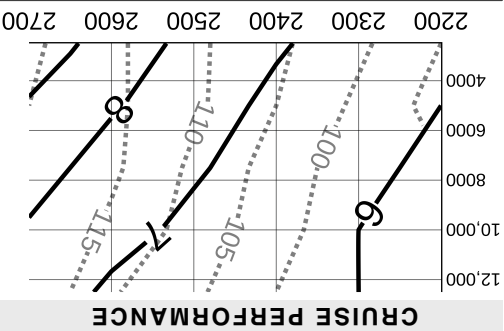


ACRONYMS

CIGAR: Controls, Instruments, Gas, Attitude (Takeoff Trim), Run-up
A MICE ATM: ATIS; Marker beacons (ON+TEST), Identify (set radios + nav); Course (set final or next approach course; Entry type (full or straight-in approach approach? Course reversal? Vectors?); Altitudes (current, FAF, DA/MDA); Time (FAF to MAP); Missed approach procedure briefed.
GUMPS: Gas; Undercarriage, Mixture, Prop, Flaps, Safety Belts



EN ROUTE WEATHER

VERIFY EFB & PHONE WEATHER IS UPDATED!!!

AIRCRAFT PERFORMANCE

Performance requirements along route

C172 Performance App

OTHER EMERGENCY

RANGE in NM @ 65 KIAS, FLAPS UP

AGL **Wind** **Headwind**

10,000 **15** **6.4**

9000 **13.5** **5.8**

8000 **12** **5.1**

7000 **10.5** **4.5**

6000 **9** **3.9**

5000 **7.5** **3.2**

4000 **6** **2.6**

3000 **4.5** **1.9**

2000 **3** **1.3**

1000 **1.5** **0.6**

RANGE in NM @ 65 KIAS, FLAPS UP			MAXIMUM GLIDE		
AGL	Wind	Headwind	INSUFFICIENT RATE OF CHARGE: Nonessential		
10,000	15	11	Electric OFF, Terminate Flight.		
9000	13.5	9.9	RADIO OUT; Check Circuit Breakers & VOLUME, Recycle Alternator Switch. If in B, C, or D Airspace, Squawk 7600, Terminate Flight.		
8000	12	8.8	EXCESSIVE RATE OF CHARGE: Turn Both Sides Of Master Switch OFF / Then ON, If Light Comes On Again, Terminate Flight.		
7000	10.5	7.7	TWR SIGNALS		
6000	9	6.6	Steady Green	Cleared To Takeoff	Cleared To Land
5000	7.5	5.5	Flashing Green	Cleared To Taxi	Return For Landing
4000	6	4.4	Steady Red	STOP	Yield & Continue
3000	4.5	3.3	Flashing Red	Taxi Clear of Landing Area	Airport Unsafe – Do Not Land
2000	3	2.2	Flashing White	Return To Starting Point	–
1000	1.5	0.6	Alternating Red & Green	Use Extreme Caution	Use Extreme Caution

1975 C172M – N9693Q (C172/G)			v.11/24/2020		
Vs	Stall speed, flaps up.	49	Vx	Best AOC, sea level.	64
Vs0	Stall speed, flaps down.	43	Vy	Best ROC, sea level.	78
En route climb, sea level.		80 - 90	At 10,000 ft.		68
Stall speed, flaps up.		49	SF TO w/ obst. & 10° flaps.		55
Obstacle speed, flaps up.		59	At 10,000 ft.		62
Best AOC, sea level.		64	At 10,000 ft.		68

PREFLIGHT – CABIN

Pitot cover remove
Papers (A.R.O.W.) valid
Control lock remove
Rudder hinges, links & counterweights
Antennae no damage
Tie down remove
Fuel drain check fuel, paper napkin test
Flaps hinge, pushrod & movement
Aileron hinge, pushrod & counterweight
Wingtip lights, rivet line & shake wing
Tie down remove
Brakes inspect for wear & inflation
Fuel tank check quantity & secure cap

PREFLIGHT – NOSE

Windshield clean
update weather from internet
Avionics master switch display taxi diagram
Circuit breakers off
Brakes test and set

PREFLIGHT – LEFT WING

Spinner check for security, no cracks
Propeller check for nicks (max. 1/8")
Cooling air intake free of restrictions
Carburetor air filter free of restrictions
Muffler check for security
Landing light(s) check condition & clean
Nose wheel strut inspect & check inflation
Tire check wear & inflation
Static source opening check for stoppage
Fuel tank check quantity & secure cap
Tire inspect for wear & inflation
Brakes inspect for leaks & pad wear
Pitot tube check intakes (2) clear
Fuel vent clear
Tie down remove
Wingtip check lights, rivet line & shake
Aileron check hinges, pushrod, counterweights & movement
Flaps check pushrod & movement
Fuel drain check fuel quality

PREFLIGHT – RIGHT WING

Fuselage no structural damage
Elevator hinges, links & counterweights
Rudder hinges, links & counterweights
Antennae no damage
Tie down remove
Fuel drain check fuel, paper napkin test
Flaps hinge, pushrod & movement
Aileron hinge, pushrod & counterweight
Wingtip lights, rivet line & shake wing
Tie down remove
Brakes inspect for wear & inflation
Fuel tank check quantity & secure cap

PREFLIGHT – RIGHT WING

Fuselage no structural damage
Elevator hinges, links & counterweights
Rudder hinges, links & counterweights
Antennae no damage
Tie down remove
Fuel drain check fuel, paper napkin test
Flaps hinge, pushrod & movement
Aileron hinge, pushrod & counterweight
Wingtip lights, rivet line & shake wing
Tie down remove
Brakes inspect for wear & inflation
Fuel tank check quantity & secure cap

PREFLIGHT – EMPENNAGE

Fuselage no structural damage
Elevator hinges, links & counterweights
Rudder hinges, links & counterweights
Antennae no damage
Tie down remove
Fuel drain check fuel, paper napkin test
Flaps hinge, pushrod & movement
Aileron hinge, pushrod & counterweight
Wingtip lights, rivet line & shake wing
Tie down remove
Brakes inspect for wear & inflation
Fuel tank check quantity & secure cap

PREFLIGHT – NOSE RIGHT

Oil level no less than 6 quarts
Fuel strainer check fuel quality
Airlplane free to roll & no bald-spots
Overall FINAL WALK-AROUND, no openings, no forgotten objects
Before Starting Engine
Preflight inspection COMPLETE
Seat & seat belts secure
Fuel selector both
Avionics master switch off
Circuit breakers in
Brakes test and set

STARTING ENGINE

Mixture rich
Carburetor heat off
Prime as required (3 strokes)
Primer in & locked
Throttle open 1/8 inch
Rotating beacon on
Master switch on
Brakes set
Propeller area "clear"
Ignition start (30s, 2m intervals)
Throttle > 1000 RPM
Oil pressure green in 30 sec, or stop
TIME START TIMER
BEFORE TAXIING

BEFORE TAXIING

Mixture lean for taxi!
Flaps retract
Heading indicator (H.I.) mag. compass
Avionics master switch on
Radios/Nav/XPDR on & set, ALT + 1200
Communications as required
Brakes test