

# REDSKY CHECKLISTS

## NORMAL CHECKLIST

### Cruise

Power/Prop.....SET  
 Elevator/Rudder trim.....ADJUST  
 Mixture.....LEAN FOR ALTITUDE  
 Cowl Flaps.....CLOSED/AS REQ'D

### Descent

Fuel.....CORRECT TANK, QTY CHECKED  
 Radios.....SET  
 Engine Instruments.....CHECKED  
 DI.....ALIGNED  
 Approach Briefing.....COMPLETE  
 Altimeter.....SET  
 Mixture.....SET  
 Cowl Flaps.....CLOSED  
 Lights.....ON/AS REQ'D

### Downwind

Seats / Seatbelts.....CHECK SECURE  
 Fuel.....FULLER TANK  
 Brakes.....CHECK  
 Landing Gear.....DOWN, GREEN LIGHT  
 Mixture.....SET

### Final

Cowl Flaps.....OPEN  
 Mixture.....SET FOR GO ROUND  
 Landing Gear...DOWN, ONE GREEN LIGHT  
 Propeller Pitch.....FULL FINE

### After Landing

Cowl Flaps.....OPEN  
 Wing Flaps.....RETRACT  
 Land, Strobe lights.....OFF  
 Transponder.....STANDBY

### Shutdown and Securing

Power.....IDLE  
 Avionics and Electrics.....OFF  
 Mixture.....IDLE CUTOFF  
 Magnetos.....OFF  
 Master.....OFF

## REFERENCE INFORMATION

### Speeds

#### NORMAL OPERATION

Unless otherwise stated the following speeds are for MAUW, Sea Level, ISA conditions.

$V_{1/0.50ft}$  - Flap 10 (max perf.) .....69 KIAS  
 $V_x$  - Best Angle of Climb .....80 KIAS  
 $V_y$  - Best Rate of Climb..... $V_{y1}$  96 KIAS  
 $V_y$  - Best Rate of Climb..... $V_{y10,000ft}$  89 KIAS  
 $V_{ref}$  - Minimum Approach Speed.....72 KIAS  
 $V_A$  - Maneuvering Speed.....125-101 KIAS  
 Maximum demonstrated crosswind.....21kts

#### PLACARD/ASI LIMITATIONS

$V_{NO}$  - Top of Green Arc .....165 KIAS  
 $V_{NE}$  - Red Line (Never Exceed).....200 KIAS  
 $V_S$  - Stall Clean .....69 KIAS  
 $V_{SO}$  - Stall landing configuration.....57 KIAS  
 $V_{FE}$  - Max. Flap Extn 0-30° .....115 KIAS  
 $V_{FE}$  - Max. Flap Extn 0-10 ° .....150 KIAS  
 $V_{LO}$  - Max. Gear Extension.....165 KIAS  
 $V_{LR}$  - Min. Flap Retraction.....80 KIAS

#### EMERGENCY OPERATION

Best glide Speed.....75-85 KIAS  
 Precautionary Landing:  
 -Slow Safe Cruise.....90-110 KIAS  
 -Approach (flap up).....85 KIAS  
 -Approach (flap full).....75 KIAS  
 Ditching (full flap).....75 KIAS  
 Engine failure after takeoff (flap up).....85 KIAS  
 Engine failure A.T.O.(flap down).....80 KIAS  
 Engine Failure in flight.....85 KIAS  
 Landing without power (flap up).....90 KIAS  
 Landing without power (flap down).....80 KIAS

#### Operating performance

.....65lt/hr  
 .....145KTAS

#### Other Information

Codes:  
 .....7500  
 .....7600  
 .....7700  
 .....2000

21.5/243  
 .....126.9  
 .....124.8  
 .....124.4

**1979**  
 VERSION 2

**This checklist is a guide to coordinate Pilot Operating Handbook and STC data applicable to this particular aircraft only.**

**The applicable Pilot Operating Handbook and STC installations remain the official documentation for this aircraft.**

**The pilot in command is responsible for complying with all items in the Pilot Operating Handbook and applicable STCs.**

**I certify this checklist has been reviewed for accuracy.**

1/1/06

Director of Maintenance Date

# Checklists Notes

## ABOUT CHECKLISTS

Standard operating practices in aviation have advanced somewhat since the first Cessna was sold commercially. So much so that the latest Cessna's are equipped with glass cockpits! It is a great tribute to Clyde Cessna that we are still flying the early models in General Aviation today, however the procedures issued with the aircraft are no longer enough for the complex environment and in striving towards the ultimate aviation goal of zero accident rate.

Standard accepted practices now define the use and application of checklists for normal, abnormal, and emergency operations. This introduction attempts to explain these concepts to those not familiar with checklist operation in the attempt to prevent misuse.

A checklist is used to confirm completion of vital actions, AFTER completion of all required actions, on each critical stage of the flight. As such checklists attempt to include critical items only, especially where inflight operation is concerned.

Acronyms and flow patterns provide useful memory aids for completion of the required actions prior to reading the checklist, and for this purpose generic acronyms and standard flow patterns are highly recommended on light aircraft, especially if operating on more than one type.

A checklist, however, should not be generic, and needs to be modified for your aircraft type and serial number, which is why this document is free. If you wish to obtain a personalised checklist for your aircraft, see more details below.

