

CHECKLIST FOR CESSNA 152

TECHNICAL DATA

WEIGHTS

Maximum takeoff weight (MTOW)	757 kg
Standard empty weight	513 kg

FUEL

AVGAS 100 LL (<i>blue</i>) or SUPER PLUS (<i>yellow</i>)	98 l
Useable fuel	92 l

ENGINE

Type	four-cylinder boxer, air-cooled, carbureted O-235
Takeoff power	110 PS
Engine oil	6 qt

PROPELLER

McCaughey	2 blade, fixed pitch
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ELECTRICAL SYSTEM

Alternator	24 V / 60 A
Battery	24 V / 30 Ah

AIRSPEED LIMITATIONS

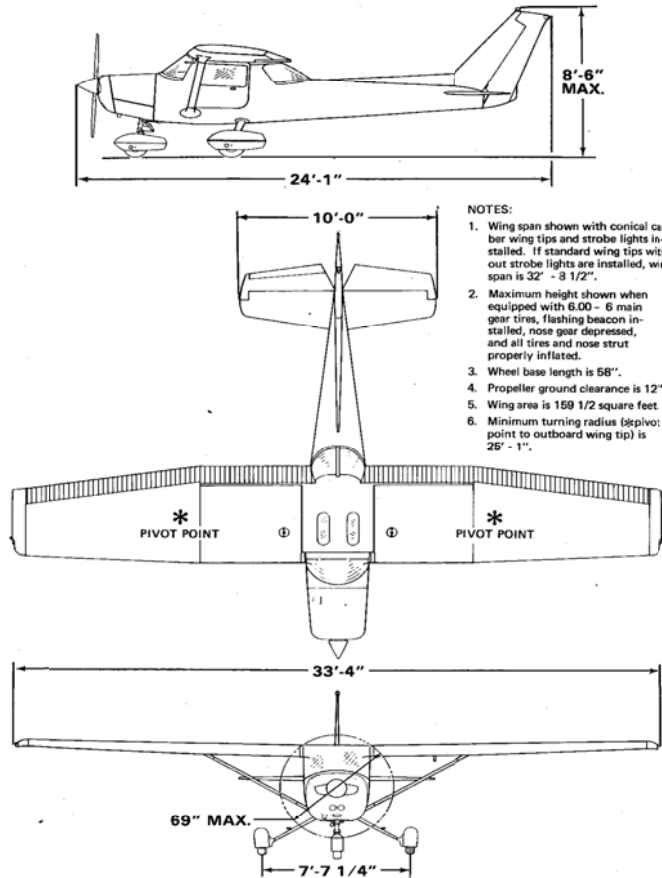
Never exceed speed	Vne	149 KIAS
Max. structural cruise speed (turbulent air)	Vno	111 KIAS
Max. flaps extended speed	Vfe	85 KIAS
Max. window open speed		143 KIAS
Maneuvering speed Va	757 kg	104 KIAS
	680 kg	98 KIAS
	612 kg	93 KIAS
Max. demonstrated crosswind component		12 KTS

NOTE:

This checklist must not be taken as authoritative. It should only be used to supplement the Pilot's Operating Handbook.

SECTION 1
GENERAL

CESSNA
MODEL A152



- NOTES:
1. Wing span shown with conical camber wing tips and strobe lights installed. If standard wing tips without strobe lights are installed, wing span is 32' - 8 1/2".
 2. Maximum height shown when equipped with 6.00 - 6 main gear tires, flashing beacon installed, nose gear depressed, and all tires and nose strut properly inflated.
 3. Wheel base length is 58".
 4. Propeller ground clearance is 12".
 5. Wing area is 159 1/2 square feet.
 6. Minimum turning radius (pivot: point to outboard wing tip) is 26' - 1".

Figure 1-1. Three View

REFLIGHT CHECK

Approaching the aircraft:

- | | | |
|--|-------------------------------|---|
| 1..... Tow bar, Chocks and tie downs | REMOVED / STOWED | 1 |
| 2..... Pitot tube cover | REMOVED / STOWED | 2 |
| 3..... General condition | CHECKED | 3 |
| 4..... Windshield | CLEAN | 4 |
| 5..... Fuel tank sumps and fuel line | DRAIN | 5 |

Cockpit:

