

CESSNA 172S CHECKLISTS

PREFLIGHT - COCKPIT

Pitot Tube Cover	REMOVED
Required Documents	AVAILABLE IN
Airworthiness Cert.	AIRCRAFT
Registration	
Radio License (if travelling outside U.S.)	
Operating Ref. (AFM or POH)	
Weight and Balance	
Hobbs & Tach Meters	CHECKED
Weight & Balance	CHECKED
Control Wheel Lock	REMOVED
Ignition Switch	OFF
Avionics Master	OFF
Master Switch	BATTERY
Fuel Quantity	CHECK QUANTITY
Low Fuel Annunciators	EXTINGUISHED
Annunciator	TEST 3 FLASHES
Avionics Master	ON
Avionics Cooling Fan	LISTEN for OPERATION
Avionics Master	OFF
Static Prs. Alt. Source	OFF
Flaps	SET TO 10°/20°/30°
Fire Extinguisher	CHARGED
Fuel Selector Valve	BOTH
Fuel Shutoff Valve	FULL IN
Trim	SET TO NEUTRAL
Rotating Beacon	CHECK (3 FLASHES)
All Lights (if req'd)	CHECK OPERATING
Master Switch	OFF

PREFLIGHT - EXTERNAL

Pitot Tube Cover	REMOVED
Baggage Door	CLOSED AND LOCKED
Tiedowns / Chocks	REMOVED
Exterior Checks	Follow POH

PREFLIGHT CABIN (FINAL CHECK)

Baggage Area	SECURE
Rear Seat	SECURE
Passenger Briefing	
- Use of Seat Belts / Seats	
- Door Latch / Windows, Exiting Aircraft	
- Exiting Aircraft	
- Fire Extinguisher & First Aid Kit	
- ELT (location & operation)	
- Power Controls	
- No Personal Electronic Devices / Smoking	
- Sterile Cockpit (no talking takeoff/landing)	
- Questions??	
Seat and Seatbelts	ADJUSTED & SECURE
Doors	CLOSED & LOCKED

PRE-START CHECKLIST

Fuel Selector	BOTH
Fuel Shutoff Valve	FULL IN

ENGINE START

Area	CLEAR
Master Switch	ON
Beacon Light	ON
<i>Skip these steps for warm or hot starts</i>	
Throttle	FULL FORWARD
Mixture	FULL FORWARD
Fuel Pump	ON (3-4 seconds)
Mixture	IDLE CUTOFF
Throttle	1/8" to 1/4" FORWARD
Ignition Switch	START (up to 30 sec.)
Mixture	ADVANCE SMOOTHLY
	WHEN STARTED
Oil Pressure	CHECK

PRE-TAXI CHECKLIST

Avionics Master	ON
Transponder	STANDBY - 1200
Instruments	SET
Nav. Lights	ON AT NIGHT
Flaps	UP
Circuit Breakers	CHECK IN (Both rows)
Brakes	CHECK
Ailerons	AS REQ'D FOR WIND

RUNUP CHECKLIST

Flight Instruments	CHECK
- Compass / Hdg. Ind.	- Turn Coord. / Airspd
- Att. Ind. / Altimeter	- Vert. Speed Ind.
Brakes	HOLD
Oil Pressure	IN LIMITS
Mixture	ENRICHED
Throttle	1800 RPM
Mixture	Leaned above 3000'
Engine Gauges	IN LIMITS
- Oil Press. / Temp. // Suction / Ammeter	
Magnetos	CHECK - 150 / 50
Annunciator Panel	CHECK
Throttle	1000 RPM

PRE-TAKEOFF CHECKLIST

Kind of Takeoff	REVIEW
Trim	SET FOR TAKEOFF
Flaps	SET FOR TAKEOFF
Radio	SET (Nav/Comm)
Doors / Windows	CLOSED & LOCKED

TAKING RUNWAY

Transponder	ON ALTITUDE
Lights	STROBE ON AT NIGHT
Mixture	SET FOR TAKEOFF

AFTER TAKEOFF

Climb Power	SET
Engine Gauges	IN LIMITS

CESSNA 172S CHECKLISTS

BEFORE LANDING

Kind of Landing	REVIEW
Seat Backs	FULL UPRIGHT
Seats / Seat Belts	SECURED and LOCKED
Autopilot	OFF
G.U.M.P.	CHECK
- Gas (Fuel)	SET TO BOTH
- Undercarriage (landing gear)	
- Mixture	FULL RICH
- Propeller	

BASE AND FINAL

ATC Clearance	
Landing / Taxi Lights	ON AS REQUIRED
G.U.M.P.	CHECK

BALKED LANDING (GO AROUND)

Throttle	FULL FORWARD
Flaps	UP TO 20°
Climb	70 KIAS OR BETTER

TOUCH AND GO

Throttle	FULL FORWARD
Mixture	AS REQUIRED
Trim	SET FOR TAKEOFF
Climb	70 KIAS OR BETTER

AFTER LANDING (OFF RUNWAY)

Flaps	UP
Ailerons	AS REQUIRED
Mixture	LEANED AS REQ'D
Strobe / Nav. Lights	OFF
Transponder	STANDBY

ENGINE SHUTDOWN

Throttle	1000 to 1200 RPM
Avionics Master	OFF
Mixture	IDLE CUTOFF (slowly)
All Lights	OFF
Magnetos	OFF
Master Switch	OFF
Fuel Selector	LEFT or RIGHT

TAKEOFF REVIEW

NORMAL TAKEOFF

Flaps	0° TO 10°
Rotate	50 KIAS
Liftoff	55 KIAS
Climb	70 TO 80 KIAS

OBSTACLE TAKEOFF (SHORT FIELD)

Flaps	10°
Rotate	45 KIAS
Liftoff	50 KIAS
Clear Obstacle	57 KIAS
Climb	70 TO 85 KIAS

SOFTFIELD TAKEOFF

Flaps	10°
Rotate	Minimum Speed
Liftoff	Minimum Speed
Flaps	UP AT 55 KIAS
Climb	75 KIAS

LANDING REVIEW

POSITION IN PATTERN	KIAS AT FLAP SETTING		
	10°	20°	30°
Downwind	80	--	--
Base	80	70	--
Final	80	70	60

"V" Speeds

SYMBOL	AIRSPEED (KIAS)
V _Y (best climb)	79 / 71
V _X (fastest climb)	60 / 65
V _{NE} (never exceed)	163
V _{NO} (max cruising)	129
V _A (maneuvering)	99
V _{FE} (flaps extended)	110 / 85
V _G (glide w/o flaps)	65
V _{GF} (glide w/flaps)	60
V _{SO} (stall w/flaps)	33
V _{S1} (stall w/o flaps)	44
V _R (rotate)	55
V _{LOF} (normal liftoff)	60

COMMON FREQUENCIES FOR DVT

ATIS	126.5
Ground Control	121.8
Tower Control (South)	118.4
Tower Control (North)	120.2
Aircraft-To-Aircraft	122.75 / 122.85