When reading a normal checklist, the item should be read, followed by a glance at the item (eyes normally but follow through with touch is ok), and the *required* response. To keep track of where you are on the checklist normally the checklist is read with thumbs on each side of the item being checked, or one thumb next to the item being checked. Single column checklists are normally easier for this, but we found the A5 format easiest for reference in a single pilot environment. Users can choose customise layout to suit their own purposes.

In the early days of checklist use, they were often used incorrectly as 'do-lists'. Do-lists are where a pilot read the item, then completed the action required and read the response. Do-lists should normally only be used for emergencies and abnormal operations. A Do-list contains BOLD items, or boxed items, which must be memorised. The philosophy of BOLD memory recall items has only been introduced in Cessna aircraft in the 1980s. Checklists from manuals produced prior to this, and updated, have been included BOLD items based on common sense application of later models requirements. Early flight manuals complicate this concept by listing 'DO-lists' only in the normal operating procedures. The easy way to see if this is the case, is by the appearance of items such as 'Starter.....ENGAGE'.

This is clearly not an item that needs to be checked but an action that should be accomplished, and this makes the process rather confusing. Common sense application of later checklists and standad practises must be used in this case.

## CHECKLISTS IN A SINGLE CREW OPERATION

It may not always be practical to read a checklist in flight for a single pilot aircraft. If checklists are used in flight, it is recommended that a 'control column' type checklist is used, whereupon the critical in flight checks are attached (either

permanently with glue or temporarily with press-stick for example) to the control column or similar location where they can be read easily without distraction from flying duties. A velcro dot can be used if the whole checklist is to be placed in a relevant position, so that you can position the checklist in the desired position for takeoff and landing and stow the checklist at other times.

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#### MODIFICATION

to modify this document to make it useable in an aircraft:  
(open office version)

- Remove the unwanted pages
- Review and audit all the speeds and checklists according to the aircraft's POH;
- ensure all operating supplements and additional equipment are included;
- review the checklist for any local or operator differences (frequencies, cold/hot weather, high altitudes, ATC);
- Change the model type, year and include the serial number on each page
  - Change the aircraft registration and type in the footer, include the operator if required;
- Include the operating note on the last page with a signature from the responsible person in your organisation, as required;
  - Print, lamin adsxt eds da nddxc dxc
- Where required submit the checklist to the civil aviation authority with your POH for approval

#### SERVICES

If you require help with your checklist customisation, email the author, this service is available by providing your aircraft type and serial number, a scanned copy of the POH, and a photograph of the aircraft operating panels.

DISCLAIMER

The checklists provided in this document are based on standard international training practices. And they have been compiled from the information contained in the C210 Pilot's Operating Handbooks.

These checklists must be used by an appropriately licensed pilot, and may not be used in any manner that contradicts the manufacturers Pilot's Operating Handbook. Content of the checklist must be checked for compliance with your aircraft's serial number specific Manufacturer's Pilot's Operating Handbook.

The author accepts no liability for incorrect use of these checklists.

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**This checklist is a guide to coordinate Pilot Operating Handbook and STC data applicable to this particular aircraft only.  
The applicable Pilot Operating Handbook and STC installations  
Remain the official documentation for this aircraft.  
The pilot in command is responsible for complying with all items  
in the Pilot Operating Handbook and applicable STCs.  
I certify this checklist has been reviewed for accuracy.**

\_\_\_\_\_  
Signature Responsible Person

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date (dd-mmm-yy)

# CESSNA NORMAL CHECKLIST

## Pre Start

Tach/Hobbs/Time.....RECORDED  
Passenger Briefing.....COMPLETE  
Preflight Inspection.....COMPLETE  
Seats / Seatbelts.....ADJUST, LOCK  
Brakes.....SET/HOLD  
Cowl Flaps.....OPEN  
Avionics.....OFF  
Electrical Equipment.....OFF  
Landing Gear .....DOWN  
Fuel Selector Valve.....FULLER TANK  
Mixture.....RICH  
Propeller.....HIGH RPM  
Rotating Beacon.....ON  
-----MASTER ON, READY TO START-----

Landing Gear Horn.....PRESS TO TEST  
Circuit Breakers.....CHECK IN  
Prime.....AS REQ'D  
Throttle.....½ CENTIMETER  
Prop Area.....CLEAR

## After Start

Oil Pressure.....GREEN  
Mixture.....SET FOR TAXI  
Engine Instruments.....CHECK  
Taxi, Nav. Lights.....AS REQUIRED  
Flaps.....RETRACTED  
Transponder.....STANDBY

## Taxi

Brakes.....RELEASE, CHECK  
Alternate Tank.....CHECKED  
Flight Instruments.....TEST AND CHECK  
Nav instruments .....TEST

## Pre-Run Up

Parking Brake.....SET  
Cabin Doors/Windows .....CLOSED/LOCKED  
Cowls.....OPEN  
Fuel Selector.....FULLER TANK  
Mixture .....SET  
Engine Instruments.....GREEN

