

Cessna 152

Speeds for Safe Operation

Max Demonstrated Crosswind Component		12 kts
Rotate (Vr)		50 kts
Best Angle (Vx)		55 kts
Best Rate (Vy)		67 kts
Cruise Climb		70 - 80 kts
Maximum Flap Extension (Vf and Vfe)		85 kts
Maneuvering Speed (Va)	1670 lbs.	104 kts
	1500 lbs.	98 kts
	1350 lbs.	93 kts
Max Structural Cruising (Vno)		111 kts
Never Exceed (Vne)		149 kts
Landing Approach	Flaps Up	60 - 70 kts
	Flaps Down	55 - 65 kts
	Short Field	54 kts
Balked Landing Climb	20 deg Flaps	55 kts
Best Glide		60 kts

(For Reference Only - Consult the POH)

	<u>Cabin</u>		Fuel Vent	CLEAR
Control Lock		REMOVE	Stall Warning Opening	CLEAR
Hobbs and Tach Meters		RECORDED	Pitot Tube	CLEAR
Documents		CHECK	Fuel Level	CHECK
Avionics Switch		OFF		<u>Nose</u>
Master Switch		ON	Static Source	CLEAR
Fuel Gauges		CHECK	Propeller and Spinner	CONDITION
Wing Flaps		DOWN	Alternator Belt	TIGHT
Lights		CHECK	Air Filter	CLEAR
Master Switch		OFF	Nose Wheel and Strut	CONDITION
Magnetos		OFF	Engine Oil	CHECK
Throttle		IDLE	Fuel Strainer	CHECK
Mixture		IDLE - CUTOFF	Fuel Selector	DRAIN
Fuel Selector Valve		ON		<u>Right Wing</u>
	<u>Left Wing</u>		Fuel Level	CHECK
Fuel Drain		CHECK	Tie Down	REMOVE
Strut, Tire, Brake		CHECK	Aileron	CHECK
Wing Flap		CHECK	Wing Flap	CHECK
Aileron		CHECK	Strut, Tire, Brake	CHECK
Tie Down		REMOVE	Fuel Drain	CHECK

Empennage

Elevator and Rudder	CHECK
Tie Down	REMOVE
Baggage Door	SECURE
Antennas	CHECK

Engine Start

Master Switch	START
Oil Pressure	CHECK
Engine Warm Up	1000 RPM
Engine Instruments	CHECK

Before Starting

Seat and Seat Belts	SET AND ON
Passenger Briefing	COMPLETE
Parking Brake	SET
Avionics Switch	OFF
Circuit Breakers	CHECK
Lights	OFF
Fuel Selector Valve	BOTH
Mixture	RICH
Throttle	1/4" OPEN
Rotating Beacon	ON
Prime	AS REQUIRED
Master Switch	ON
Propeller Area	CLEAR

Avionics Switch	ON
Radios and Navs	SET
Transponder	1200, TEST, STBY

Before Taxi / Taxi

Mixture	LEAN FOR TAXI
Wing Flaps	UP
ATIS and Clearance	COPIED
Lights	AS REQUIRED
Brakes	CHECK
Flight Instruments	CHECK

Before TakeoffBefore Takeoff Continued

Brakes		SET	Heading Indicator		CHECK
Radios		SET	Mixture		ADJUST
Flight Instruments		CHECK	Transponder		ALT
Engine Instruments		CHECK	Wing Flaps		AS REQUIRED
Flight Controls		FREE	Trim		SET
Fuel Selector Valve		BOTH	Time Off		NOTED
Mixture		FULL RICH		<u>Takeoff</u>	
Throttle		1700 RPM	Throttle		FULL
Engine Instruments		CHECK	Engine Instruments		CHECK
Magnetos	max 125 rpm drop	CHECK	Airspeed Indicator		CHECK
Carburetor Heat		CHECK	Rotate		50 kts
Suction and Ammeter		CHECK	After Liftoff		TAP BRAKES
Throttle		IDLE	Climb Speed		Vy or Vx
Carburetor Heat	engine won't die	CHECK	Safe Altitude / Airspeed	60 kts.	FLAPS UP
Engine Instruments		CHECK		<u>Climb</u>	
Throttle		1000 RPM	Throttle		FULL
Seat Belts		FASTENED	Airspeed		80 - 85 kts
Doors and Windows		SECURE	Engine Instruments		CHECK
Pre-takeoff Briefing		COMPLETE	Mixture	above 3000'	LEAN
Lights		AS REQUIRED	Temperature		MONITOR

