CHECKLIST

NOTE ON CHECKLISTS

A normal checklist is provided for use in flight. This checklist covers items that are of vital importance to the safety of the flight.

When completing a checklist it is assumed the pilot is familiar with the full operating procedures in the sections following the normal checklist and outlined in the aircraft POH section 4. The checklist is completed after normal flows as a cross check to ensure critical items are set correctly.

Expanded procedures for normal, nonnormal, and emergency operations are provided on the reverse side. These should be used for training aids during type ratings and for personal reference.

As model differences frequently occur, the manufactures handbook for the aircraft you are flying should be referenced to and this checklist must be modified accordingly prior to any use operation!

Speeds and performance figures provided here are an average for the more common C182 models and rounded up to the nearest 5kts.

HAPPY FLIYING

RED SKY CHECKLISTS

Cessna 182

Speeds

NORMAL OPERATION

Unless otherwise stated the following speeds are for MAUW condition.

V _R	55 KIAS
V _x – Best Angle of Climb	65 KIAS
V _Y – Best Rate of Climb	Vy _{si} 80 KIAS
Normal approach	
V _{ref}	
V _A - Maneuvering Speed	111 KIAS
Maximum demonstrated cross	wind15kts

PLACARD/ASI LIMITATIONS

V_{NO} – Top of Green Arc140 k V_{NE} – Red Line (Never Exceed)167 k	
V_{SO} – Stall landing configuration52 HVs – Stall Clean58 H	
V _{FE} – Max. Flap Extension 10-40°110 k V _{EF} – Max. Flap Extension 0-10°140 k	

EMERGENCY OPERATION

Best glide Speed	70	KIAS
Precautionary		
Slow safe Cruise	.90-105	KIAS
Approach (flaps up)	70	KIAS
Approach (flaps full)	65	KIAS
Ditching	65	KIAS
Engine failure after takeoff	70	KIAS
Engine Failure in flight flap up	70	KIAS
Engine Failure in flight flap down		

PERFORMANCE

Before Leaving Home

"I'M SAFE"

Self Check

Illness	
Medication	No
Stress	No
Alcohol in last 8 hrs	
Feeling OK	Yes
Eaten	Yes

Flight Equipment Check

Crew Licenses
Strainer, Dipstick, Leatherman
Current Charts
Airport Guide/Airfield Charts
Custom Checklists
Text Books
Flight Plans
Weather Reports
Flight Computer, Plotter Calculator,
Pencils, Clipboard
Time Piece
Flashlights, Batteries, Bulbs
Cell Phone (Charged)
Spare Glasses, Sun Glasses

Before St	art
Preflight Inspection	
Normal Engin	e Start
Mixture Propeller Power Carburetor Heat Prime Rotating Beacon	RichHigh RPM½ CentimeterCold1-3 as req'd
After sta	rt
Mixture Engine Instruments Taxi, Nav. Lights Flaps Transponder	Set for TaxiCheckAs RequiredRetracted
Taxi	
Brakes Avionics and Flight Instrum Nav instruments	entsCheck/Set
Pre Run l	Jp
Parking Brake Fuel Selector Engine Instruments Cowls	Set Both Green

SPCRM

NORMAL CHECKLIST

Maximum TO/Ldg Weight 2800lbs Standard Empty Weight 1600lbs Useful Load 1200lbs **Operating performance** Fuel Capacity (useable) ..56gals Standard..... Long Range......75gals Fuel Consumption 75%@2500ft..... 55lt /hr 75%@7500ft..... 45 /hr Planning..... 60 /hr Plan Cruise speed...... 125KTAS **Other Information Transponder Codes:** Unlawful Interference......7500 Loss of Communication7600 Emergency7700 **Radio Frequencies** Emergency Frequencies......121.5/243 All Africa TIBA......126.9 Uncontrolled/Unmanned:124.8 Training Areas:124.4 **Light Signals** Signal On Ground In Flight Takeoff Land **Green** Steady Taxi **Green** Flashing Return to land **Red** Steady Stop Give way

