

CESSNA 172

AIRCRAFT CHECKLIST



PLANNING	ENGINE START	PRE TAKEOFF	DESCENT: WIRETAP
PAVE IMSAFE AAV1ATE NWKRAFT ATOMATOFLAMES (DAY) FLAPS (NIGHT) GRABCARD (IFR) NAV LOG / FLIGHT PLAN WEIGHT & BALANCE	PAX BRIEFING (SAFETY) SEATS/SEATBELTS/HARNESSES FUEL SELECTOR - BOTH MIXTURE - RICH THROTTLE - OPEN 1/8" CARB HEAT - OFF BEACON - ON CIRCUIT BREAKERS - IN AVIONICS MASTER - OFF PRIMER - 4X (COLD) / IN & LOCKED BRAKES - HOLD MASTER SWITCH - ON PROPELLER AREA - "CLEAR!" HAND ON THROTTLE IGNITION KEY - START POWER - 1,000 RPM OIL PRESSURE - GREEN AVIONICS MASTER - ON MIXTURE - LEAN FOR TAXI FLAPS - UP	DEPARTURE BRIEFING GPS/VOR - SET RADIOS - SET CHECK FOR TRAFFIC RADIO CALL (CTAF/TOWER) "LIGHTS" LANDING LIGHTS - ON STROBES - ON "CAMERA" TRANSPONDER - CHECK SET "ACTION" TRIM FLAPS MIXTURE CARB HEAT - OFF START TIMER OR NOTE TIME OFF	WEATHER - OBTAIN INSTRUMENTS (ALT, HEADING) RADIOS ENGINE GAUGES GREEN MIXTURE - RICH CARB HEAT - AS NEEDED TALK - 10 MILES OUT ALTITUDE PLAN APPROACH
PREFLIGHT	PRE TAXI	TAKEOFF	PRE-LANDING: GUMPS
FSP - CHECKOUT SPARROWED - ONBOARD CONTROL LOCK - REMOVE ALT STATIC - VERIFY OFF MASTER SWITCH - ON FUEL GAUGES - CHECK QTY FLAPS - DOWN PITOT HEAT - CHECK LIGHTS - CHECK MASTER SWITCH - OFF WALKAROUND - 1 LAP CCW - START FROM PILOT DOOR CONTROL SURFACES GEAR/TIRES/BRAKES ANTENNAS FUEL - STAB TANKS SUMP - 1ST FLT OF DAY / REFUEL STRAINER - 1ST FLT/REFUEL FUEL CAPS - SECURE TANK VENT - CLEAR OIL FOR ECHOES: 6-7 QUARTS OIL FOR 96836: 5-6 QUARTS OIL CAP SNUG - NOT TIGHT WINDSHIELD - CLEAN INLETS / COWLING / EXHAUST ALTERNATOR BELT / AIR FILTER PROP / SPINNER PITOT & STATIC PORTS BAGGAGE DOOR - LOCK TIE DOWNS/CHOCKS - REMOVE	WEATHER ALTIMETER TRANSPONDER TAXI DIAGRAM RADIO CALL NAV LIGHTS - ON TAXI LIGHT - ON	"RUNWAY HEADING CONFIRMED" "TAKEOFF POWER SET" "AIRSPEED ALIVE" "TWO IN THE GREEN" "Vr - ROTATE" "POSITIVE RATE" PITCH FOR Vx or Vy - AS REQUIRED "FLAPS UP" - AS REQUIRED MORE RIGHT RUDDER! MAINTAIN CENTERLINE / RWY HDG	GAS - CARB HEAT / FUEL BOTH UNDERCARRIAGE - DOWN MIXTURE - RICH PROP - 2,100 RPM SWITCHES - LANDING LIGHT ON SEATBELTS/HARNESSES - SECURE
			AFTER LANDING
			EXIT RUNWAY - COME TO A STOP FLAPS - UP MIXTURE - LEAN FOR TAXI CARB HEAT - OFF STROBES - OFF LANDING LIGHT - OFF PITOT HEAT - OFF TAXI DIAGRAM TRIM - SET FOR TAKEOFF RADIO CALL
		ENROUTE CLIMB	SHUTDOWN
		ABOVE 1,000' AGL CLIMB SPEED - 80-85 KTS RIGHT RUDDER - KEEP HOLDING MIXTURE - SEE LEAN PROCEDURE INSTRUMENTS - CHECK	TRANSPONDER - VFR BEACON - LEAVE ON EXTERNAL LIGHTS - OFF INTERNAL/COURTESY LIGHTS - OFF AVIONICS MASTER - OFF MIXTURE - IDLE CUTOFF IGNITION KEY - OFF MASTER - OFF NO PARKING BRK IF CHOCKS/TIE CONTROL LOCK - INSTALL FSP - CHECK-IN
		CRUISE: FRED A	
		FUEL - CHECK QTY, TANK SELECT RADIOS - ATIS, COMM, NAV ENGINE - LEAN, GREEN, 65% BHP DIRECTION - ALIGN DG, ON COURSE ALTITUDE - SET ALTIMETER	