- | | | |
|---|-----------------------------------|----|
| 1..... Aircraft manual and papers | ON BOARD / CURRENT | 1 |
| 2..... Weight and balance | CALCULATED | 2 |
| 3..... Control lock | REMOVED | 3 |
| 4..... Ignition switch | OFF | 4 |
| 5..... Throttle | CLOSED | 5 |
| 6..... Mixture | IDLE CUTOFF (pulled) | 6 |
| 7..... All electrical switches | OFF | 7 |
| 8..... Circuit breakers | ALL IN | 8 |
| 9..... Master switch | ON | 9 |
| 10..... Fuel quantity | CHECKED | 10 |
| 11..... Lights and pitot heat | CHECKED if required | 11 |
| 12..... Master switch | OFF | 12 |
| 13..... Trim tab | SET FOR TAKEOFF | 13 |
| 14..... Fuel shutoff valve | OPEN | 14 |

Outside:

- | | | |
|--|-----------------------------------|----|
| 1..... Propeller and spinner | CHECKED | 1 |
| 2..... Air intakes | CHECKED | 2 |
| 3..... Alternator belt and engine oil cooler | CHECKED | 3 |
| 4..... Carburetor air filter | CHECKED | 4 |
| 5..... Engine cowling | CHECKED | 5 |
| 6..... Nose wheel assembly | CHECKED | 6 |
| 7..... Engine oil level | CHECKED (6 Quarts) | 7 |
| 8..... Fuel strainer drain knob | ACTUATED / CHECK CLOSED .. | 8 |
| 9..... Fuel quantity right tank | CHECKED | 9 |
| 10..... Fuel filler cap | SECURED | 10 |
| 11..... Right main gear assembly | CHECKED | 11 |
| 12..... Right wing surface | CHECKED | 12 |
| 13..... Right aileron | CHECKED | 13 |
| 14..... Right wing flap | CHECKED | 14 |
| 15..... Right side of fuselage | CHECKED | 15 |

16	Horizontal and vertical stabilizer	CHECKED	16
17	Elevator and rudder	CHECKED	17
18	Trim tab	CHECKED	18
19	Left side of fuselage	CHECKED	19
20	Antennas	CHECKED	20
21	Left wing flap	CHECKED	21
22	Left aileron	CHECKED	22
23	Left wing surface	CHECKED	23
24	Stall warning	CHECKED	24
25	Fuel tank vent	CHECKED	25
26	Pitot tube	CHECKED	26
27	Fuel quantity left tank	CHECKED	27
28	Fuel filler cap	SECURED	28
29	Left main gear assembly	CHECKED	29
30	Static port	CHECKED	30

PREFLIGHT CHECK COMPLETED

BEFORE STARTING ENGINE

1	Preflight check	COMPLETED	1
2	Seats	ADJUSTED / SECURED	2
3	Seat belts and shoulder harness	FASTENED	3
4	Doors	CLOSED	4
5	Parking brake	SET	5
6	All radios and electrical equipment	OFF	6
7	Circuit breakers	ALL IN	7
8	Fuel shutoff valve	OPEN	8

READY TO START ENGINE

STARTING ENGINE

1	Carburetor heat	OFF (pushed)	1
2	Throttle	1 cm OPEN	2
3	Friction lock	ADJUSTED	3
4	Mixture	FULL RICH (pushed)	4
5	Primer	AS REQUIRED / LOCKED	5
6	Master switch	ON	6
7	Fuel quantity	CHECKED	7
8	Beacon light	ON	8
9	Propeller area	CLEAR	9
10	Ignition switch	START / BOTH	10

AFTER ENGINE START

1	Oil pressure	CHECKED	1
2	Warm up	1200 RPM / 1000 RPM	2
3	Radios	ON	3
4	Transponder	STBY	4
5	Flight instruments	SET / CHECKED	5

READY TO TAXI

TAXI CHECK

1	Brakes	CHECKED	1
2	Nose wheel steering	CHECKED	2
3	Gyro instruments	CHECKED	3

TAXI CHECK COMPLETED

BEFORE DEPARTURE CHECK

1	Brakes	APPLIED	1
2	Throttle	1700 RPM	2
3	Engine instruments	GREEN ARC	3
4	Ammeter	CHECKED	4
5	Suction gauge	CHECKED	5
6	Magnetos	CHECKED	6

(max. drop 125 RPM, max. difference 50 RPM)

7	Carburetor heat	ON (pulled) / CHECKED	7
8	Throttle	IDLE	8

Check: Engine is running under worst conditions

9	Carburetor heat	OFF (pushed)	9
10	Throttle	1000 RPM	10
11	Flaps	CHECKED / 10 °	11
12	Flight controls	CHECKED	12
13	Trim tab	SET FOR TAKEOFF	13

