

Cessna 172RG Cutlass

Quick reference only. Refer to POH for Complete Procedures

PREFLIGHT

GEAR HANDLE	DOWN
CERT/DOC (ARROW)	ONBOARD
Mx LOG	CHECK
TACH/HOBBS	RECORD
PARKING BRAKE	AS REQUIRED
CONTROL LOCK	REMOVE
MAGNETOS	OFF
MIXTURE	IDLE CUT-OFF
CIRCUIT BREAKERS	CHECK IN
BEACON	ON
ALT STATIC AIR	CHECK OFF
MASTER SWITCH	ON
FLAPS	EXTEND
GEAR LIGHT	TEST/GREEN
FUEL QTY INDICATOR	CHECK
LOW VOLT LIGHT	CHECK ON
LIGHTS/PITOT HEAT	CHECK
MASTER SWITCH	OFF
EXTERIOR	USE EXT CHECKLIST

BEFORE STARTING ENGINES

CHOCKS	REMOVED
BRAKES	SET
AVIONICS MASTER	OFF
PAX BRIEF	S.A.F.E.T.Y.
SEATS/BELTS	UP AND SECURE
ELEC EXCEPT BCN	OFF
CARB HEAT	OFF
AUTOPILOT	OFF
COWL FLAPS	OPEN
FUEL SELECTOR	BOTH

ENGINE START

MIXTURE	FULL RICH
PROP	FULL FWD
THROTTLE	CRACK OPEN
PRIMER	AS REQUIRED
BATT MASTER & ALT	ON
BEACON	ON
NAV LGTS (IF NIGHT)	ON
AREA	CLEAR
MAGNETOS	START
THROTTLE	800-1000
OIL PRESSURE	GREEN
AVIONICS MASTER	ON
FLAPS	RETRACT

KLAF FREQUENCIES

ATIS	127.75
TOWER	119.60
GROUND	121.90
FSS	122.35
GRISSOM APCH	123.85
PURDUE AV UNICOM	122.95

PRE-TAXI

MIXTURE	LEAN 1" FOR TAXI
RADIOS	SET GND/CTAF
TRANSPONDER	ALT, 1200
CLOCK	RUNNING
AIRSPEED	ZERO
ATTITUDE INDICATOR	ERECT
ATIS/AWOS	OBTAIN
ALTIMETER	SET
DIR GYRO	SET TO COMPASS
VSI	NOTE POSITION
EXTERIOR LIGHTS	BCN, TAXI
CONTACT GROUND IF TOWERED,	
CHECK BRAKES, DG, TURN COORD ON	

GROUND CHECK

BRAKES	SET
ELEC FUEL PUMP	TEST
MIXTURE	FULL RICH
THROTTLE	1800 RPM
ENGINE INSTRUMENT	CHECK GREEN
SUCTION GAUGE	CHECK GREEN
ALTERNATOR	TEST
MAG CHECK	MAX DROP 125 MAX DIFF. 50 RPM
PROP GOV CYCLE 3X	CHECK RPM, OIL PRESS, MAP
CARB HEAT	ON, RPM DROP
THROTTLE	IDLE CHECK
CARB HEAT	OFF
THROTTLE	800-1000

BEFORE TAKEOFF

RADIOS	SET TO TWR/CTAF
FLIGHT PLAN	SET
DIR GYRO	SET TO COMPASS
MIXTURE	CHECK FULL RICH
PROP	FULL FWD
COWL FLAPS	AS REQUIRED
ENGINE INSTRUMENT	CHECK
CARB HEAT	OFF
CIRCUIT BREAKERS	CHECK IN
SEATS/SEAT BELT	UP & SECURE
DOORS	CLOSED & LOCKED
FLAPS	SET
AUTOPILOT	OFF
TRIM	SET FOR T.O.
CONTROLS	FREE & CORRECT
DEPARTURE BRIEF	COMPLETE
PARK BRAKE	OFF
WINDOWS	AS REQUIRED
EXTERIOR LIGHTS	ALL ON

TAKEOFF

DIR GYRO	CHECK RWY HDG
THROTTLE	FULL OPEN
ENGINE INSTRUMENT	GREEN
ROTATE	55 KIAS
POS RATE OF CLIMB	GEAR UP
Vy	84 KIAS

ENROUTE CLIMB

AIRSPEED	85-95 KIAS
THROTTLE	25" MAP
PROP	2500 RPM
MIXTURE	LEAN ABOVE 3K
LDG GEAR/FLAPS	VERIFY UP
EXTERIOR LIGHTS	AS REQUIRED
COWL FLAPS	AS REQUIRED

CRUISE

THROTTLE	21" MAP
PROP	2300 RPM
COWL FLAPS	CLOSED
TRIM	AS REQUIRED
MIXTURE	LEAN FOR CRUISE

DESCENT/APPROACH

ATIS/AWOS	OBTAIN
ALTIMETER	SET
COWL FLAPS	OPEN
TOWER/CTAF	CONTACT AT 10 NM
EXTERIOR LIGHTS	ALL ON
APCH BRIEF	CONDUCT
SEATS/SEAT BELTS	UP AND SECURE
FUEL SELECTOR	BOTH
MIXTURE	FULL RICH
CARB HEAT	ON ABEAM THE #s
LDG GEAR	DOWN, GREEN LT
PROP	FULL FWD

