

Cessna C-152 Checklist

LAKE ELMO



INTERIOR PREFLIGHT

Required Documents.....	On Board
Hobbs/Tach Time.....	Check
Flight Controls.....	Free & Correct
Fuel Shutoff Valve.....	Cycle
Radios and Electrical.....	Off
Ignition Switch.....	Off
Master Switch.....	On
Fuel Quantity.....	Check
Flaps.....	Extend
Aircraft Lights.....	On
Pitot Heat.....	On
Lights/Pitot Heat.....	Check-Then Off
Master Switch.....	Off

EXTERIOR PREFLIGHT

Fuselage/Tail:	
Left Fuselage.....	Check
Antennas.....	Check
ID Plate.....	Check
Left Elevator.....	Check
Rudder.....	Check
Right Elevator.....	Check
Trim Tab.....	Check
Right Fuselage.....	Check
Right Wing:	
Flap.....	Check
Aileron.....	Check
Wingtip/Lights.....	Check
Leading Edge.....	Check
Fresh Air Inlet.....	Check
Main Wheel/Brakes.....	Check
Fuel Sumps.....	Sample All
Fuel Quantity.....	Check
Nose:	
Windshield.....	Check/Clean
Oil.....	4 Qts Min
Fuel Strainer.....	Sample
Cowling.....	Check Secure
Propeller/Spinner.....	Check
Alternator Belt.....	Check
Landing Light.....	Check
Carburetor Air Filter.....	Check
Nose Wheel/Strut.....	Check
Static Port (Left Side).....	Check

EXTERIOR PREFLIGHT (CON'T)

Left Wing:	
Main Wheel/Brakes.....	Check
Fuel Sumps.....	Sample All
Fuel Quantity.....	Check
Fresh Air Inlet.....	Check
Pitot Head.....	Check
Fuel Tank Vent.....	Check
Stall Warning Vent.....	Check
Leading Edge.....	Check
Wingtip/Lights.....	Check
Aileron.....	Check
Flap.....	Check

BEFORE START

Preflight.....	Complete
Passenger Briefing.....	Complete
Belts/Seats.....	Secure
Fuel Shutoff Valve.....	On
Carburetor Heat.....	Off
Radios/Electrical.....	Off
Circuit Breakers.....	Check

ENGINE START

Throttle.....	1/8" Cold
	1/4" Hot
Mixture.....	Rich
Prime.....	3-4 Cold
	1-2 Hot
Brakes.....	Hold
Master Switch.....	On
Aircraft Lights.....	Set
Propeller Area.....	Clear
Starter.....	Engage
Throttle.....	800 -1,000 RPM
Oil Pressure.....	Check Positive

BEFORE TAXI

Radios/Avionics.....	On/Set
Ammeter.....	Check Positive
Flaps.....	Up
Mixture.....	Lean
Transponder.....	Set Code/ALT
Flight Instruments.....	Set
Aircraft Lights.....	Set
Nav Lights.....	On
Brakes.....	Test

RUN UP

Brake.....	Hold
Flight Controls.....	Free & Correct
Circuit Breakers.....	Check
Mixture.....	Rich
Throttle.....	1,700 RPM
Magnetos.....	Check
<i>*Max drop 125 RPM, Max Diff 50 RPM*</i>	
Carburetor Heat.....	Check
Ammeter.....	Check Positive
Oil Pressure.....	Check
Oil Temperature.....	Check
Suction Gauge.....	Check 4.6-5.2" Hg.
Throttle.....	Idle Check
Throttle.....	800-1,000 RPM
Mixture.....	Re-Lean for Taxi
Magnetos.....	Both
Primer.....	In/Locked

BEFORE TAKEOFF

Transponder.....	Set ALT
Trim.....	Set Takeoff
Flaps.....	Set
Mixture.....	Rich
Carburetor Heat.....	Off
Aircraft Lights.....	Set
Flight Instruments.....	Set
Cabin Door/Windows.....	Latched
Takeoff Briefing.....	Complete

NORMAL TAKEOFF

Heading.....	Check Correct Runway
Throttle.....	Full Open
Rotate.....	50 KIAS

CLIMB

Best Angle Vx.....	55 KIAS
Best Rate Vy.....	67 KIAS
Flaps.....	Up

CRUISE

Throttle.....	Set
Mixture.....	Set
Trim.....	Set
Aircraft Lights.....	Set
Pitot Heat.....	Set

DESCENT

Instrument/Avionics.....	Set
Aircraft Lights.....	Set
Pitot Heat.....	Set
Carburetor Heat.....	Set
Throttle.....	Set
Mixture.....	Set
Approach Briefing.....	Complete

BEFORE LANDING

Aircraft Lights.....	Set
Carburetor Heat.....	On
Mixture.....	Rich
Flaps.....	Set
Approach Airspeed.....	55-65 KIAS