TAKEOFF BRIEFING

1	Runway	IDENTIFIED	1
2	Departure briefing	COMPLETED	2
3	Emergency briefing	COMPLETED	3

READY FOR DEPARTURE

BEFORE ENTERING THE RUNWAY

1 ... Approach sector and runway	CLEAR	1
2 ... Landing light.....	ON	2
3 ... Transponder.....	ALT	3

TAKEOFF AND CLIMB OUT

1 ... Runway heading	CHECKED	1
2 ... Takeoff power	FULL THROTTLE	2
3 ... Engine instruments	CHECKED	3
4 ... Speed	CHECKED RISING	4
5 ... Rotation	at 50 KIAS	5
6 ... Climb speeds	60 KIAS with FLAPS 10° 70 KIAS with FLAPS UP	6

CLIMB CHECK

1 ... Climb power	FULL THROTTLE	1
2 ... Flaps	CHECKED UP	2
3 ... Landing light.....	OFF	3

CRUISE CHECK

1 ... Cruise power	SET acc. cruise power table	1
2 ... Elevator trim.....	ADJUSTED	2
3 ... Mixture	LEANED above 5000 feet	3
4 ... Carburetor heat.....	ON if icing conditions exist	4

DESCENT CHECK

1 ... Mixture	ENRICHED (pushed)	1
2 ... Carburetor heat.....	ON if icing conditions exist	2
3 ... Throttle.....	AS REQUIRED	3

APPROACH CHECK

1 ... Mixture	FULL RICH (pushed)	1
2 ... Carburetor heat.....	ON (pulled)	2
3 ... Throttle.....	1600 RPM	3
4 ... Flaps	10° below 85 KIAS	4
5 ... Approach speed.....	70 KIAS	5
6 ... Landing light.....	ON	6

FINAL CHECK

1..... Flaps	FULL	1
2..... Final speed	60 KIAS	2

SHORT FIELD LANDING

1..... Flaps	FULL	1
2 ... Final speed	55 KIAS	2
3..... Throttle.....	IDLE as obstacle is cleared	3
4..... Touch-down	MAIN WHEELS FIRST	4
5..... Brakes.....	APPLY HEAVILY	5
6..... Flaps	RETRACT	6

BALKED LANDING

1..... Power	FULL THROTTLE	1
2..... Carburetor heat.....	OFF	2
3..... Flaps	20°	3
4..... Rotation.....	at 60 KIAS	4
5..... Flaps	10°	5

AFTER LANDING CHECK

1..... Carburetor heat.....	OFF (pushed)	1
2 ... Pitot heat.....	OFF	2
3..... Flaps	UP	3
4..... Transponder.....	OFF	4
5..... Landing light.....	OFF if not required	5

AFTER LANDING CHECK COMPLETED

PARKING CHECK

1..... Parking brake	SET	1
2..... Throttle.....	1000 RPM	2
3..... Emergency frequency (121.5)	MONITOR	3
4..... All Radios	OFF	4
5..... All electrical switches (exc. beacon light)	OFF	5
6..... Mixture	IDLE CUT OFF (pulled)	6
7..... Throttle.....	CLOSED (pulled)	7
8..... Ignition switch	OFF	8
9..... Beacon light	OFF	9
10..... Master switch	OFF	10
11..... Control lock	INSTALLED	11

PARKING CHECK COMPLETED

ENGINE FAILURE DURING TAKOFF ROLL

1 ... Throttle.....	CLOSE	1
2 ... Brakes.....	APPLY as required	2
3 ... Flaps.....	UP	3
4 ... Mixture.....	IDLE CUTOFF (pulled)	4
5 ... Ignition switch.....	OFF	5
6 ... Master switch.....	OFF	6
7 ... Fuel shutoff valve.....	CLOSE	7

ENGINE FAILURE SHORT AFTER TAKEOFF

1 ... Speed.....	60 KIAS	1
2 ... Flaps.....	AS REQUIRED	2
3 ... Mixture.....	IDLE CUTOFF (pulled)	3
4 ... Ignition switch.....	OFF	4
5 ... Master switch.....	OFF	5
6 ... Fuel shutoff valve.....	CLOSE	6

ENGINE POWER LOSS IN FLIGHT

1 ... Speed.....	60 KIAS	1
2 ... Carburetor heat.....	ON (pulled)	2
3 ... Primer.....	CHECK LOCKED	3
4 ... Mixture.....	FULL RICH or try LEAN	4
5 ... Fuel shutoff valve.....	OPEN	5
6 ... Ignition switch.....	BOTH or try LEFT / RIGHT	6