CruiseGo Around

Power	SET	Throttle	FULL
Trim	ADJUST	Carb Heat	OFF
Mixture	LEAN	Flaps	20 deg
Heading Indicator	CHECK	Airspeed	55 kts
Lights	AS REQUIRED	Flaps	slowly RETRACT

DescentAfter Landing

Seats and Seat Belts	CHECK	Lights	AS REQUIRED
Altimeter	SET	Carb Heat	OFF
Power	AS REQUIRED	Mixture	LEAN FOR TAXI
Mixture	ADJUST	Transponder	STBY, 1200
Carb Heat	AS REQUIRED	Wing Flaps	UP
		Time On	NOTED

Before LandingParking and Shutdown

Seat Belts	FASTENED		
Fuel Selector Valve	BOTH	Avionics Switch	OFF
Mixture	RICH	Electrical Equipment	OFF
Lights	AS REQUIRED	Throttle	1000 RPM
Airspeed and Power	SET FOR APPROACH	Magneto Ground Check	COMPLETE
Carb Heat	ON	Mixture	IDLE - CUTOFF
Wing Flaps	SET AS REQUIRED	Magnetos	OFF
		Master Switch	OFF
		Rotating Beacon	OFF

Engine Failure in Flight

Airspeed		60 kts
Fuel Selector		ON
Mixture		RICH
Carb Heat		ON
Magnetos		BOTH
Primer		IN & LOCKED
	No Restart	
Fuel Selector		OFF
Mixture		IDLE-CUTOFF
Magnetos		OFF
Wing Flaps		AS REQUIRED
Master Switch		OFF
Seat Belts		SECURE
Doors		UNLATCH
	<u>Precautionary Landing</u>	
Airspeed / Flaps		60 kts / 20 deg
Selected Field		FLY OVER
All Electrical Switches		OFF
Airspeed / Flaps	On Final	55 kts / 30 deg
Master Switch		OFF
Doors		UNLATCH
Magnetos		OFF

Engine Fire - Ground

Cranking		CONTINUE
	Engine Starts	
Power		1700 RPM
Engine		SHUTDOWN
	No Start	
Cranking		CONTINUE
Throttle		FULL OPEN
Mixture		IDLE-CUTOFF
Fuel Selector		OFF
Master Switch		OFF
Magnetos		OFF
Fire Extinguisher		USE

Engine Fire - Flight

Fuel Selector		OFF
Mixture		IDLE-CUTOFF
Cabin Heat and Air		OFF
Airspeed	altitude permitting	85+ kts
Forced Landing		EXECUTE

Electrical FireIcing

Master Switch		OFF	Pitot Heat	ON
Avionics Switch		OFF	Defroster	ON
All Electric Equip.		OFF	Carb Heat	AS REQUIRED
Cabin Air / Heat Control		CLOSE	Throttle	INCREASE
Fire Extinguisher		USE	Altitude / Course	seek warmer air ADJUST
Cabin		VENTILATE	Land	ASAP
	When Fire is Out		Forward Slip (visibility)	AS REQUIRED
Master Switch		ON	Wing Flaps	UP
Circuit Breakers		CHECK	Airspeed	landing 65 - 75 kts
Radios		OFF		<u>Excessive Ammeter Charge</u>
Avionics Switch		ON	Alternator Switch	OFF
Electric Equip. (one at a time)		ON	Alternator Circuit Breaker	PULL
	<u>Cabin Fire</u>		Nonessential Elect. Equip.	OFF
Master Switch		OFF	Land	ASAP
Cabin Air / Heat Control		CLOSE		<u>Alternator Low Voltage (Discharge)</u>
Fire Extinguisher		USE	Avionics Switch	OFF
Cabin		VENTILATE	Alternator Circuit Breaker	CHECK IN
Land		ASAP	Master Switch	OFF then ON
	<u>Wing Fire</u>		Low Voltage Light	CHECK OFF
Navigation Lights		OFF	Avionics Switch	ON
Strobe Lights		OFF		If Low Volt Light is On
Pitot Heat		OFF	Alternator Switch	OFF
Sideslip		EXECUTE	Nonessential Elect. Equip.	OFF
Land	no flaps	ASAP	Land	ASAP