Clear runway

Return to ramp

PERFORMANCE

WARNING – USE CAUTION

Do not land

Red Flashing

Red/Green

alternating

White Flashing

Loading

	,
Power	Set
Mixture	Set
Carb Heat	
MagnetosCheck Lef	
Propeller Governor	Cycle
Engine Instruments	Check
Vacuum	Check
Ammeter	Check with load
DI	Set to Compass
Throttle friction lock	Set
Idle	Check
Pre-Take	off
Pre-Take	Set for takeoff
Mixture	Set for takeoff
Magnetos	
Propeller Governor	Full fine
Flight Controls	Free and Correct
Flaps	Set for takeoff
Cowl Flaps	Open
Instruments	Checked and Set
Radios	Set for Departure
Navigation / GPS	Set for Departure
Hatches	Closed, Locked
Harnesses	Secure
Engine Runup	Complete
Engine Instruments	Checked
Electrics	CB's Checked
Emergency & Dep. brief	Perform
Line Up	
Line Up	Clear
Landing light, strobes	On
Transponder	Set to altitude
DIAligned v	vith Compass, Rwy
Area	
Windsock	Check
Engine Parameters	Green

NORMAL CHECKLIST

Brakes	After Takeoff (a	above 1000' AGL
Power/Pitch	Brakes	Check
Mixture	Power/Pitch	Set
Flaps	Mixture	Adjust
Engine Parameters		
Power/Prop	Engine Parameters	Green
Power/Prop	Lights	As required
Elevator/Rudder trim	Power/Prop	Set
Cowl Flaps	Elevator/Rudder trim	Adjust
Descent Fuel Correct Tank, Qty checked Radios Set Approach Briefing Complete Cowl Flaps Closed Mixture Set Power/Prop Set Ling As required Lights On/as req'd Downwind Brakes Undercarriage Down & Locked Power/Prop Set Mixture Set Fuel Correct Tank Flaps Set Engine Parameters Green Lights As required Seats / Seatbelts Check Secure Fuel Selector Both Carb Heat As Required Final Cowl Flaps Open Carb Heat Off Undercarriage Down & Locked		
Radios Set Approach Briefing Complete Cowl Flaps Closed Mixture Set Power/Prop Set Icing As required Lights On/as req'd Downwind Brakes Check Undercarriage Down & Locked Power/Prop Set Mixture Set Fuel Correct Tank Flaps Set Engine Parameters Green Lights As required Seats / Seatbelts Check Secure Fuel Selector Both Carb Heat As Required Final Cowl Flaps Open Carb Heat Off Undercarriage Down & Locked		
Approach Briefing. Complete Cowl Flaps. Closed Mixture. Set Power/Prop. Set Icing. As required Lights. On/as req'd Downwind Brakes. Check Undercarriage. Down & Locked Power/Prop. Set Mixture. Set Fuel. Correct Tank Flaps. Set Engine Parameters. Green Lights. As required Seats / Seatbelts. Check Secure Fuel Selector. Both Carb Heat. As Required Final Cowl Flaps. Open Carb Heat. Off Undercarriage. Down & Locked		
Cowl Flaps Closed Mixture Set Power/Prop Set Icing As required Lights On/as req'd Downwind Brakes Check Undercarriage Down & Locked Power/Prop Set Mixture Set Fuel Correct Tank Flaps Set Engine Parameters Green Lights As required Seats / Seatbelts Check Secure Fuel Selector Both Carb Heat As Required Final Cowl Flaps Open Carb Heat Off Undercarriage Down & Locked	Approach Briefing	Set Complete
Power/Prop	Cowl Flaps	Closed
Icing		
Lights	Icing	As required
Brakes	Lights	On/as req'd
Undercarriage	Brakes	nwind Check
Mixture	Undercarriage	Down & Locked
Fuel	Power/Prop	Set
Flaps	Fuel	Correct Tank
Lights As required Seats / Seatbelts Check Secure Fuel Selector Both Carb Heat As Required Final Open Carb Heat Off Undercarriage Down & Locked	Flaps	Set
Seats / Seatbelts	Engine Parameters	Green
Carb Heat	Seats / Seatbelts	Check Secure
Carb HeatOff UndercarriageDown & Locked	Fuel Selector	Both
Carb HeatOff UndercarriageDown & Locked	Fi	nal As Required
Carb HeatOff UndercarriageDown & Locked	Cowl Flaps	Open
	Carb Heat	Off

After Takeoff (above 1000' AGI

NORMAL CHECKLIST

Short field take-off

wing Flaps	∠∪ aeg
Brakes	APPLŸ
Power	Maximum
Mixture	Set for Field Elevation
Brakes	RELEASE
Elevator Control	Slightly Tail Low
Lift Nose	60KIAS
Maintain	65KIAS
Until clear	r of Obstacles

Accelerate	80KIAS
Wing Flaps (above70KIAS)	
Power	

Note: Do not reduce power until wing flaps have been retracted.S

Soft field take-off

Wing Flaps	Maximum for field
Line up	Do not stop rolling
Takeoff roll	Nose high
Liftoff	Minimum speed
	65KIAS
Until clear of Obstacles	, continue with Short Field
Prod	cedure

Maximum Performance Climb

ABNORMAL PROCEDURES

is achieved, the reduction to best angle of climb

may result in zero or negative rate of climb.