PAX BRIEFING	DEPT BRIEFING	SPECIAL OPERATIONS	V SPEEDS	ECHOES	96836
SEATS/SEAT BELTS HARNESSES DOORS/WINDOWS AIR VENTS / HEAT AIRSICKNESS (BAG) EMERG EVAC STERILE COCKPIT TRAFFIC CALLOUTS ANY QUESTIONS? HEADSETS (PLUGS) MIC (NEAR MOUTH) VOLUME/SQUELCH	PILOT FLYING / PIC RUNWAY # TYPE OF TAKEOFF ROTATE/CLIMB SPEEDS TURNS / COURSE DEPARTURE ALTITUDE NOISE ABATEMENT ABORT POINT (50/70) ENGINE FAIL ON T/O ENGINE FAIL < 500 ENGINE FAIL 500-1,000 ENGINE FAIL > 1,000 ANY QUESTIONS?	SHORT FIELD TAKEOFF FLAPS 10° Vr 51 KTS MIN STATIC RPM - 2,280 Vx OVER OBSTACLE THEN Vy SHORT FIELD LANDING FINAL AIRSPEED - 61 KTS SOFT FIELD TAKEOFF FLAPS 10° SOFT FIELD LANDING KEEP SOME POWER IN (~100 RPM) HOLD NOSE WHEEL OFF LEANING PROCEDURE ABOVE 3,000' LEAN UNTIL PEAK EGT ON HOTTEST CYLINDER, THEN ENRICHEN 75° >3,000' DENSITY ALTITUDE TAKEOFF LEAN FOR MAX RPM FUEL PLANNING: 1.1 GAL (TAXI & T/O) + 1 GAL PER 3,000' (CLIMB) + CRUISE GPH (SEE TABLE BELOW) + 4.1 GAL (45 MIN RESERVE @ 2,100 RPM) TOP OF DESCENT PLANNING 4NM PER 1,000' @ 120KTS/500FPM 3NM PER 1,000' @ 90 KTS/500FPM	Vr Vx Vy Vs0 Vs1 Best Glide Va Vfe Vno Vne Vref Xwind 55 56 76 41 47 65 80-97 110 / 85 128 160 65-75 15	55 56 76 33 46 65 82-99 110 / 85 127 158 65-75 15	55 56 76 33 46 65 82-99 110 / 85 127 158 65-75 15

CRUISE PERFORMANCE - NO WIND, LEAN MIXTURE, STANDARD TEMP, 45 MIN RESERVE- FUEL CAPACITY 43 GALLONS (40 USABLE)									
ALTITUDE	ECONOMY 55% BHP (518 NM, 5.2 HRS)			BEST 65% BHP (482 NM, 4.4 HRS)			MAX PERF 75% BHP (465NM, 4 HRS)		
	RPM	KTAS	FUEL GPH	RPM	KTAS	GPH	RPM	KTAS	GPH
	2,000	97	6.3	2,350	106	6.3	2,500	114	8.5
	4,000	96	6.1	2,400	108	7.3	2,550	117	8.5
	6,000	98	6.2	2,450	110	7.4	2,650	119	8.6
	8,000	100	6.2	2,500	112	7.4	2,650	121	8.6
	10,000	100	6.2	2,500	111	7.1	2,600	117	7.8

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EMERGENCY AIRCRAFT CHECKLIST