C210N 1979

# NORMAL CHECKLIST

## Pre Takeoff

Flight Controls.....FREE AND CORRECT  
Trims .....SET FOR TAKEOFF  
Mixture.....CHECKED, SET FOR TAKEOFF  
Power.....1700RPM CHECKED  
Engine Instruments...CHECKED AT 1700rpm  
Magnetos.....CHECKED  
Propeller Governor .....CYCLED  
Ammeter.....CHECKED UNDER LOAD  
Suction Gauge.....CHECKED  
DI .....SET TO COMPASS  
Throttle friction lock.....SET  
Idle.....CHECKED  
Magnetos .....BOTH  
Propeller Pitch .....FULL FINE  
Fuel.....CORRECT TANK, QTY CHECKED  
Flaps.....SET FOR TAKEOFF  
Radios.....SET FOR DEPARTURE  
Navigation / GPS.....SET FOR DEPARTURE  
Flight Instruments.....CHECKED AND SET  
Seats and Seatbelts.....SECURE  
Electrics.....CB's CHECKED  
Emergency & Dep. Brief.....COMPLETED  
Takeoff Power Setting/Fuel Flow.....NOTED  
Park Brake.....RELEASED

## Line Up

(REmember What To Do Last)

Runway Area.....CLEAR  
Engine Parameters.....GREEN  
Wind.....CHECK  
Transponder.....SET TO ALTITUDE  
DI.....ALIGNED WITH COMPASS  
.....CORRECT RWY HEADING  
Landing light, strobes.....ON

## After Takeoff (above 1000' AGL)

Brakes.....CHECK  
Undercarriage.....UP, ORANGE LIGHT  
Power/Pitch.....SET  
Mixture.....ADJUST  
Fuel.....CHECKED  
Flaps.....UP  
Engine Parameters.....GREEN  
Lights.....AS REQUIRED

# NORMAL CHECKLIST

## Cruise

Power/Prop.....SET  
Elevator/Rudder trim.....ADJUST  
Mixture.....LEAN FOR ALTITUDE  
Cowl Flaps.....CLOSED/AS REQ'D

## Descent

Fuel .....CORRECT TANK, QTY CHECKED  
Radios.....SET  
Engine Instruments.....CHECKED  
DI.....ALIGNED  
Approach Briefing.....COMPLETE  
Altimeter.....SET  
Mixture.....SET  
Cowl Flaps.....CLOSED  
Lights.....ON/AS REQ'D

## Downwind

Seats / Seatbelts.....CHECK SECURE  
Fuel.....FULLER TANK  
Brakes.....CHECK  
Landing Gear.....DOWN, GREEN LIGHT  
Mixture.....SET

## Final

Cowl Flaps.....OPEN  
Mixture.....SET FOR GO ROUND  
Landing Gear....DOWN, ONE GREEN LIGHT  
Propeller Pitch.....FULL FINE

## After Landing

Cowl Flaps.....OPEN  
Wing Flaps.....RETRACT  
Land, Strobe lights.....OFF  
Transponder.....STANDBY

## Shutdown and Securing

Power.....IDLE  
Avionics and Electrics.....OFF  
Mixture.....IDLE CUTOFF  
Magnetos.....OFF  
Master.....OFF  
Control Lock.....INSTALLED  
Tach/Hobbs/Time.....RECORDED

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# REFERENCE INFORMATION

## Speeds

### NORMAL OPERATION

Unless otherwise stated the following speeds are for MAUW, Sea Level , ISA conditions.  
 $V_{T/O 50ft}$  - Flap 10 (max perf.) ..... 69 KIAS  
 $V_X$  - Best Angle of Climb ..... 80 KIAS  
 $V_Y$  - Best Rate of Climb .....  $V_{y_{sl}}$  96 KIAS  
 $V_Y$  - Best Rate of Climb.....  $V_{y_{10,000ft}}$  89 KIAS  
 $V_{ref}$  - Minimum Approach Speed..... 72 KIAS  
 $V_A$  - Maneuvering Speed..... 125-101 KIAS  
Maximum demonstrated crosswind..... 21kts

### PLACARD/ASI LIMITATIONS

$V_{NO}$  - Top of Green Arc ..... 165 KIAS  
 $V_{NE}$  - Red Line (Never Exceed)..... 200 KIAS  
 $V_S$  - Stall Clean ..... 69 KIAS  
 $V_{SO}$  - Stall landing configuration..... 57 KIAS  
 $V_{FE}$  - Max. Flap Extn 0-30°..... 115 KIAS  
 $V_{FE}$  - Max. Flap Extn 0-10 °..... 150 KIAS  
 $V_{LO}$  - Max. Gear Extension..... 165 KIAS  
 $V_{LR}$  - Min. Flap Retraction ..... 80 KIAS

### EMERGENCY OPERATION

Best glide Speed..... 75-85 KIAS  
Precautionary Landing:  
-Slow Safe Cruise..... 90-110 KIAS  
-Approach (flap up)..... 85 KIAS  
-Approach (flap full)..... 75 KIAS  
Ditching (full flap)..... 75 KIAS  
Engine failure after takeoff (flap up)... 85 KIAS  
Engine failure A.T.O(flap down)..... 80 KIAS  
Engine Failure in flight ..... 85 KIAS  
Landing without power (flap up)..... 90 KIAS  
Landing without power (flap down)... 80 KIAS

## Operating performance

Planning..... 65lt/hr  
Plan Cruise speed..... 145KTAS

## Other Information

### Transponder Codes:

Unlawful Interference..... 7500  
Loss of Communication ..... 7600  
Emergency ..... 7700  
Unassigned..... 2000

### Radio Frequencies

Emergency Frequencies..... 121.5/243  
All Africa TIBA..... 126.9  
Uncontrolled/Unmanned: ..... 124.8  
Training Areas:..... 124.4