Abnormal Maneuvers

HASELL

Complete prior to conducting stalls, spins and
approved aerobatic maneuvers
HeightSufficient for recove
Above 3000ft A
AirframeLimitations Reviewe
Configuration Reviewe
garation reviews
SecuritySeatbelts/Passengers/Loa
EngineTemperatures/Pressure
Power/Pitch Mixture Checke
LocationNot over built up area
airfields or controlled airspace High Terrain
Within proximity of suitable landing areas
LookoutComplete a lookout tu

Engine failure

NOTE: Bold Items are immediate recall Items, other times may be followed up by

the use of the AF	·M checklist.
Throttle	IDLE
Brakes	Apply
Flaps	
Mixture	
Ignition	
Master switch	
AFTER TA	
Airspeed	70 KIAS Flaps Up
6	5 KIAS Flaps Down
Mixture	Idle Cut-off
Fuel shutoff valve	OFF
Ignition	OFF
Flaps	
Master switch	
DURING F	LIGHT
IMMEDIATE ACTIONS	
Airspeed	70KIAS
Carb Heat	
Field	Select
Approach	Plan
FINDING	
Carb Heat	ON
Primer	
Fuel Shutoff valve	
Mixture	
Ignition	BOTH (or START)

Touchdown.....tail low
Note: It is recommended that engine failure
during fight procedures be committed to
memory

Mayday......Transmit on Active or 121.5
Transponder.....7700
Passengers....Brief

Flaps.....as required

Master switch......Off

Doorsunlatch

COMMUNICATE

SECURE

FINAL

ABNORMAL PROCEDURES

EMERGENCY PROCEDURES

After Landing		
Cowl Flaps	Оре	
Trim		
Flaps	Retrac	
Carb Heat	O	
Land, Strobe lights	O	
Transponder	Standb	
Shutdown and Securing		
Power	ldl	
Avionics and Switches	O	
Mixture	Idle Cuto	
Mags	O	
Master	O	
Control Lock	I	
Hobbs and Tach	Recor	
Tie Downs	Attache	

Short field landing
Flaps
Soft field landing
Flaps
Crosswind take-off
Wing Flaps Minimum for field Takeoff roll Ailerons Into wind Liftoff Ailerons Neutra Liftoff Vr nml+ After takeoff Crab into wind for drift
Crosswind landing
Wing Flapsminimum for field length (and as required by strength of wind) Approachcrab into wind
TouchdownNose straight, into wind wheel first
After landingAilerons into wind Note: maximum demonstrated crosswind
Go-around
Go-around Mixture/Pitch/ThrottleForward Wing FlapsRetract to Takeoff BrakesAPPLY
Wing FlapsRetract to Takeoff

ABNORMAL PROCEDURES

NORMAL CHECKLIST

Engine Fire
during start
Starter
Inspect damage during flight
Mixture
Cabin Fire
On the Ground
Master Switch
During flight
Follow Above Procedure, Once Fire is extinguished: Electrics/AvionicsO MasterOI Avionics/ElectricsOn, one at a tim Land at the nearest Suitable Airfield
Electrical Fire
Unknown Source Master SwitchOF
Avionics and ElectricsOF Circuit BrekersPUL If Smoke Ceases: Master SwitchOI Essential Electrical/AvionicsOn, One at time

EMERGENCY PROCEDURES

Electrical failure

Load	Verify
	Reduce to minimum
Alternator	
Alternator CB	Trip&Reset
Alternator	
If no Power	
Alternator	OFF

PLAN To land at nearest suitable airfield,
Conserve Battery as much as possible,
All non essential electrics off, if necessary
Inform ATC and turn master off until
approaching circuit.
Be prepared for implications of electrical
failures on systems(flaps/gear)

Electrical overload

Ziectiicai overioaa	
Load	verify
Alternator	OFF
Alternator CB	Trip&Reset
Alternator	ON
Load	OK?
If Not: Master Master	

IF LOAD still not does not return to normal land at nearest suitable airfield.

Carburetor Icing

Fully ON

Carb Heat

Carb ricat	uny Orv	
Mixture	Adjust	
Once icing/roughness has cleared;	•	
Carb Heat	Cold	
Mixture	Reset	
Engine Roughness		
Magnetos	Check	
Mixture		

Temperatures/Pressures.....Check

If roughness continues, plan to land at

nerest suitable airfield.

