



## USE OF THIST

This Checklist is to be used at all times, together with the Company Operations Manual and Standard Operating Procedures. However, information contained in this Checklist does not take precedence over the CASA approved Aircraft Flight Manual and other regulatory requirements.

The **Normal Checklist** (indicated by a **GREEN** table) contains the routine procedures for normal operation of the aircraft that provide an acceptable level of airworthiness. Checklist titles encased in **BLACK** are to be committed to memory and actioned without recourse to the written checklist.

The **Abnormal Checklist** (indicated by a **YELLOW** table) contains procedures which, if followed, will maintain an acceptable level of airworthiness or reduce operational risk resulting from a failure or abnormal condition. The procedures under this part supplement Normal Checklist when a failure or abnormal condition exists.

The Emergency Checklist (indicated by a RED table) contains procedures to protect the occupants and the aircraft from harm during a critical situation requiring an immediate response. The procedures under this part supplement the Normal Checklist when an emergency condition exists. Checklist titles encased in BLACK are to be committed to memory and actioned without recourse to the written checklist. These are of particular relevance to critical emergency related procedures were immediate action is required.

In addition to the outlined items in both Emergency & Abnormal Checklists, the following steps are considered part of all emergency/abnormal situations:

**Control** the Aircraft

**Assess the Situation** 

**Take Appropriate Action** 



## LIMITATIONS X



AIRSPEEDS		
V NE	202	
V NO	169	
VA	112 - 2700 LBS	
	135 - 3800 LBS	
V FE	111	
V×/VY	82   88	
V LOR   V LOE	109   140	
V LE	140	
V MCA / V YSE	56 / 88	
V so	55	
V sı	57	
VR	75	
V APPROACH	90	
V AT	75	
X-WIND	17	

WEIGHTS	
M TOW	3800 LBS
M LW	3800 LBS
<b>M</b> BAGGAGE	200 LBS

OTHERS	
FUEL	110 USG - TOTAL
	108 USG - USABLE
OIL	4 QTZ - MIN
	6 QTZ - MAX





1. CABIN		
Documentation	Complete & Current	
Landing Gear Control	DOWN	
Switches	All OFF	
Masters	ON	
Landing Gear Lights	3 GREENS	
Fuel Quantities	Check	
Lights & Pitot Heat	All ON & Inspect	
Fuel Selector (2)	ON	
Flaps	Check	
Cowl Flap (2)	Open	
Engine Control Levers	Check Condition & Movement	
	IDLE   FINE   ICO	
Controls	Free	
Trim	Set for T/O	
Pitot & Static System	Drain	
Empty Seats	Fasten Seatbelts	
Emergency Exit	Closed & Locked	

2. RIGHT FUSELAGE & WING		
Fuel Sump Drains	Drain & Inspect	
Wing, Aileron & Flap	Check	
Main Gear, Strut & Tyre	Check Condition & Inflation	
Wing Tip	Check	
Nav & Anti-Collision Lights	Check	
Leading Edge	Check	
Fuel Quantity	Check Visually	
Oil Level	4 QTZ – Min	
Propeller	Check	
Cowl Flap	Open & Secure	



3. NOSE		
Nose Section	Check	
Nose Gear, Strut & Tyre	Check Condition & Inflation	
Tow Bar	Remove & Stow	
Landing Light	Check	
Windshield	Clean	

4. LEFT FUSELAGE & WING		
Cowl Flap	Open & Secure	
Propeller	Check	
Oil Level	4 QTZ – Min	
Fuel Quantity	Check Visually	
Leading Edge	Check	
Stall Warning Vanes	Check	
Pitot/Static Mast	Check & Clear	
Wing Tip	Check	
Nav & Anti-Collision Lights	Check	
Main Gear, Strut & Tyre	Check Condition & Inflation	
Wing, Aileron & Flap	Check	

5. EMPENNAGE		
Empennage	Check	
Stabilator	Check	
Antennas	Check	
Nav & Landing Lights	Check	
Baggage Door	Secure & Lock	











2. START PROCEDURE				
Start LH Engine First				
Normal Hot Flooded				
Magnetos	вотн	вотн	ВОТН	
Throttle	1/4 "	1/2 "	Max	
Mixture	RICH	RICH	ICO	
Fuel Pump	ON	ON	OFF	
Primer	5 – 8 Strokes	-	-	
Starter	Engage	Engage	Engage	
Throttle	-	-	Retard	
Mixture	-	-	RICH	

