

Preflight Cessna 152

1. **Fuel Level** **VISUAL CHECK**
2. Hobbs Book **CHECK #'s**
3. Paperwork **ARROW-AV1ATE**
4. Seat Height **SET UP**
5. Control Lock **REMOVE**
6. Fuel Shutoff **FUEL ON**
7. Trim **SET "TAKEOFF"**
8. Instruments **0's, INOP FLAGS**
9. Master **ON**
10. Fuel Qty **CHECK**
11. Turn Coordinator **LISTEN**
12. Flaps **DOWN**
13. Beacon/Nav/Lights **CHECK LIGHTS**
14. Master **OFF**
15. Preflight **WALK AROUND**
 - Fuel Level **VISUAL CHECK**
 - Fuel Sumps **DRAIN 3 SUMPS**
 - Oil **4-6 Qts**
 - Static Port **CHECK**
 - 360 Walk **TIE-DOWNS**

Passenger Briefing Checklist

1. Seat Belts **EXPLAIN and ON**
2. Door / Exiting Plane **EXPLAIN**
3. First Aid/Fire Ext **LOCATE**
4. Scanning for Traffic **ASSIST**
5. Exchange Controls **EXPLAIN**
6. Seat Rail Locks **CHECK**

Engine Start Checklist

1. Brakes **SET**
2. Electrical **ALL OFF**
3. Circuit Breakers **ALL IN**
4. Mixture **FULL RICH**
5. Carburetor Heat **OFF**
6. Prime **AS REQ'D (2-4)**
7. Primer **LOCKED**
8. Master Switch **ON**
9. Beacon **ON**
10. Throttle **1/4 Inch Open**
11. Area *******"CLEAR"*******
12. Magnetos/Starter **CRANK ENGINE**
13. Throttle **800-1000 RPM**
14. Mixture **LEAN for TAXI**
15. Oil Pressure **30 Sec in GREEN**
16. Flaps **UP**
17. Avionics Master **ON**
18. Instruments **DG to Compass**
19. Transponder **1200 "STANDBY"**
20. Radios **TUNE, TEST**
21. ATIS **SET Altimeter**

Contact GROUND for Taxi to Runway

While Taxi Checklist

- | | |
|--------------------|------------------------|
| Brakes | TEST both sides |
| Verify Instruments | 6 PACK CHECK |
| | Compass/TC/DG |
| | INTO WIND |
| Position at Run-up | |

Run-Up Checklist

1. Brakes **SET**
2. Doors/Windows **CLOSED**
3. Belts/Harness **SECURED**
4. Controls **CHECK**
5. Trim **SET TAKEOFF**
6. Instruments **SET AI / DG**
7. Primer **LOCKED**
8. Blast Area **CLEAR BEHIND**
9. Throttle **1700 RPM**
10. Engine Instruments **ALL GREEN**
11. Mixture **LEAN**
12. Magnetos **125 Max, 50 Diff**
13. Carburetor Heat **CHECK ON/OFF**
14. Ammeter Check **+CHARGING**
15. Vac/OilPress/Temp **ALL GREEN**
16. Throttle **800-1000 RPM**

Ready for Takeoff Checklist

- | | |
|--------|-----------------------------|
| Lights | STROBE/ NAV/ LANDING |
| Camera | TRANSPONDER "Alt" |
| Action | Note TAKEOFF TIME |
| Review | Vspeeds |
| Review | Take Off Engine Loss |
| Review | WINDS |

Contact Ground or Tower

Airspeeds		C152
V1	abort takeoff	35 KIAS(50% Rwy)
Vs0	stall w/Flaps	35 KIAS
Vs1	stall clean	40 KIAS
Vr	rotate	50 KIAS
Takeoff Climb		65-75 KIAS
Vy	best rate	65 KIAS
Vx	best angle	55 KIAS
Vbest glide		60 KIAS Glide
Vfe	flaps extend	85 KIAS full flaps
Va	maneuvering	104 KIAS- 1670 lbs
Vno	max cruise	111 KIAS
Vne	never exceed	149 KIAS
Landing: 1500RPM 70 base/final - 60 over #'s		

Takeoff Checklist (Normal Takeoff)

- | | |
|-----------|------------------------|
| Trim | SET TAKEOFF |
| Flaps | SET 0-10 Degrees |
| Vrotate | 50 KIAS Vrotate |
| Climb Out | 65-75 KIAS |

Short Field Takeoff

- | | |
|---------|------------------------|
| Flaps | 10 DEGS |
| Vrotate | 50 KIAS Vrotate |
| Vx | 55 KIAS |

Cruise/Climb Checklist

1. Climb Airspeed 70-80 KIAS
2. Landing Light OFF
3. Power As RQD
4. Mixture Lean As RQD

Descent Checklist

1. Power Reduce as RQD
2. Mixture Enrichen as RQD
3. Carb Heat ON as RQD

Pre Landing Checklist

- | | |
|--------------------------|-------------------------|
| C - Carb Heat | ON |
| G - Gas | FUEL ON |
| U - Undercarriage | GEAR DOWN |
| M - Mixture | ENRICHEN if |
| S - Switches | Landing Light ON |
| S - Safety | Seat Belts ON |

Landing

- | | |
|--|--------------------------------|
| Downwind | 80 KIAS @ 1900rpm |
| Abeam #'s | 70 KIAS @ 1500rpm (10°) |
| Over the #'s | 55-65 KIAS FULL FLAPS |
| Over the #'s | 60-70 KIAS NO FLAPS |
| Short Field | 54 KIAS over numbers |
| ** Gusty or Cross Winds No Flaps, SLIP | |

Go Around (ABORTED LANDING)