Cockpit Inspection

Aircraft documents	Check
Pilot's Operating Handbook	
Aircraft Weight & Balance records	
Certificate Of Airworthiness a	
Certificate of Registration	
Maintenance Release Aircraft Radio license	
Flight Folio	
Control wheel lockl	Remove
Hobbs/TachCheck	
Ignition	
Avionics Master (if fitted)	
Master Switch	
Fuel quantity indicators	
Flaps	
LightsOn and Check (i	
Pitot heatOn and Check (i	f Reg'd)
Master Switch	
Fuel shutoff valve	
Brakes Test	
Gust Locks	
Covers and tie downsl	
Covers and the downs	76111076

NOTE: PROPELLERS SHOULD BE TREATED AS LIVE AT ALL TIMES REGARDLES OF THE POSITION OF ENGINE CONTROL SWITCHES

Fuselage and Empenage

Baggage Door	Check and Lock
Rivets	Check, Secure
Nav Light	Check, Secure
Elevator	Free movement, Secure
Elevator Trim	Check, Secure
Balance weights	SSecure
Lock wires	Check, Secure
Radio antennas	Check, Secure
Balance weights	SSecure
Rudder	Free, Secure
Beacon	Check, Secure

Before starting engine

Chocks	Removed
Preflight	Complete
Seats/Seat Belts	Adjusted & Locked
Brakes	Set and Hold
Cowl Flaps	Open
Fuel Selector	Fullest Tank
Lights	OFF
Circuit Breakers	
Clock	Set
Altimeter	Set
Avionics	OFF
Electrical Equipment	OFF
Beacon	

Normal Start Mixture......Rich

Propeller	High RPM
Power	½ Centimeter Open
Carburetor Heat	Čold
Magnetos	Both
Prime	1-3 as req'd
Rotating Beacon	Òn
Master Switch	On
Prop Area	Clear
START Accomplish:	Граза
Idillion Switch	Engage

Flooded Start

Throttle......Minimum

Oil Pressure.....Rising within 30s

As engine fires:

. Cut-Off
Full
Clear
.Engage
0 0
Rich
num rpm
rithin 30s

Before Takeoff

("Too Many Pilots Fly	
Test Controls	Free & Correct
T rim	Set for T/O
Throttle friction lock	Set
Mixture	Set for takeoff
Magnetos	Both
Propeller Governor	
Primer	
Pumps	
Flight Controls	
Flaps	
Cowl Flaps	
Fuel	
Instruments	Checked and Set
Radios	Set for Departure
Navigation / GPS	Set for Departure
Hatches	
Harnesses	Secure
Engine Instruments	Checked
Electrics	CB's Checked
Emergency, dep. brief.	Perform

Line-Up Runway/Approach......Clear Landing light, strobes......On Transponder.....Set to altitude

ransponaci		or to aititua
)	Aligned with Co	mpass, Rw
ingine Temps a	and Pressures	Chec

Normal Takeoff Power Full

Manifold Pressure	
Engine parameters Rotate	

Airbourne with no runway left, with positive climb and above minimum retraction speed

Climb Speed70-90 KIAS

Brakes Apply (when airborne)
Clear of obstacles and safe climb speed

Wing Flaps Retract Power Set for climb

Spin Recovery

Allerons	NEU I RAL
Throttle	IDLE
Con	firm direction
RUDDER	FULL OPPOSITE
Elevator	Forward to break stall
RudderNeutra	lise when spinning stops
Pitch	Ease out of dive

Plan to land at the nearest Airfield

EMERGENCY PROCEDURES

Right wing

Aileron	.Free movement,	Secure
Balance weights		.Secure
Lock wires	Check,	Secure
Nav Light	Check,	Secure
Flaps	Check,	Secure
Flap runners		
Main wheel tire		
Brakes	Secure, co	ondition
Fuel tank sump		Sample
	ated sampling contan	
	maintenance, DO NO	
Fuel Quantity	Check \	/isually
Fuel Filler can		Socuro

Nose

Engine oil level	Check
Fuel strainer	Sample
Propeller and spinner	Check
Alternator belt	Check
Air intake	Check
Carburetor air filter	Check
Landing lights	Check
Nose wheel strut & tire	Check
Nose-Tie down	Disconnect
Static source opening	Check