# EMERGENCY PROCEDURES

## Engine Failure

### TAKEOFF

**NOTE: Bold Items are immediate recall items, other times may be followed up by the use of the AFM checklist.**

Throttle.....IDLE  
Brakes.....APPLY  
Flaps.....UP  
Mixture.....CUTOFF  
Ignition.....OFF  
Master switch.....OFF

### AFTER TAKEOFF

Airspeed.....85KIAS  
Mixture.....CUTOFF  
Fuel Selector Valve.....OFF  
Ignition.....OFF  
Gear.....AS REQUIRED  
Flaps.....AS REQUIRED  
Master switch.....OFF

### DURING FLIGHT

#### IMMEDIATE ACTIONS

Airspeed.....85KIAS  
Field.....SELECT  
Approach.....PLAN

#### FAULT FINDING/RESTART

Fuel Quantity.....CHECK  
Fuel Selector Valve.....ON FULLER TANK  
Mixture.....RICH  
Fuel Pump.....ON 3-5 SECONDS  
Ignition.....BOTH  
(or START if not windmilling)

Throttle.....ADVANCE  
If no start obtained proceed with Forced  
Landing Procedure

#### COMMUNICATE

Mayday.....Transmit Active or 121.5  
Transponder.....7700  
Passengers.....BRIEF

#### SECURE

Mixture.....CUTOFF  
Fuel Selector.....OFF  
Ignition.....OFF

C210N 1979

#### FINAL

Airspeed.....90KIAS (flap up)  
.....80KIAS (flap down)  
Gear.....AS REQUIRED  
Flaps.....AS REQUIRED  
Master switch.....OFF  
Doors.....UNLATCH  
Touchdown.....TAIL LOW

## Engine Fire

### During Start

Starter.....CRANK

To draw away flames, If Engine Starts:

Power.....1700RPM

For a few minutes until flames appear to be extinguished, or if engine does not start:

Mixture.....CUT-OFF  
Ignition.....OFF  
Master.....OFF

Inspect damage

### During Flight

Mixture.....CUT-OFF  
Fuel.....OFF  
Master.....OFF  
Cabin Heat and Air.....OFF  
Airspeed.....140MPH/120KIAS

If fire is not extinguished Increase Speed and/or Sideslip as required to obtain an incombustible mixture.

Proceed with Engine Failure in Flight Actions

## Cabin Fire

### On the Ground

Master Switch.....OFF  
Cabin Vents/Air/Heat.....CLOSED  
Fire Extinguisher.....ACTIVATE  
Cabin Vents/Windows.....OPEN

### During flight

Follow Above Procedure, Once Fire is extinguished:

Electrics/Avionics.....OFF  
Master.....ON  
Avionics/Electrics.....On, one at a time  
Land at the nearest Suitable Airfield

## Electrical Fire

### Unknown Source

Master Switch.....OFF  
All Avionics and Electrics.....OFF  
Circuit Breakers.....PULL

If Smoke Ceases:

Cabin.....VENTILATE  
Master Switch.....ON  
Essential Electrical/Avionics ON, ONE at a time to isolate cause.

### Known Source

Faulty Equipment.....OFF  
Cabin.....Ventilate  
Reassess continued flight functionality without faulty equipment.

## Spin Recovery

Ailerons.....NEUTRAL  
Throttle.....IDLE

Confirm direction:

RUDDER.....FULL OPPOSITE  
Elevator.....FORWARD TO BREAK STALL

When Spinning Stops:

Rudder.....NEUTRALISE  
Pitch.....EASE OUT OF DIVE

## Main Fuel Pump Failure

### After Takeoff

Fuel Pump.....HI  
Hold Fuel Pump in High Position until reaching a safe altitude and power can be reduced to cruise.  
Fuel Pump.....ON

### During Cruise

Mixture.....RICH  
Fuel Pump.....HI  
Select HI to restore fuel flow, once fuel flow is restored  
Fuel Pump.....ON

HI may be needed momentarily for situations with excessive fuel demand.

C210N 1979

## Electrical Failure/Overload

Load.....REDUCE TO MINIMUM  
Alternator .....OFF  
Alternator CB.....TRIP&RESET  
Alternator.....ON  
Load/Power.....OK?

If Not:

Master .....OFF  
Master .....ON

IF LOAD still not does not return to normal:

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/avionics).

## Engine Roughness

Magnetos.....CHECK  
Mixture.....ADJUST  
Temperatures/Pressures.....CHECK  
If roughness continues, plan to land at nearest suitable airfield.

## Ditching

Follow forced landing procedure with the following differences:

Heavy Objects from baggage....JETTISON  
Gear.....UP  
Flaps .....30

With Power:

Approach.....300ft/min ROD, 75KIAS  
Land-High Winds.....INTO WIND  
-Light winds. PARALLEL TO SWELL

If no power approach at 85KIAS flap up, or 80KIAS flap 10.

Cabin Doors.....UNLATCH  
Face.....CUSHION FOR IMPACT  
Aircraft.....EVACUATE

## Inadvertent Icing Encounter

Pitot heat.....ON  
Icing conditions.....VACATE  
turn back or change level to avoid icing.