AFTER LANDING

Flaps.....	Up
Trim.....	Set Takeoff
Aircraft Lights.....	Set
Pitot Heat.....	Off
Carburetor Heat.....	Off
Mixture.....	Lean

SHUT DOWN

Radios/Avionics.....	Off
Throttle.....	Idle
Magneto.....	Check
Mixture.....	Idle Cut-Off
Magnetos.....	Off
Aircraft Lights.....	Off
All Switches.....	Off
Nav Lights.....	ON
Brakes.....	Released

Important Speeds KIAS

Vs0.....	35 KIAS
Vs1.....	40 KIAS
Vr.....	50 KIAS
Vx.....	55 KIAS
Vy.....	67 KIAS
Vfe.....	85 KIAS
Va (maneuvering).....	93-104 KIAS
Vno.....	111 KIAS
Vne.....	149 KIAS
Normal Approach.....	60-70 KIAS
Best Glide.....	60 KIAS

Cessna C-152 Maneuvers

LAKE ELMO



Normal Takeoff

Before Takeoff Checklist Complete

Flaps	0°
Power	Full
Engine Instruments	Verify Green
Rotate	50 – 55 KIAS
Climb Out	V _x 55 KIAS
	V _y 67 KIAS

Normal Landing

Before Landing Checklist Complete

Midfield Downwind	BCGUMPS
Abeam Runway Threshold:	
Throttle	1500 RPM
Flaps	10°
Airspeed	80 KIAS
Base – Flaps	20°
Airspeed	70 KIAS
Final – Flaps	30°
Airspeed	60 KIAS
Touchdown	Just above stall speed

Short Field Takeoff

Before Takeoff Checklist Complete

Flaps	10°
Runway	Use All Available
Brakes	Hold
Throttle	Full
Engine Instruments	Verify Green
Brakes	Release
Rotate	50 KIAS
Climb Speed	55 KIAS
	(Until clear of obstacles)
Wing Flaps	Retract 60 KIAS
Climb Out	V _y - 67 KIAS

Short Field Landing

Before Landing Checklist Complete

Midfield Downwind	BCGUMPS
Approach (Obstacle)	Steeper
Abeam Runway Threshold:	
Throttle	1500 RPM
Flaps	10°
Airspeed	80 KIAS
Base – Flaps	20°
Airspeed	70 KIAS
Final – Flaps	30°
Airspeed	60 KIAS
Threshold	54 KIAS
Touchdown	Just above stall speed
Braking	Apply Max Foot&Aero

Soft Field Takeoff

Before Takeoff Checklist Complete

Flaps	10°
Yoke	Full Back
Engine Instruments	Verify Green
Throttle	Full
Rotate	Min. Airspeed
Yoke	Slowly release to maintain nose up until liftoff
Ground Effect	Remain in
Accelerate	V _y 67 or End of Runway
At V _y 67	Normal Climb
Clear of Obstacles	Raise Flaps to 0°

Soft Field Landing

Before Landing Checklist Complete

Midfield Downwind	BCGUMPS
Abeam Runway Threshold:	
Throttle	1500 RPM
Flaps	10°
Airspeed	80 KIAS
Base – Flaps	20°
Airspeed	70 KIAS
Final – Flaps	30°
Airspeed	60 KIAS
Touchdown	Just above stall speed
Yoke	Full Back
Wheel Brakes...Use Minimum Required	

Go-Around

Throttle	Full Power
Carburetor Heat	Off
Flight Controls	Start Climbout
Flaps	Retract to 20°
Airspeed	>60 KIAS
Flaps	Retract to 0°
Climbout	At V _y 67

Steep Turns

Clearing Turns	Complete
BCGUMPS	Complete
Throttle	2300 RPM
Airspeed	85 KIAS
Bank	45° Private
	50° Commercial
Roll Out	Original heading
Repeat	Other Direction

Slow Flight

Clearing Turns	Complete
BCGUMPS	Complete
Throttle	1500 RPM
Flaps	Full, when in white arc
Altitude	Maintain as Speed Decreases
Throttle	Add power to maintain Altitude
Pitch	45-50 KIAS
Banks	Shallow
Recover	Full power, remove flaps and carb heat, maintain altitude

Power Off Stall

Clearing Turns	Complete
BCGUMPS	Complete
Throttle	1500 RPM
Flaps	Full, when in white arc
Airspeed	Slow to 60 KIAS
Descent	Initiate 500 FPM to simulate final approach
Throttle	IDLE
Pitch	Induce Stall
Stall Recovery:	
Go-Around Procedure	
Minimize Altitude Loss	

Power On Stall

Clearing Turns	Complete
BCGUMPS	Complete
Throttle	1500 RPM
Airspeed	Slow to 65 KIAS
Throttle	Full Power
Pitch	20° Induce Stall
Stall Recovery:	
Flight Controls.....	Nose Down
Throttle.....	Full