Left Wing

-	cit willig
Aileron	Free movement, secure
	sSecure
Lock wires	Check, Secure
Nav Light	Check, Secure
Flaps	Check, Secure
Flap runners	Greased, correct play
Main wheel tire.	Proper Inflation
Brakes	Secure, condition
Fuel tank sump.	Sample
Fuel Quantity	Check Visually
	Secure
Pitot Tube	Check
Stall Warning	Check
	OpeningCheck

After Start

Throttle	1000 rpm
Mixture	Set for Taxi
Engine Instruments	Check
Taxi, Nav. Lights	As Required
Flaps	Retract
Avionics Master	On
Transponder	

Taxi

Brakes	Release, Check
Avionics	Check/Set
Flight Instruments	Check/Set
Nav instruments	Tes
Fuel Tanks	Check

Run-up

Parking Brake	Set
Fuel Selector	Both
Engine Instruments	Green
Cowls	
Prop area	•
Power	
Mixture	
Carb Heat	
MagnetosCheck Le	
(150rpm drop, 50	
Propeller Governor	
Engine Instruments	Check
Vacuum	Check
Ammeter	
DI	Set to Compass
ThrottleIdle	, Check minimum rpm
Throttle	Reset 1000rpm

After Takeoff

Aitei	
	Check
Undercarriage	Up
Power/Pitch/Mixture.	Set
FuelCo	orrect tank, pump Off
Flaps	Up
Temp/Pressures	Checked
Landing Lights	OFF

Normal Climb

Airspeed	90-100 KIAS
	23" and 2450RPM
Mixture	Lean above 3000f
Cowl Flaps	Oper

Cruise

Power	23", 2400RPM
Elevator and Rudder	TrimAdjust
Mixture	Lean for Cruise
Cowl Flaps	As Required
Engine Temp/Pressu	ıresCheck
Fuel(Check/Change tanks
Traffic	Check
Radio	Transmit
Estimated Times	Record

Enroute

'SAFIER'

Suction	Checked
A mps	Checked
Fuel	Checked
Icing	As Required
Engine Power/Pitch/Mix	dureSet
Engine Temp/Pressure	sChecked
Engine Cowl Flaps	As Required
Radios/Nay/DI	Checked and Set

Descent/Approach

'FREDALS'

Fuel	Correct Tank
Fuel Qty	Check
Radios/NavSet	/Clearance Obtained
Engine Power/Pitch/	MixtureSet
Engine Temp/Pressu	ıresChecked
Engine Cowl Flaps	As Required
D IA	ligned with Compass
Altimeter	Set
Landing Lights	As Required
Seats/belts, Doors	Adjusted&Locked

Approach Set Up

Below Vfe, first stage
Check
geDown
MixtureSet
Correct Tank
suresChecked
ntsOFF
eltsSecure

Downwind Checks

Check	
Down	
Set	
ps As req'd	
Checked	
ON	
Secure	

Final Approach

'CUP

CU	r
Cowls	Oper
Carb Heat	Čolo
Undercarriage	Down and Locked
Power/Pitch/Mixture	Se

Normal Landing

Touchdown	Main Wheels First
Nose Wheel	Lower Gently
Braking	Minimum Required

NORMAL PROCEDURES expanded checklist

NOTE ON CHECKLISTS

A normal checklist is provided for use in flight. This checklist covers items that are of vital importance to the safety of the flight.

When completing a checklist it is assumed the pilot is familiar with the full operating procedures in the sections following the normal checklist and outlined in the aircraft POH section 4. The checklist is completed after normal flows as a cross check to ensure critical items are set correctly.

Expanded procedures for normal, nonnormal, and emergency operations are provided on the reverse side. These should be used for training aids during type ratings and for personal reference.

As model differences frequently occur, the manufactures handbook for the aircraft you are flying should be referenced to prior to operation.

HAPPY FLYING!

RED SKY CHECKLISTS Cessna 182

CONTENTS:

Preflight Inspection

START AND TAXI

PRETAKEOFF

TAKEOFF & CLIMB

CRUISE & DESCENT

APPROACHLANDING

After landing

After landing

Parking	
Parking Brake	SET
	Record
	OFF
	Dead Cut Checked
	Cut-Off
Ignition	OFF
Master Switch	OFF
Control Lock	Installed
Paperwork	Complete

Securing the aircraft Control Lock Installed Paperwork Complete Tie downs/covers Installed

Compilation notes

These pages are printed front and back side, then cut around the text the first few pages need to be trimmed and bound to create a flip style checklsist with tabs at the front, and the expanded procedures on the reverse side. It might take a bit of time to work it out, but the result is quite effective for use by students when they are learning.

If you like jigsaw puzzles have fun!