Refer to POH Emergencies for full procedure



# CESSNA NORMAL CHECKLIST

## Pre Start

Tach/Hobbs/Time.....RECORDED  
Passenger Briefing.....COMPLETE  
Preflight Inspection.....COMPLETE  
Seats / Seatbelts.....ADJUST, LOCK  
Brakes.....SET/HOLD  
Cowl Flaps.....OPEN  
Avionics.....OFF  
Electrical Equipment.....OFF  
Landing Gear.....DOWN  
Fuel Selector Valve.....FULLER TANK  
Mixture.....RICH  
Propeller.....HIGH RPM  
Rotating Beacon.....ON  
-----MASTER ON, READY TO START-----

Landing Gear Horn.....PRESS TO TEST  
Circuit Breakers.....CHECK IN  
Prime.....50-60lbs/AS REQ'D  
Throttle.....½ CENTIMETER  
Prop Area.....CLEAR

## After Start

Oil Pressure.....GREEN  
Mixture.....SET FOR TAXI  
Engine Instruments.....CHECK  
Taxi, Nav. Lights.....AS REQUIRED  
Flaps.....RETRACTED  
Transponder.....STANDBY

## Taxi

Brakes.....RELEASE, CHECK  
Alternate Tank.....CHECKED  
Flight Instruments.....TEST AND CHECK  
Nav instruments.....TEST

## Pre-Run Up

Parking Brake.....SET  
Cabin Doors/Windows.....CLOSED/LOCKED  
Cowls.....OPEN  
Fuel Selector.....FULLER TANK  
Mixture.....SET  
Engine Instruments.....GREEN

# NORMAL CHECKLIST

## Pre Takeoff

Flight Controls.....FREE AND CORRECT  
Trims.....SET FOR TAKEOFF  
Mixture.....CHECKED, SET FOR TAKEOFF  
Power.....1700RPM CHECKED  
Engine Instruments...CHECKED AT 1700rpm  
Magnetos.....CHECKED  
Propeller Governor.....CYCLED  
Ammeter.....CHECKED UNDER LOAD  
Suction Gauge.....CHECKED  
DI.....SET TO COMPASS  
Throttle friction lock.....SET  
Idle.....CHECKED  
Magnetos.....BOTH  
Propeller Pitch.....FULL FINE  
Fuel.....CORRECT TANK, QTY CHECKED  
Flaps.....SET FOR TAKEOFF  
Radios.....SET FOR DEPARTURE  
Navigation / GPS.....SET FOR DEPARTURE  
Flight Instruments.....CHECKED AND SET  
Seats and Seatbelts.....SECURE  
Electrics.....CB's CHECKED  
Emergency & Dep. Brief.....COMPLETED  
Takeoff Power Setting/Fuel Flow.....NOTED  
Park Brake.....RELEASED

## Line Up

(REmember What To Do Last)

Runway Area.....CLEAR  
Engine Parameters.....GREEN  
Wind.....CHECK  
Transponder.....SET TO ALTITUDE  
DI.....ALIGNED WITH COMPASS, RWY  
Landing light, strobes.....ON

## After Takeoff (above 1000' AGL)

Brakes.....CHECK  
Undercarriage.....UP, ORANGE LIGHT  
Power/Pitch.....SET  
Mixture.....ADJUST  
Fuel.....CHECKED  
Flaps.....UP  
Engine Parameters.....GREEN  
Lights.....AS REQUIRED

C210L 1973

# NORMAL CHECKLIST

## Cruise

Power/Prop.....SET  
Elevator/Rudder trim.....ADJUST  
Mixture.....LEAN FOR ALTITUDE  
Cowl Flaps.....CLOSED/AS REQ'D

## Descent

Fuel .....CORRECT TANK, QTY CHECKED  
Radios.....SET  
Engine Instruments.....CHECKED  
DI.....ALIGNED  
Approach Briefing.....COMPLETE  
Altimeter.....SET  
Mixture.....SET  
Cowl Flaps.....CLOSED  
Lights.....ON/AS REQ'D

## Downwind

Seats / Seatbelts.....CHECK SECURE  
Fuel.....FULLER TANK  
Brakes.....CHECK  
Landing Gear.....DOWN, GREEN LIGHT  
Mixture.....SET

## Final

Cowl Flaps.....OPEN  
Mixture.....SET FOR GO ROUND  
Landing Gear...DOWN, ONE GREEN LIGHT  
Propeller Pitch.....FULL FINE

## After Landing

Cowl Flaps.....OPEN  
Wing Flaps.....RETRACT  
Land, Strobe lights.....OFF  
Transponder.....STANDBY

## Shutdown and Securing

Power.....IDLE  
Avionics and Electrics.....OFF  
Mixture.....IDLE CUTOFF  
Magnetos.....OFF  
Master.....OFF  
Control Lock.....INSTALLED  
Tach/Hobbs/Time.....RECORDED

C210L 1973

# REFERENCE INFORMATION

## Speeds

### NORMAL OPERATION

Unless otherwise stated the following speeds are for MAUW, Sea Level, ISA conditions.

