	4
5	App. Speed on Final.....	80 KIAS	5
6	Vref (0°/15°/full).....	80/75/70 KIAS	6

End of Checklist

**BALKED LANDING/GO AROUND**

Power ..... Full Forward  
 Airspeed..... 70 KIAS  
 Positive ROC .....CHECKED  
 Flaps .....SET 15°  
 Landing Gear ..... UP  
 Airspeed..... 77 KIAS  
 Flaps.....UP

**STARTING A FLOODED ENGINE**

Mixture .....IDLE CUT OF  
 Throttle ..... OPEN (FULL FORWARD)  
 Magneto/Start Switch .....START  
 As engine fires .....THROTTLE IDLE  
 ..... and MIXTURE FULL RICH

**AFTER LANDING CHECK**

1	Flaps.....	UP	1
2	Trim Tab .....	SET to 0°	2
3	Cowl Flaps pull to .....	OPEN	3
4	Pitot Heat .....	OFF	4
5	Propeller Anti Ice Switch .....	OFF	5
6	Taxi/Strobe/Landing Light .....	ON/OFF/OFF	6

End of Checklist

**SHUTDOWN**

1	Parking brake.....	SET	1
2	Throttle .....	1000 RPM	2
3	ELT.....	CHECK not activated	3
4	Hobbs meter .....	NOTED	4
5	Avionic Master .....	OFF	5
6	Electrical consumers except Beacon .....	OFF	6
7	Gen. Switch .....	OFF	7
8	Mixture .....	IDLE CUT OFF	8
9	Magneto/Start Switch .....	OFF	9
10	Beacon .....	OFF	10
11	Bat. Switch .....	OFF	11
12	Control Lock .....	INSTALL	12

End of Checklist