

Cessna 152

Preflight Inspection Cockpit

Aircraft docs	Check
Control wheel lock	Remove
Hobbs/Tach	Check/Record
Ignition	Off
Master Switch	On
Fuel quantity indicators	check
Flaps	down
Master Switch	Off
Fuel shutoff valve	On

Fuselage and Empenage

Rivets	Check
Rudder Gust Lock	Remove
Tail Tie-Down	Disconnect
Control surfaces	free & secure

Right wing

Aileron	free and secure
Flaps	secure
Wing tie-down	disconnect
Main wheel tire	inflated
Brakes	not leaking
Fuel tank sump	sample
Fuel Quantity	check
Fuel Filler cap	Secure

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

Main wheel tire	inflated
Brakes	not leaking
Fuel tank sump	sample
Fuel Quantity	check
Fuel Filler cap	Secure
Wing tie-down	disconnect

preflight

Pitot tube	uncover and check
Stall warning	check
Fuel tank vent opening	check
Wing tie-down	disconnect
Aileron	free and secure
Flaps	secure

Before starting engine

Preflight inspection	complete
Seats, belts	adjust and lock
Fuel shutoff valve	ON
Radios & elect	OFF
Brakes	test and set
Circuit breakers	IN

Starting Engine

Mixture	Rich (IN)
Carb heat	COLD (IN)
Prime	As required; locked
Throttle	Open 1/2 inch
Propeller area	CLEAR
Master Switch	ON
Beacon	ON
Ignition	START
Throttle	Adjust 1000 rpm
Oil Pressure	check normal
Avionics	ON
Transponder	Standby
Flaps	UP

Before Takeoff

Parking brake	SET
Cabin doors	CLOSE & LATCH
Flight controls	free & correct
Instruments (4)	SET
Fuel Shutoff Valve	ON
Mixture	RICH (IN)
Trim	set for TAKEOFF
Throttle	1700 rpm
Magnetos	check
Suction gage	check
Instruments	check
Ammeter	check
Carb heat	ON
Throttle	IDLE -- chk
Radios	SET
Beacon/lights	ON
Throttle friction lock	ADJUST
Brakes	TEST

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Engine failure

TAKEOFF

Throttle	IDLE
Brakes	apply
Flaps	UP
Mixture	IDLE cut-off
Ignition	OFF
Master switch	OFF

AFTER TAKEOFF

Airspeed	60 KIAS
Mixture	Idle Cut-off
Fuel shutoff valve	OFF
Ignition	OFF
Flaps	as required
Master switch	OFF

DURING FLIGHT

Airspeed	60 KIAS
Carb Heat	ON
Primer	IN & Locked
Fuel Shutoff valve	ON
Mixture	RICH
Ignition	BOTH (or START)
Airspeed	60/65 (flaps)
Mixture	cutoff
Fuel shutoff valve	off
Ignition	off
Flaps	as required
Mayday	transmit 121.5
Master switch	off
Doors	unlatch
Touchdown	tail low

Carburetor Icing

Throttle	FULL
Carb Heat	ON (out)
Mixture	Adjust

Engine Roughness

Magnetos	check
Mixture	lean as necessary

Engine Fire during start

Crank	Continue
Power	1700 RPM
Engine	Shut down and inspect

emergency

Engine Fire during flight

Mixture	Idle Cut-off
Fuel shut off valve	OFF
Master Switch	OFF
Cabin head/air	OFF
Airspeed	85 KIAS

Electrical failure

Load meter	verify
Alternator	off
Reduce load to minimum	
Breaker/alt	chk & reset
Alternator	on
If still no power:	
Alternator	off
Reduce load and land	

Electrical overload

Master Switch	OFF
Master Switch	ON
Over-voltage light	OFF
or TERMINATE flight ASAP	

Spin Recovery

Ailerons	NEUTRAL
Throttle	IDLE
Rudder	Full opposite
Control wheel	full forward
Rudder control/wheel	Neutral
Pitch	Level

Cessna 152 normal procedures

Cessna 152 reference

Takeoff

Flaps	UP
Carb heat	COLD (IN)
Transponder	Altitude
Trim	set for TAKEOFF
Throttle	FULL
Tach, oil, airspeed	check
Elevator	Lift at 50 KIAS
Climb	70-80 KIAS

Cruise

Pitch	Set
Throttle	As required
Trim	Set
Mixture	Adjust

Pre-landing checklist

Fuel selector	ON
Mixture	Rich
Carb Heat	ON
Seatbelts	Fastened

Approach

Flight instruments	Ckd & Set
Radios	Checked
ATIS	Checked
Carb Heat	ON
Mixture	Rich

After landing

Flaps	UP
Carb Heat	COLD (IN)
Transponder	Standby
Landing light	OFF

Parking

Avionics	OFF
Electrical	OFF
Throttle	1000 RPM
Mixture	Cut-off
Ignition switch	OFF
Master switch	OFF

Securing the aircraft

Control Lock	Install
Hobbs/Tach	Record
Door/Window	Secure
Tie-downs	Secure

Short field take-off

Take-off checklist	complete
Taxi	max runway
Brakes	set and hold
Flaps	10°
Throttle	FULL
Brakes	release
Climb	54 KIAS
Flaps	retract when clear
Airspeed	67 KIAS

Short field landing

Pre-landing check	complete
Approach	54 KIAS
Flaps	30°
Throttle	maintain glide
Touchdown	power off
Flaps	UP
Elevator	Full up
Braking	Heavy as required

Soft field take-off

Take-off checklist	complete
Flaps	10°
Taxi	keep rolling
Climb	54 KIAS
Flaps	retract
Airspeed	67 KIAS

Soft field landing

Pre-landing check	complete
Throttle	1500 RPM
Flaps	10°
Airspeed	60 KIAS
Touchdown	main first, softly
Landing roll	nose wheel up
Elevator	UP
Braking	as required

Go-around

Throttle	FULL
Carb Heat	Cold (IN)
Flaps	UP
Airspeed	67 KIAS

Light Signals:

Signal	On Ground	In Flight
Steady Green	Takeoff	Land
Flashing Green	Taxi	Return to land
Steady Red	Stop	Give way
Flashing Red	Clear runway	Do not land
Flashing white	Return to ramp	--
Red/Green alternating	WARNING – USE CAUTION	

Comm freq

Traffic alt

Alpha
Bravo
Charlie
Delta
Echo
Foxtrot
Golf
Hotel
India
Juliet
Kilo
Lima
Mike
November
Oscar
Papa
Quebec
Romeo
Sierra
Tango
Uniform
Victor
Whiskey
Xray
Yankee
Zulu

V-Speeds (KIAS)

Rotate	V _r	50
Max angle	V _x	55
Climb rate	V _y	67
Maneuver	V _a	104
Flaps	V _{fe}	85
Normal max	V _{no}	111
Never exceed	V _{ne}	149
Climb		70-80
Stall (land)	V _{so}	35
Final Approach	Flaps	55-65
	No flaps	60-70
Max Glide		60