$V_R$  (nm1).....70-80 mph  
 $V_{T/O}$  50ft.....82mph  
 $V_X$  – Best Angle of Climb ..... $V_{X_{sl}}$  85 mph  
..... $V_{X_{10,000ft}}$  90 mph  
 $V_Y$  – Best Rate of Climb..... $V_{Y_{sl}}$  109 mph  
..... $V_{Y_{10,000ft}}$  102 mph  
Normal approach (Flap 30).....85-95mph  
 $V_{ref}$ .....82 mph  
 $V_A$  – Maneuvering Speed.....115-135 mph

### PLACARD/ASI LIMITATIONS

$V_{NO}$  – Top of Green Arc .....190 mph  
 $V_{NE}$  – Red Line (Never Exceed).....225 mph  
 $V_S$  – Stall Clean .....75 mph  
 $V_{SO}$  – Stall landing configuration.....65 mph  
 $V_{FE}$  – Max. Flap Extn 0-30°.....120 mph  
 $V_{FE}$  – Max. Flap Extn 0-10 °.....160 mph  
 $V_{LE}$  – Max. Gear Extension.....160 mph  
 $V_{LR}$  – Min. Gear and Flap Retraction...90 mph

### EMERGENCY OPERATION

Best glide Speed.....85-95 KIAS  
Precautionary .....90-110 mph  
Field Inspection.....10° flap, 100 mph  
Approach (flaps full).....85-95 mph  
Engine failure after takeoff.....100 mph  
Engine Failure in flight flap up.....100 mph  
Engine Failure in flight flap down.....90 mph

## Operating performance

Planning.....65lt/hr  
Plan Cruise speed.....145KTAS

## Other Information

### Transponder Codes:

Unlawful Interference.....7500  
Loss of Communication .....7600  
Emergency .....7700  
Unassigned.....2000

### Radio Frequencies

Emergency Frequencies.....121.5/243  
All Africa TIBA.....126.9  
Uncontrolled/Unmanned: .....124.8  
Training Areas:.....124.4

# EMERGENCY PROCEDURES

## Engine Failure

### TAKEOFF

NOTE: Bold Items are immediate recall items, other times may be followed up by the use of the AFM checklist.

Throttle.....IDLE  
Brakes.....APPLY  
Flaps.....UP  
Mixture .....CUT-OFF  
Ignition.....OFF  
Master switch.....OFF

### AFTER TAKEOFF

Airspeed.....100 MPH/85KIAS  
Mixture .....CUT-OFF  
Fuel Selector Valve.....OFF  
Ignition.....OFF  
Gear .....AS REQUIRED  
Flaps .....AS REQUIRED  
Master switch.....OFF

### DURING FLIGHT

#### IMMEDIATE ACTIONS

Airspeed .....100MPH/85KIAS(Flaps UP)  
.....90MPH/80KIAS (Flaps DOWN)  
Field.....SELECT  
Approach.....PLAN

#### FAULT FINDIND/RESTART

Fuel Quantity .....Check  
Fuel Selector Valve..... ON FULLER TANK  
Mixture.....RICH  
Fuel Pump.....ON 3-5 Seconds  
Ignition.....BOTH  
(or START if not windmilling)

Throttle.....Advance

If no start obtained proceed with Forced Landing Procedure

#### COMMUNICATE

Mayday.....Transmit Active or 121.5  
Transponder.....7700  
Passengers.....BRIEF

#### SECURE

Mixture .....CUTOFF  
Fuel Selector.....OFF  
Ignition.....OFF

#### FINAL

Gear.....As Required  
Flaps.....As Required  
Master switch.....Off  
Doors .....UNLATCH  
Touchdown.....TAIL LOW

## Engine Fire

### During Start

Starter.....CRANK

To draw away flames, If Engine Starts:

Power.....1700rpm

For a few minutes until flames appear to be extinguished, or if engine does not start:

Mixture .....CUTOFF  
Ignition.....OFF  
Master .....OFF

Inspect damage

### During Flight

Mixture .....CUTOFF  
Fuel .....OFF  
Master .....OFF  
Cabin Heat and Air.....OFF  
Airspeed.....140MPH/120KIAS

If fire is not extinguished Increase Speed and/or Sideslip as required to obtain an incombustible mixture. Proceed with Engine Failure in Flight Actions

## Cabin Fire

### On the Ground

Master Switch.....OFF  
Cabin Vents/Air/Heat.....CLOSED  
Fire Extinguisher.....ACTIVATE  
Cabin Vents/Windows.....OPEN

### During Flight

Follow Above Procedure, Once Fire is extinguished:

Electrics/Avionics.....OFF  
Master .....ON  
Avionics/Electrics.....On, one at a time

Land at the nearest Suitable Airfield

C210L 1973

## Electrical Fire

### Unknown Source

Master Switch.....OFF  
All Avionics and Electrics.....OFF  
Circuit Breakers.....PULL

If Smoke Ceases:

Cabin.....VENTILATE  
Master Switch.....ON  
Essential Electrical/Avionics ON, ONE at a time to isolate cause.

### Known Source

Faulty Equipment.....OFF  
Cabin.....Ventilate  
Reassess continued flight functionality without faulty equipment.

## Spin Recovery

Ailerons.....NEUTRAL  
Throttle.....IDLE

Confirm direction

RUDDER.....FULL OPPOSITE  
Elevator.....FORWARD TO BREAK STALL  
Rudder.....Neutralise when spinning stops  
Pitch.....EASE OUT OF DIVE

## Main Fuel Pump Failure

### After Takeoff

Fuel Pump.....HI  
Hold Fuel Pump in High Position until reaching a safe altitude and power can be reduced to cruise.  
Fuel Pump.....ON

### During Cruise

Mixture.....RICH  
Fuel Pump.....HI  
Select HI to restore fuel flow, once fuel flow is restored  
Fuel Pump.....ON  
HI may be needed momentarily for situations with excessive fuel demand.