ENG FAIL DURING ROLL

THROTTLE - IDLE
BRAKES - APPLY
FLAPS - RETRACT
MIXTURE - IDLE CUT-OFF
IGNITION SWITCH - OFF
MASTER SWITCH - OFF

ENG FAIL AFTER ROTATE

AIRSPEED - 65 KTS
MIXTURE - IDLE CUT-OFF
FUEL SHUTOFF VALVE - OFF
IGNITION SWITCH - OFF
FLAPS - AS REQUIRED
MASTER SWITCH - OFF
CABIN DOOR - UNLATCH

ENG FAIL INFIGHT

AIRSPEED - 65 KTS
FLOOR TO THE DOOR
FUEL SELECTOR - BOTH
CARB HEAT - ON
MIXTURE - RICH
PRIMER - IN & LOCKED
MASTER SWITCH - ON
IGNITION - ATTEMPT RESTART
IF NO START SEE FORCED LANDING

FORCED LANDING

AIRSPEED - 65 KTS
BEST PLACE TO LAND
SEATBELTS/HARNESS - SECURE
FUEL SELECTOR - OFF
MIXTURE - IDLE CUT-OFF
IGNITION - OFF
DECLARE / SQUAWK 7700
FLAPS - AS REQUIRED
MASTER SWITCH - OFF
EXIT - UNLATCH / EVAC PLAN

EMERGENCY DESCENT

CARB HEAT - ON
THROTTLE - IDLE
30° - 45° BANK
DESCEND - V_{ne} (REAL) V_{no} (SIM)

ABCDE - ENGINE OUT

AIRSPEED - BEST GLIDE 65 KIAS
BEST PLACE TO LAND
CHECK SYSTEMS
DECLARE / SQUAWK 7700
EXIT - UNLATCH / EVAC PLAN

FIRE DURING START

CRANKING - CONTINUE
IF ENGINE STARTS
RUN AT 1,700 FOR 3 MIN
ENGINE SHUTDOWN
IF ENGINE FAILS TO START
THROTTLE - FULL OPEN
MIXTURE - IDLE CUT-OFF
CRANKING - CONTINUE
MASTER SWITCH - OFF
IGNITION - OFF
FUEL SELECTOR VALVE - OFF
EVACUATE
EXTINGUISH

ENGINE FIRE

MIXTURE - IDLE CUT-OFF
FUEL SELECTOR - OFF
MASTER SWITCH - OFF
CABIN HEAT & AIR - OFF
EXTINGUISH - AIRSPEED > 100 KTS
DO NOT ATTEMPT RESTART
SEE FORCED LANDING CHECKLIST

ELECTRICAL FIRE

MASTER SWITCH - OFF
HEAT/AIR/VENTS - CLOSE
AVIONICS MASTER - OFF
ALL ELECTRIC DEVICES - OFF
FIRE EXTINGUISHER IF AVAILABLE
IF FIRE EXTINGUISHED
AIR/VENTS - OPEN ALL
LAND ASAP
IF ELECTRICAL IS CRITICAL
MASTER SWITCH - ON
ONE DEVICE AT A TIME - ON
CIRCUIT BREAKERS - 1X ATTEMPT

CABIN FIRE

MASTER SWITCH - OFF
HEAT/AIR/VENTS - CLOSE
FIRE EXTINGUISHER IF AVAILABLE
IF FIRE EXTINGUISHED
AIR/VENTS - OPEN ALL
LAND ASAP

WING FIRE

NAV LIGHT - OFF
STROBE LIGHT - OFF
PITOT HEAT - OFF
SIDE SLIP TO KEEP FIRE AWAY
LAND ASAP
FLAPS - ONLY IF REQUIRED

LOW VOLTAGE

AVIONICS MASTER - OFF
ALTERNATOR CIRCUIT BREAKER IN
MASTER SWITCH - OFF
MASTER SWITCH - ON
IF RESOLVED
AVIONICS MASTER - ON
IF NOT FIXED
SEE "ON BATTERY" CHECKLIST

OVER CHARGE

IF AMMETER FULL RIGHT NEEDLE
MASTER SWITCH - OFF
MASTER SWITCH - ON
IF NOT FIXED
PULL ALTERNATOR CIRCUIT BRK
SEE "ON BATTERY" CHECKLIST

ON BATTERY

BATTERY POWER = 30-45 MIN
LAND ASAP
ALT SWITCH (LEFT MASTER) - OFF
ALL LIGHTS & HEATS (PITOT) - OFF
SHED GPS IF CAN USE COM/NAV 2
TEMP. TURN OFF MASTER IF ABLE
CONSERVE POWER FOR FLAPS
CONSERVE POWER FOR RADIO