AFTER LANDING

PITOT HEAT	OFF
LIGHTS TO JUST BCN AND TAXI	
CARB HEAT	OFF
MIXTURE	LEAN 1" FOR TAXI
FLAPS	RETRACT
COWL FLAPS	OPEN

SHUTDOWN

PARKING BRAKE	ON
TRANSPONDER	ALT, 1200
AVIONICS MASTER	OFF
ELEC EXCEPT BCN	OFF
THROTTLE	FULL IDLE
MAGNETOS	GROUND CHECK
THROTTLE	1200 RPM 10 SEC
MIXTURE	IDLE CUT-OFF
THROTTLE	IDLE
MAGNETOS	OFF
BATT MASTER & ALT	OFF
TACH/HOBBS	RECORD
CONTROL LOCK	IF NEEDED
LANDING GEAR	CHOCK
PARKING BRAKE	OFF
FLIGHT PLAN	CLOSE

UPDATED 04/05/2023



EMERGENCY PROCEDURES

QUICK REFERENCE ONLY. Refer to POH section 3 for complete procedures

ENGINE FIRE DURING START

STARTER	CONTINUE CRANKING
IF ENGINE FAILS TO START:	
THROTTLE	FULL OPEN
MIXTURE	IDLE CUT-OFF
MASTER SWITCH	OFF
MAGNETO SWITCH	OFF
FUEL SELECTOR	OFF
IF FIRE CONTINUES	EVACUATE

ENGINE FIRE IN FLIGHT

MIXTURE	CUT OFF
FUEL SELECTOR	OFF
MASTER SWITCH	OFF
CABIN HEAT AND AIR	OFF EXCEPT OVERHEADS
IF FIRE PERSISTS	EMERGENCY DESCENT
EVACUATE IMMEDIATELY	

ELECTRICAL FIRE IN FLIGHT

MASTER SWITCH	OFF
AVIONICS SWITCH	OFF
ALL ELECTRICAL	OFF
VENTS/CABIN HEAT	CLOSED
FIRE EXTINGUISHER	ACTIVATE
If fire appears out, and electrical power is required:	
MASTER SWITCH	ON
CIRCUIT BREAKERS	IN (DO NOT RESET)
RADIO SWITCHES	OFF
AVIONICS SWITCH	ON
RADIO/ELEC	ON ONE AT A TIME
CABIN VENTS/HEAT	OPEN ONLY IF FIRE OUT

ENGINE FAILURE IN FLIGHT

AIRSPEED	70 KIAS
BEST PLACE TO LAND	AVIGATE, LAND INTO WIND
CHECKLIST:	
CARB HEAT	ON
FUEL SELECTOR	BOTH
MIXTURE	FULL RICH
MAGNETO SWITCH	OTH, START IF PROP STOP
PRIMER	IN & LOCKED

If engine does not restart:

FORCED LANDING

DECLARE EMERGENCY	121.5, SQUAWK 7700
prep to EVACUATE:	
MIXTURE	IDLE CUT-OFF
FUEL SELECTOR	OFF
MAGNETO SWITCH	OFF
LANDING GEAR	DOWN
FLAPS	AS REQUIRED
MASTER SWITCH	OFF
DOORS	OPEN BEFORE LANDING

LANDING GEAR FAILS TO EXTEND

MASTER SWITCH	ON
LANDING GEAR LEVER	DOWN
LANDING GEAR & PUMP CB	IN
EXTEND EMER HAND PUMP	PUMP
LDG GEAR & GREEN LIGHT	3 DOWN & ON
PUMP HANDLE	STOW

LOW VOLTAGE LIGHT ILLUMINATES (ALT FAIL)

AVIONICS MASTER	OFF
ALTERNATOR CB	CHECK IN
MASTER SWITCH	OFF
MASTER SWITCH	ON
LOW VOLT LIGHT	CHECK OFF
AVIONICS MASTER	ON
If low voltage light illuminates again:	
ALTERNATOR	OFF
RADIO/ELEC	ALL NONESSENTIAL OFF
LAND AS SOON AS PRACTICAL	

TRAINING PURPOSES ONLY. REFER TO POH SECTION 3 FOR MORE INFORMATION

V-SPEEDS

Vg BEST GLIDE	61 EMPTY, 73 MTOW
Vso	Stall (Full Flap) 42
Vs1	Stall (Flaps UP) 50
Vr	Rotate 55
Vx	Best Angle of Climb 67
Vy	Best Rate of Climb 84
Va	Maneuvering Speed 89-106
Vfe1	Flaps 0-10° 130
Vfe	Flaps 10-30° 100
Vno	Max Normal Operation 145
Vne	Never Exceed 164
Enroute Climb	85-95
Max Demonstrated Crosswind	15