## Electrical Failure/Overload

Load.....VERIFY  
.....REDUCE TO MINIMUM  
Alternator.....OFF  
Alternator CB.....TRIP&RESET  
Alternator.....ON  
Load/Power.....OK?  
If Not:  
Master.....OFF  
Master.....ON

IF LOAD still not does not return to normal:  
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/avionics).

## Engine Roughness

Magnetos.....CHECK  
Mixture.....ADJUST  
Temperatures/Pressures.....CHECK  
If roughness continues, plan to land at nearest suitable airfield.

C210L 1973

## NORMAL CHECKLIST

### Pre Start

Tach/Hobbs/Time.....RECORDED  
Passenger Briefing.....COMPLETE  
Preflight Inspection.....COMPLETE  
Seats / Seatbelts.....ADJUST, LOCK  
Brakes.....SET/HOLD  
Cowl Flaps.....OPEN  
Avionics.....OFF  
Electrical Equipment.....OFF  
Landing Gear .....DOWN  
Fuel Selector Valve.....FULLER TANK  
Mixture.....RICH  
Propeller.....HIGH RPM  
Rotating Beacon.....ON  
-----MASTER ON, READY TO START-----

Landing Gear Horn.....PRESS TO TEST  
Circuit Breakers.....CHECK IN  
Prime.....50-60lbs/AS REQ'D  
Throttle.....1/2 CENTIMETER  
Prop Area.....CLEAR

### After Start

Oil Pressure.....GREEN  
Mixture.....SET FOR TAXI  
Engine Instruments.....CHECK  
Taxi, Nav. Lights.....AS REQUIRED  
Flaps.....RETRACTED  
Transponder.....STANDBY

### Taxi

Brakes.....RELEASE, CHECK  
Alternate Tank.....CHECKED  
Flight Instruments.....TEST AND CHECK  
Nav instruments .....TEST

### Pre-Run Up

Parking Brake.....SET  
Cabin Doors/Windows .....CLOSED/LOCKED  
Cowls.....OPEN  
Fuel Selector.....FULLER TANK  
Mixture .....SET  
Engine Instruments.....GREEN

C210L 1974

## NORMAL CHECKLIST

### Pre Takeoff

Flight Controls.....FREE AND CORRECT  
Trims .....SET FOR TAKEOFF  
Mixture.....CHECKED, SET FOR TAKEOFF  
Power.....1700RPM CHECKED  
Engine Instruments...CHECKED AT 1700rpm  
Magnetos.....CHECKED  
Propeller Governor .....CYCLED  
Ammeter.....CHECKED UNDER LOAD  
Suction Gauge.....CHECKED  
DI .....SET TO COMPASS  
Throttle friction lock.....SET  
Idle.....CHECKED  
Magnetos .....BOTH  
Propeller Pitch .....FULL FINE  
Fuel.....CORRECT TANK, QTY CHECKED  
Flaps.....SET FOR TAKEOFF  
Radios.....SET FOR DEPARTURE  
Navigation / GPS.....SET FOR DEPARTURE  
Flight Instruments.....CHECKED AND SET  
Seats and Seatbelts.....SECURE  
Electrics.....CB's CHECKED  
Emergency & Dep. brief.....COMPLETED  
Takeoff Power Setting/Fuel Flow.....NOTED  
Park Brake.....RELEASED

### Line Up

(REmember What To Do Last)

Runway Area.....CLEAR  
Engine Parameters.....GREEN  
Wind.....CHECK  
Transponder.....SET TO ALTITUDE  
DI.....ALIGNED WITH COMPASS, RWY  
Landing light, strobes.....ON

### After Takeoff (above 1000' AGL)

Brakes.....CHECK  
Undercarriage.....UP, ORANGE LIGHT  
Power/Pitch.....SET  
Mixture.....ADJUST  
Fuel.....CHECKED  
Flaps.....UP  
Engine Parameters.....GREEN  
Lights.....AS REQUIRED

## NORMAL CHECKLIST

### Cruise

Power/Prop.....SET  
Elevator/Rudder trim.....ADJUST  
Mixture.....LEAN FOR ALTITUDE  
Cowl Flaps.....CLOSED/AS REQ'D

### Descent

Fuel .....CORRECT TANK, QTY CHECKED  
Radios.....SET  
Engine Instruments.....CHECKED  
DI.....ALIGNED  
Approach Briefing.....COMPLETE  
Altimeter.....SET  
Mixture.....SET  
Cowl Flaps.....CLOSED  
Lights.....ON/AS REQ'D

### Downwind

Seats / Seatbelts.....CHECK SECURE  
Fuel.....FULLER TANK  
Brakes.....CHECK  
Landing Gear.....DOWN, GREEN LIGHT  
Mixture.....SET

### Final

Cowl Flaps.....OPEN  
Mixture.....SET FOR GO ROUND  
Landing Gear....DOWN, ONE GREEN LIGHT  
Propeller Pitch.....FULL FINE

### After Landing

Cowl Flaps.....OPEN  
Wing Flaps.....RETRACT  
Land, Strobe lights.....OFF  
Transponder.....STANDBY

### Shutdown and Securing

Power.....IDLE  
Avionics and Electrics.....OFF  
Mixture.....IDLE CUTOFF  
Magnetos.....OFF  
Master.....OFF  
Control Lock.....INSTALLED  
Tach/Hobbs/Time.....RECORDED

C210L 1974

## REFERENCE INFORMATION

Note: ASI in mph, POH in KIAS both speeds included where important

### Speeds

#### NORMAL OPERATION

Unless otherwise stated the following speeds are for MAUW, Sea Level, ISA conditions.