AIRFRAME ICING

PITOT HEAT - ON
TURN BACK OR CLIMB/DESCEND
CABIN HEAT - FULL HOT
WINDSHIELD DEFROSTER - OPEN
THROTTLE - FULL
CARB HEAT - IF POWER LOSS
MIXTURE LEAN - IF CARB HEAT
PLAN LANDING - NRST AIRPORT
IF RAPID BUILDUP - OFF AIRPORT
EXPECT V_{so} TO RISE IF ICE > 1/4"
FLAPS - 0° ON LANDING
APPROACH AT 75-85 KIAS
LAND - LEVEL ATTITUDE

ALT/YSI MALFUNCTION

ALTERNATE STATIC KNOB - PULL
REFER TO POH - SECTION 5

ENGINE ROUGH

THROTTLE - FULL
CARB HEAT - ON
IF ENGINE IS SMOOTH
CARB HEAT - COLD
THROTTLE - AS REQUIRED

LOW OIL PRESSURE

W/ HIGH TEMP - LWR PWR & LND
W/ NORMAL TEMP - LND NRST ARP

HIGH OIL TEMP

W/ LOW PRESSURE
ENGINE FAILURE IMMINENT
LAND ASAP
W/ NORMAL PRESSURE
REDUCE POWER
MIXTURE - FULL RICH
STOP CLIMB / DESCEND
IF REDLINE - LAND ASAP

NO ELEVATOR CTRL

FLAPS - 20°
AIRSPEED - 65 KTS
TRIM - FOR LEVEL FLIGHT
FLARE - FULL NOSE-UP TRIM

DITCHING

HIGH WINDS/SEAS - INTO WIND
OR PARALLEL TO SWELLS
WITH POWER
FLAPS 30° 300FPM @ 55 KTS
WITHOUT POWER
FLAPS 10° 300FPM @ 70 KTS
TOUCHDOWN - FLAT / NO FLARE

FLAT MAIN TIRE

TOUCHDOWN - GOOD TIRE FIRST

LOST: CCCCC

CONFESS
CLIMB
COMMUNICATE
CONSERVE
COMPLY

GO AROUND: CCCC

CRAM - THROTTLE/CARB HEAT
CLIMB - PITCH FOR 76
CLEAN - FLAPS 20
65 - FLAPS 10
65 - FLAPS UP
COMMUNICATE

LOST COMMS

MICROPHONE BUTTON(S) - STUCK?
RADIO VOLUME/SQUELCH
HEADSET VOLUME/JACK
CIRCUIT BREAKERS
AVIONICS MASTER
SQUAWK 7600

GLIDE RATIO @ 65 KTS - 9:1 - EVERY 1,000' AGL PROVIDES APPROXIMATELY 1.5NM OF GLIDE RANGE

AIRPLANE FACTS

BATT CAPACITY	10 AMP/HR
OIL CAPACITY	8 QTS (N) / 7 QTS (P)
FUEL CAPACITY	40 GALS USABLE
TIRE PRESSURE	NOSE 31 / MAIN 29
MAX GROSS	2,400 LBS
CLIMB AT S.L.	700 FPM
SVC. CEILING	13,000'

PIREPS

1. IDENTIFIER	8. WEATHER*
2. REPORT-TYPE	9. TEMPERATURE*
3. LOCATION	10. WIND*
4. TIME	11. TURBULANCE*
5. ALTITUDE	12. ICING*
6. TYPE A/C	13. REMARKS*
7. SKY COVER*	* = AT LEAST 1 REQUIRED

TOWER LIGHT GUN SIGNALS

STEADY GREEN	CLEARED FOR TAKEOFF	CLEARED FOR LANDING
FLASHING GREEN	CLEARED FOR TAXI	RETURN FOR LANDING
STEADY RED	STOP	GIVE WAY & CIRCLE
FLASHING RED	TAXI CLEAR OF RWNY	DO NOT LAND
FLASHING WHITE	RETURN TO START POINT	N/A
ALT. RED/GREEN	USE EXTREME CAUTION	USE EXTREME CAUTION
GUARD: 121.5 - FSS: 122.2 - AIR-TO-AIR: 122.75 OR "FINGERS" 123.45		

READ - DO - BRIEF - DO - DO - VERIFY - MEMORIZE