Rectangular Course

Clearing Turns	Complete
BCGUMPS	Complete
Throttle	2000 – 2200 RPM
Airspeed	85 KIAS
Altitude	600 – 1000 ft AGL
Entry	45° to Downwind
Ground track	Adjust for wind drift to maintain a ¼ -½ mi distance

Turns Around a Point

Clearing Turns	Complete
BCGUMPS	Complete
Throttle	2000 – 2200 RPM
Airspeed	85 KIAS
Altitude	600 – 1000 ft AGL
Entry	On Downwind
Ground track	Adjust for wind drift to maintain a ¼ -½ mi radius

S-Turns Along a Road

Clearing Turns	Complete
BCGUMPS	Complete
Throttle	2000 – 2200 RPM
Airspeed	85 KIAS
Altitude	600 – 1000 ft AGL
Entry	On Downwind
Ground track	Adjust for wind drift to maintain a ¼ -½ mi radius

Engine Fire-Start

Starter.....Continue Cranking
 MixtureIdle Cut-Off
 ThrottleOpen
 Fuel Shutoff ValveOff

Engine Failure-Takeoff

AirspeedMaintain Safe Airspeed
 LandStraight Ahead

*If Sufficient altitude has been gained
 attempt to restart:*

AirspeedMaintain Safe Airspeed
 MixtureRich
 Carburetor HeatOn

*If power is not restored, proceed to
POWER OFF LANDING*

Engine Failure-In Flight

Airspeed60 KIAS
 Best Landing Site.....Locate
 MixtureRich
 Fuel Shutoff Valve.....On
 Carburetor HeatOn
 Engine GaugesCheck
 PrimerCheck Locked
 IgnitionCheck Both

*If power is NOT restored proceed to
POWER OFF LANDING:*

Power Off Landing

Airspeed60 KIAS
 Best Landing SiteLocate
 Passengers.....Prepare

If time and altitude permit:

Transponder 7700
 Radios Transmit 121.5
 ELT On

When committed to landing:

Throttle Idle
 Mixture Idle Cut-Off
 Fuel Shutoff Valve..... Off
 Magnetos Off
 Flaps..... Extend (time/altitude permitting)
 Master Switch Off
 Belts/Shoulder Harness Secure
 Door.....Open
 Approach Speed55-60 KIAS

Engine Fire-Flight

MixtureIdle Cut-Off
 Fuel Shutoff Valve.....Off
 Master SwitchOff
 ThrottleIdle
 Fresh Air Vents/Windows.....Open
 Panel Cabin Air/Heat/Defrost.....Closed
 Magneto SwitchOff

*If fire extinguishes, proceed to **POWER
 OFF LANDING***

*If fire does not extinguish, proceed to
EMERGENCY DESCENT*

Electrical Fire

Batt/Alt Master SwitchOff
 Radio Master and All Electrical.....Off
 Fresh Air Vents/Windows.....Open
 Panel Cabin Air/Heat/Defrost.....Closed

*If fire appears out and electrical power is
 necessary:*

Batt/Alt Master Switch On
 Circuit Breakers DO NOT RESET
 Radio/Electrical Equip--ON one at a time

Land As Soon as Practical

Emergency Descent

Throttle Idle
 MixtureRich (unless fire)
 Bank 30° – 45°
 Airspeed.....111 KIAS

Alternator Failure

*Prepare for **ELECTRICAL FIRE***

All Non-Required Equipment.....Off
 12V Charging Socket.....Unplug
 Circuit Breakers.....Check

If no circuit breakers popped...

Alternator Master Switch.....Cycle Off/On

*If circuit breakers popped, reset them only
 if absolutely necessary for safety of flight.*

*If Alternator is not restored, land as soon
 as practical.*

Engine Roughness

Throttle.....2500 RPM
 Carburetor Heat On
 MixtureFull Rich
 Engine Gauges Check
 Magneto SwitchCheck Individually

*If operation is satisfactory on either
 magneto, continue on that magneto at
 reduced power and Full Rich mixture.*

Land as soon as practical.

*If roughness continues, land as soon as
 possible.*

Loss of Oil Pressure Light

Land as Soon as Practical

*Prepare for **POWER OFF LANDING***

Loss of Fuel Pressure

Fuel Shutoff Valve.....On
 Mixture.....Rich

*If pressure does not return, land as soon as
 practical.*

*Prepare for **POWER OFF LANDING.***

High Oil Temperature

Altitude.....Level (stop climb)
 Throttle.....2200 RPM

*If temp does not go down, or continues to
 rise, land as soon as practical.*

*Prepare for **POWER OFF LANDING***

Spin Recovery

Throttle Idle
 Ailerons Neutral
 Rudder Full opposite
 (to the direction of rotation)

Yoke Full forward

Rudder Neutral

(when rotation stops)

YokeRecover from dive

Throttle Do not exceed 149 KIAS

IN AN EMERGENCY

Call 911 FIRST if necessary for safety

Then call Lake Elmo Aero at 651-777-1399