$V_R$  (nm1).....65-70KIAS/70-80 mph  
 $V_{T/O 50ft}$ .....72KIAS/83mph  
 $V_X$  – Best Angle of Climb  $V_{X_{sl}}$  75KIAS/87mph  
.....  $V_{X_{10,000ft}}$  80KIAS/92mph  
 $V_Y$  – Best Rate of Climb  $V_{Y_{sl}}$  97KIAS/111 mph  
.....  $V_{Y_{10,000ft}}$  92KIAS/106 mph  
Normal approach (Flap 30).....75-85KIAS  
 $V_{ref}$ .....71 KIAS/82 mph  
 $V_A$  – Maneuvering Speed.....96-119KIAS

#### PLACARD/ASI LIMITATIONS

$V_{NO}$  – Top of Green Arc .....168KIAS  
 $V_{NE}$  – Red Line (Never Exceed).....199KIAS  
 $V_S$  – Stall Clean .....68KIAS/79 mph  
 $V_{SO}$  – Stall landing.....55KIAS/64 mph  
 $V_{FE}$  – Max. Flap Extn 0-30°. 105KIAS/120 mph  
 $V_{LE}$  – Max. Flap Extn 0-10 °140KIAS/160 mph  
 $V_{LR}$  – Min. Gear/Flap Retrtn ...80KIAS/90mph

#### EMERGENCY OPERATION

Best glide Speed.....75-85 KIAS/85-95mph  
Precautionary .....75-85 KIAS  
Field Inspection...10° flap, 85KIAS/100 mph  
Approach (flaps full).....75KIAS/90 mph  
Engine failure after takeoff..85KIAS/100 mph  
Engine Failure flap up.....90KIAS/105 mph  
Engine Failure flap down.....80KIAS/95 mph

### Operating performance

Planning.....65lt/hr  
Plan Cruise speed.....145KTAS

### Other Information

#### Transponder Codes:

Unlawful Interference.....7500  
Loss of Communication .....7600  
Emergency .....7700  
Unassigned.....2000

#### Radio Frequencies

Emergency Frequencies.....121.5/243  
All Africa TIBA.....126.9  
Uncontrolled/Unmanned: .....124.8  
Training Areas.....124.4

# EMERGENCY PROCEDURES

## Engine Failure

### TAKEOFF

NOTE: Bold Items are immediate recall items, other times may be followed up by the use of the AFM checklist.

Throttle.....IDLE  
Brakes.....APPLY  
Flaps.....UP  
Mixture .....CUT-OFF  
Ignition.....OFF  
Master switch.....OFF

### AFTER TAKEOFF

Airspeed.....100 MPH/85KIAS  
Mixture .....CUT-OFF  
Fuel Selector Valve.....OFF  
Ignition.....OFF  
Gear .....AS REQUIRED  
Flaps .....AS REQUIRED  
Master switch.....OFF

### DURING FLIGHT

#### IMMEDIATE ACTIONS

Airspeed .....100MPH/85KIAS(Flaps UP)  
.....90MPH/80KIAS (Flaps DOWN)  
Field.....SELECT  
Approach.....PLAN

#### FAULT FINDIND/RESTART

Fuel Quantity .....Check  
Fuel Selector Valve..... ON FULLER TANK  
Mixture.....RICH  
Fuel Pump.....ON 3-5 Seconds  
Ignition.....BOTH  
(or START if not windmilling)

Throttle.....Advance  
If no start obtained proceed with Forced  
Landing Procedure

#### COMMUNICATE

Mayday.....Transmit Active or 121.5  
Transponder.....7700  
Passengers.....BRIEF

#### SECURE

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Fuel Selector.....OFF  
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Master .....OFF  
Inspect damage

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Fuel .....OFF  
Master .....OFF  
Cabin Heat and Air.....OFF  
Airspeed.....140MPH/120KIAS  
If fire is not extinguished Increase Speed  
and/or Sideslip as required to obtain an  
incombustible mixture. Proceed with  
Engine Failure in Flight Actions

## Cabin Fire

### On the Ground

Master Switch.....OFF  
Cabin Vents/Air/Heat.....CLOSED  
Fire Extinguisher.....ACTIVATE  
Cabin Vents/Windows.....OPEN

### During Flight

Follow Above Procedure, Once Fire is  
extinguished:  
Electrics/Avionics.....OFF  
Master .....ON  
Avionics/Electrics.....On, one at a time  
Land at the nearest Suitable Airfield

C210L 1974

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### Unknown Source

Master Switch.....OFF  
All Avionics and Electrics.....OFF  
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If Smoke Ceases:

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Rudder.....Neutralise when spinning stops  
Pitch.....EASE OUT OF DIVE

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### After Takeoff

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Magnetos.....CHECK  
Mixture.....ADJUST  
Temperatures/Pressures.....CHECK  
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