EMERGENCY LANDING WITHOUT ENGINE POWER

1 ... Speed.....	60 KIAS	1
2 ... Mixture.....	IDLE CUTOFF (pulled)	2
3 ... Ignition switch.....	OFF	3
4 ... Fuel shutoff valve.....	CLOSE	4
5 ... Loose items.....	SECURE	5
6 ... Seat belts and shoulder harness.....	FASTEN	6
7 ... Transponder.....	SQUAWK 7700	7
8 ... ATC.....	INFORM	8

Before landing:

9 ... Flaps.....	AS REQUIRED	9
10 ... Master switch.....	OFF	10
11 ... Doors.....	UNLATCH	11

PRECAUTIONARY LANDING

1 ... Mixture.....	FULL RICH (pushed)	1
2 ... Carburetor heat.....	ON	2
3 ... Flaps.....	10° below 85 KIAS	3
4 ... Approach speed.....	70 KIAS	4
5 ... Loose items.....	SECURE	5
6 ... Seat belts and shoulder harness.....	FASTEN	6
7 ... Transponder.....	SQUAWK 7700	7
8 ... ATC.....	INFORM	8

Before landing:

9 ... Flaps.....	FULL	9
10 ... Final speed.....	60 KIAS / 55 KIAS	10
11 ... Doors.....	UNLATCH	11

On ground:

12 ... Brakes.....	APPLY as required	12
13 ... Mixture.....	IDLE CUTOFF (pull)	13
14 ... Ignition switch.....	OFF	14
15 ... Master switch.....	OFF	15
16 ... Fuel shutoff valve.....	CLOSE	16

ENGINE FIRE DURING START ON GROUND

1 ... Cranking.....	CONTINUE	1
<i>If engine starts:</i>		
2 ... Throttle.....	1700 RPM for a few minutes	2
3 ... Engine.....	SHUT DOWN	3
<i>If engine fails to start:</i>		
4 ... Throttle.....	FULL FORWARD	4
5 ... Mixture	IDLE CUTOFF	5
6 ... Cranking.....	CONTINUE	6
7 ... Fire extinguisher	PREPARE	7
8 ... Ignition switch	OFF	8
9 ... Master switch	OFF	9
10 ... Fuel shutoff valve.....	CLOSE	10
11 ... Fire fighting	PERFORM	11

ENGINE FIRE IN FLIGHT

1 ... Mixture	IDLE CUTOFF	1
2 ... Fuel shutoff valve.....	CLOSE	2
3 ... Master switch	OFF	3
4 ... Cabin air and heat.....	OFF (exc. wing root vents)	4
5 ... Speed	85 KIAS or vary	5
6 ... Emergency landing	EXECUTE	6

CABIN FIRE

1 ... Master switch	OFF	1
2 ... Cabin air, heat and wing root vents.....	CLOSE	2
3 ... Fire extinguisher	ACTIVATE	3
4 ... Cabin	VENTILATE when exting. is empty	4
5 ... Landing	PERFORM as soon as possible	5

ELECTRICAL FIRE IN FLIGHT

1 ... Master switch.....	OFF	1
2 ... All electrical switches.....	OFF (exc. ignition switch)	2
3 ... Cabin air, heat and wing root vents	CLOSE	3
4 ... Fire extinguisher	ACTIVATE	4
5 ... Cabin	VENTILATE when exting. is empty	5
<i>If fire appears out and electrical power is necessary:</i>		
6 ... Master switch.....	ON	6
7 ... Circuit breakers	CHECK without resetting	7
8 ... Essential radios and el. switches.....	ON one at a time	8

WING FIRE

1 ... Navigation lights	OFF	1
2 ... Strobe lights.....	OFF if installed	2
3 ... Pitot heat	OFF if installed	3
4 ... Side slip.....	PERFORM	4
5 ... Landing.....	PERFORM as soon as possible	5

Land with retracted flaps

ICING

1 ... Pitot heat	ON	1
2 ... Cabin heat	FULLY ON	2
3 ... Throttle	INCREASE RPM	3
4 ... Carburetor heat	ON	4
5 ... Mixture.....	LEAN	5

Reverse course or change altitude to obtain a higher OAT.

6 ... Storm window	OPEN and scrape ice	6
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Land at the nearest aerodrome with retracted flaps. In severe icing conditions consider precautionary landing on suitable area.

*Be prepared for **significantly higher stall speeds!***