3. AFTER START		
Throttle	1000 RPM	
Oil Pressure	GREEN within 30 s	
Suction	GREEN	
Ammeter	Charging	
Fuel Pump	OFF	
Repeat From 2. For RH Engine Start		

Fuel Selector (2)	X-Feed
Avionics	ON, Checked Serviceability
Flaps	UP
Radios – COM 1	CTR / CTA
– COM 2	ATIS / AWIS / CTAF
ATIS & QNH	Checked & Set
Transponder	Checked Code & STBY
DG	Aligned
Flight Plan	Loaded & Verified
Fuel Selector (2)	ON



4. TAXI	
Brakes	Checked
Turning Left   Right	Compass & HSI ↓   ↑
	Right   Left Skid
	AI No Topple

5. PRE-TAKE-OFF			
Park into Wind			
	Park Brake	ON	
Т	Throttle (2)	1000 RPM	
	Trims	Tested & Set for T/O	
М	Mixture (2)	RICH	
	Magnetos	вотн	
Mas	sters & Alternators	ON	
Р	Pitch (2)	FINE	
F	Fuel Selector (2)	ON	
	Flaps	Checked & UP	
1	Instruments	Left to Right Checked	
		DG Aligned & HDG Set	
		ALT Set	
	Oil Temperature	GREEN	
	Throttle (2)	1500 RPM	
	Pitch (2)	Feather Check, One at a Time	
	Check LH Engine First		
	Throttle	2000 RPM	
<b>S</b> Swi	tches – Magnetos	L – BOTH – R – BOTH	
		Max Drop <b>175 RPM</b> Each	
		Max Diff <b>50 RPM</b> Between	
	Carby Heat	On, Check for RPM Drop, OFF	



5. PRE-TAKE-OFF (continued)		
Pitch	Cycle <b>3</b> Times:	
	RPM ↓	
	MAP †	
	Oil P's ↓	
Throttle	1500 RPM	
Repeat for RH Engine Run-Ups		
Throttle (2)	IDLE & Checked	
	1000 RPM	
Annunciator Panel	Tested	
C Circuit Breakers	Checked	
Controls	Correct, Full & Free	
H Hatches & Harnesses	Secured	
T.O.S.B. & Taxi Call		

6. LINE-UP		
F	Fuel Pump (2)	ON
	Flaps	UP
A	Avionics	Set Current & Next Frequencies
s	Switches & Lights	Magnetos – BOTH
		Anti-Collision – ON for entering RWY
		Landing – ON for T/O
Т	Transponder	Set ALT when entering RWY
	Trim	Checked
	Oil T's	GREEN
	Pitot Heat	As Required
	Hatches & Harnesses	Secured



7. AFTER TAKE-OFF		
Positive ROC		
Gear	UP	
300 FT		
Flaps	UP	
Lights	Landing – <b>OFF</b>	
Safe ALT		
Fuel Pump (2)	OFF	

	8. PRE-LANDING		
В	Brakes	OFF & Operating	
0	Oil T's & P's	GREEN	
U	Undercarriage	Gear Warning Tested	
		DOWN, 3 <b>GREENS</b>	
М	Mixture (2)	RICH	
	Magnetos	вотн	
	Masters & Alternators	ON	
F	Fuel Selector	ON	
	Fuel Quantities	Checked & Sufficient	
A	Autopilot	Disengaged	
Н	Hatches & Harnesses	Secured	
L	Lights	Landing – ON	

9. SHORT FINAL		
С	Carby Heat (2)	OFF
P	Pitch (2)	FINE
U	Undercarriage	3 GREENS
F	Flaps	As Required
	Rudder Trim	Neutral

10. AFTER LANDING		
F	Fuel Pump (2)	OFF
	Flaps	UP
A	Avionics	Set Current Frequency & Taxi Call
S	Switches	Landing – <b>OFF</b>
		Anti-Collision – OFF / ON if crossing RWY
Т	Transponder	Checked Code & STBY
	Trim	Set for T/O
	Pitot Heat	OFF
	Cowl Flap (2)	Open

11. SHUTDOWN		
Park Brake	ON	
Throttle (2)	IDLE, for <b>2 min</b>	
Avionics	OFF	
Magnetos (2)	L – BOTH – R – BOTH, One at a Time	
Mixture (2)	ICO	
Magnetos (2)	OFF	
Flight Times	Checked	
Masters & Alternators	OFF	
Switches	All OFF	