- | | |
|----------|---------------------------|
| Throttle | FULL THROTTLE |
| Flaps | UP, to 20 Degrees |
| Airspeed | Establish 50+ KIAS |
| Flaps | Bring up SLOWLY |

Clear Runway Checklist

- | | |
|-------------------------|----------------------|
| Trim | SET "TAKEOFF" |
| Flaps | UP |
| Carb Heat | OFF |
| Landing Light | OFF |
| Transponder | 1200 "STDBY" |
| <i>IFR: Instruments</i> | CHECK 6 pack |

Shutdown Checklist

- | | |
|--------------|---------------------|
| Electrical | AVIONICS OFF |
| Throttle | IDLE |
| Mixture | IDLE CUTOFF |
| Magnetos | OFF |
| Master | OFF |
| Control Lock | SECURE |
| Tiedowns | FASTEN |

CLOSE FLIGHT PLAN

Emergency Procedures

Engine Failure C152

Memory Items ABCDE

A Airspeed	60 KIAS
B Best Place to Land	(Check Wind Dir)
C Checklist	TRY RESTART
D Declare Emergency	121.5, MAYDAY
	7700 IDENT
E Execute Landing	Doors Open, Seat Belts

ENGINE RESTART Procedures

Fuel Selector	ON
Mixture	FULL RICH
Throttle	FULL THROTTLE
Carburetor Heat	ON
Magnetos	BOTH
Primer	LOCKED

Before TOUCHDOWN (forced landing)

Doors	OPEN
Belts	SECURE
Cushions	PROTECT HEAD
Mixture	IDLE CUTOFF
Fuel Selector	OFF
Magnetos	OFF
Flaps	FULL
Master	OFF
Landing	SOFT FIELD

Engine Fire in Flight

Mixture	IDLE CUTOFF
Fuel Selector	OFF
Cabin Air/Heat	CLOSE VENTS
Flaps	FULL FLAPS
Master	OFF
Airspeed	TOP of WHITE 85 KIAS
Bank Angle	45 DEGREES

Proceed with Engine Failure Above

Electrical Fire in Flight

Master	OFF
Avionics	OFF
All Switches	OFF
Vents/Cabin Air	CLOSED
Fire Extinguisher	ACTIVATE
Fire	EXTINGUISHED
Vents/Cabin Air	VENT CABIN

If electrical power is necessary, then:

Master	ON
Circuit Breakers	CHK, do not reset
Radios	OFF
Avionics Master	ON
Radios/Switches	ONE AT A TIME

Wing Fire

Navigation Lights	OFF
Pitot Heat	OFF
Strobe Lights	OFF
Side Slip	PERFORM

Excessive Rate of Charge

Alternator	OFF
Alternator Breaker	PULL OFF
Nonessential Equipment	OFF
Flight	Terminate ASAP

Low Voltage Light On

Avionics Master	OFF
Alternator Circuit Breaker	CHECK IN
Master (both sides)	OFF
Master (both sides)	ON
Low Voltage Light	CHECK
Avionics Master	ON
If low-voltage light illuminates again, then	
Alternator	OFF
Nonessential Radios/Equip	OFF
Flight	Terminate ASAP

Lost - 'CCCCC'

Climb	(Better radio range)
Communicate	(FSS, 121.5)
Confess	(Ask for help)
Comply	(Follow advice)
Conserve	(Fuel-slow down)

SPIN Recovery

Throttle	IDLE
Ailerons	NEUTRAL
Rudder	OPPOSITE Rotation
Elevator	FWD BRISKLY
Rotation	STOPPED
Controls	NUETRALIZE
Recover	SLOWLY

C152 Performance (110hp)

Fuel Capacity	24.5 Usable Gallons
Fuel Burn	~6 GPH
Range	~350 NM
Endurance	~3.5 Hours

Airport	WX	Twr-CTAF	TPA	Runways
KBJC	126.250	118.6/121.7	6500	30RL/12RL
KEIK	133.825	123.000	6200	34/16rp
KLMO	120.000	122.975	6000	29/11
KFNL	135.075	118.4/121.65	6000	33/15
KBDU	118.825	122.725	6300	8/26rp
KGXY	135.175	122.800	5500	35/17/28/10
KAPA	120.300	118.9/121.8	6900	35RL/17RL
Practice Area Longmont			123.175	
Practice Area Chatfield			122.750	
Emergency		121.500		
Flight Service		122.200		
Den App	(W)126.1	(N)134.85	(E)128.25	(S)128.45
KBJC Fuel Truck		(303) 466-2336	122.950	
KBJC Tower		(303) 633-8600		
IFR Clearance		(888) 766-8267		

Maneuver Configuration (Clearing Turns, Altitude, Landing Area)	
Steep Turns	Flaps UP, Gear UP, xx*MP/xxxrpm, xxx KIAS, Add xx in Turn
Slow Flight	Flaps FULL, Gear DOWN, xx*MP then xx*MP Prop FULL, xx KIAS
Power On Stall	Flaps UP, Gear DOWN, xx*MP, Prop FULL, xx KIAS, then Full Power
Power Off Stall	Flaps DOWN, Gear DOWN, xx*MP, Prop FULL, Descend, then IDLE
Emergency Descent	Flaps DOWN, Gear DOWN, Prop FULL, Power IDLE, 30° xxx KIAS
Steep Spiral	Flaps UP, Gear UP, Prop FULL, Power IDLE, <60°, xx KIAS
Ground Ref	Flaps UP, Gear UP, Prop FULL, xx*MP, xxx KIAS
Chandelle	Flaps UP, Gear UP, Prop FULL, xx*MP, xxx KIAS, then Power FULL
Lazy 8	Flaps UP, Gear UP, Prop FULL, xx*MP, xxx KIAS