ELECTRICAL FAILURE			
ALT annunciator light illuminated			
Ammeter	Check		
If <mark>one</mark> ammet	er shows zero		
ALT Switch (affected side)	OFF		
Electrical Loads	Reduce		
ALT Circuit Breaker	Check & Reset		
ALT Switch (affected side)	ON		
If power is r	not restored		
ALT Switch (affected side)	OFF		
Electrical Loads	60 amps max		
If both ammet	If both ammeters show zero		
ALT Switches	OFF		
Electrical Loads	Reduce		
ALT Circuit Breaker	Check & Reset		
ALT Switch (showing least, <b>not</b> zero)	ON		
Electrical Loads	60 amps max		

GYRO SUCTION FAILURE		
RPM	2700 RPM	
ALT	Descend to maintain 4.5 in. Hg.	

FUEL MANAGEMENT – ENGINE INOP		
Fuel Selector (operating engine)	ON or CROSSFEED	
Fuel Selector (inop engine)	OFF	
Fuel Pump	OFF	

PROPELLER OVERSPEED		
Throttle	Retard	
Oil Pressure	Check	
Pitch	Reduce	
IAS	Reduce	



## EMERGENCY CHECKLIST X

ENGINE FAILURE DURING TAKE-OFF	
Throttle	IDLE
Brakes	Applied
ATC	Informed
Masters & Alternators	OFF
Fuel Selectors	OFF

ENGINE FAILURE DURING FLIGHT & ENGINE SHUTDOWN	
Rudder	Maintain Directional Control
Mixture (2)	RICH
Pitch (2)	FINE
Throttle (2)	Max
Flap	Retract
Gear	Retract
Throttle (affected side)	Retard to identiy
If time permits, follow 'ENGINE TROUBLSHOOTING' first	
Pitch (affected side)	Feather, before RPM drops below 950
Mixture (affected side)	ICO
Trim	As required

ENGINE TROUBLESHOOTING	
Fuel Selector	ON
Carby Heat	ON
Primer	Locked
Mixture	As required
Fuel Pump	ON
Magnetos	Left or Right only
If not successful, continue with 'ENGINE SHUTDOWN'	



SECURING DEAD ENGINE	
Fuel Pump	OFF
Magnetos	OFF
Cowl Flaps	Close
Masters & Alternators	OFF
Electrical Load	Reduce
Fuel Selector	OFF
Starter	Engaged

ENGINE RESTART	
Fuel Selector	ON
Fuel Pump	ON
Pitch	Cruise RPM position
Mixture	RICH
Throttle	Two Full Strokes, then ½ "
Magnetos	ON
Starter	Engage until prop windmills
Throttle	Reduce until engine is warm
Alternator	ON

ENGINE FIRE IN-FLIGHT / AFTER TAKE-OFF	
Fuel Selector (affected side)	OFF
Throttle (affected side)	OFF
Pitch (affected side)	Feather
Mixture (affected side)	ICO
Cowl Flap (affected side)	Open
Land ASAP	

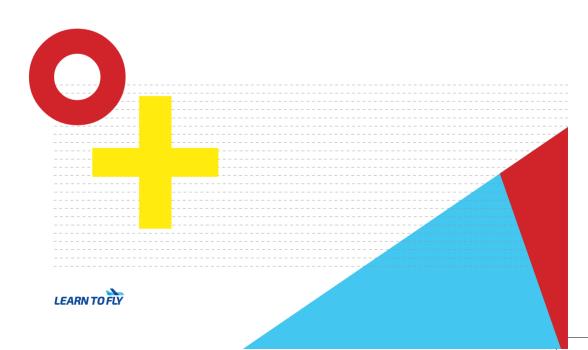
ENGINE FIRE ON GROUND	
Mixture (2)	ICO
Throttle (2)	Max
Starter	Crank



DOOR OPEN	
IAS	82 KTS
Cabin Vents	Close
Storm Window	Open
Latches	Secure

MANUAL GEAR EXTENSION	
IAS	< 100 KTS
Landing Gear	DOWN
Emergency Gear Extension	Pull
Landing Gear Lights	Check GREEN

LANDING GEAR UNSAFE WARNING	
Landing Gear	Recycle
Circuit Breakers	Check
Masters & Alternators	ON
Nav Lights	OFF
If not successful, continue with 'MANUAL GEAR EXTENSION'	



## NOTES



