



## C-172RG CHECKLIST

### PREFLIGHT INSPECTION

#### CABIN

1. Documents .....ARROW
2. Flight Plan & Charts ..... AVAILABLE
3. Aircraft Wt & Balance ..... CHECK
4. Parking Brake..... SET
5. Control Wheel Lock ..... REMOVE
6. Magnetos..... OFF
7. Avionics Master ..... OFF
8. Landing Gear Lever ..... DOWN
9. Master (ALT & BAT) ..... ON
10. Lights & Pitot Heat..... CHECK
11. Fuel Quantity (L & R)..... CHECK
12. Flaps ..... EXTEND 10°
13. Gear Down Indicator ..... ILLUMINATED
14. Avionics Cooling Fan..... AUDIBLE
15. Master (ALT & BAT) ..... OFF
16. Circuit Breakers ..... CHECK IN
17. Fire Extinguisher ..... CHECK
18. Fuel Selector Valve ..... BOTH
19. Alternate Static Air Valve..... OFF
20. Elevator Trim ..... SET FOR TAKEOFF

#### EMMPENAGE

1. Baggage Door ..... OPEN (LEAVE KEY)
2. Rudder Gust Lock ..... REMOVE
3. Tail Tiedown ..... REMOVE
4. Rear Control Surfaces ..... CHECK
5. Elevator Trim Tab ..... CHECK
6. Antennas ..... CHECK

#### RIGHT WING

1. Right Flap & Aileron ..... CHECK
2. Right Wing General Condition .. CHECK
3. Right Wing Tiedown ..... REMOVE
4. Right Main Wheel & Tire..... CHECK

5. Right Main Brake Condition ..... CHECK
6. Right Wheel Chocks ..... REMOVE
7. Right Wing Fuel Sump ..... DRAIN
8. Right Fuel Qty & Cap ..... CHECK

#### NOSE AREA

1. Engine Heater.. UNPLUG (if necessary)
2. Engine Oil ..... CHECK (5 qts min)
3. Fuel Strainer ..... DRAIN (4 secs.)
4. Nosewheel Tire & Strut..... CHECK
5. Nose Gear Doors..... CHECK
6. Nosewheel Chocks ..... REMOVE
7. Cowl Plugs..... REMOVE
8. Engine Cooling Air Inlets ..... CHECK
9. Alternator Belt ..... CHECK
10. Propeller & Spinner ..... CHECK
11. Landing Lights ..... CHECK
12. Air Filter ..... CHECK
13. Static Ports (both sides)..... CHECK

#### LEFT WING

1. Left Fuel Quantity & Cap ..... CHECK
2. Fuel Tank Vent Opening..... CHECK
3. Stall Warning Vane ..... CHECK
4. Pitot Tube Cover..... REMOVE
5. Left Wing General Condition..... CHECK
6. Left Aileron & Flap ..... CHECK
7. Left Wing Tiedown ..... REMOVE
8. Left Main Wheel & Tire ..... CHECK
9. Left Main Brake Condition ..... CHECK
10. Left Wheel Chocks ..... REMOVE
11. Left Wing Fuel Sump ..... DRAIN
12. Baggage Door .... CLOSED & LOCKED

### BEFORE ENGINE START

1. Preflight Inspection ..... COMPLETE
2. Hobbs & Tach... NOTE IN CLIPBOARD
3. Passenger Briefing:
  - a. Seat Adjustment..... CHECK
  - b. Seat Belts ..... LATCH / UNLATCH
  - c. Doors ..... OPEN / CLOSE / LOCK
  - d. Windows ..... OPEN / CLOSE / LOCK
  - e. Off-airport landings..... BRIEF
  - f. Weather ..... BRIEF
  - g. Smoking..... NO
4. Seats & Seatbelts .. CHECK & ADJUST
5. Brakes ..... TEST & SET
6. Circuit Breakers ..... CHECK IN

7. Electrical Equipment ..... OFF
8. Avionics Master ..... OFF
9. Fuel Selector Valve..... BOTH
10. Cowl Flaps ..... OPEN
11. Landing Gear Lever ..... DOWN
12. Flight Controls..... FREE & CORRECT

### ENGINE START

1. Beacon..... ON
2. Carburetor Heat ..... OFF
3. Master Switch (ALT & BAT) ..... ON
4. Mixture ..... RICH
5. Throttle..... PUMP ONCE or TWICE
6. Prime ..... AS NECESSARY
7. Fuel Pump ..... ON (if engine is hot)
8. Throttle..... OPEN ½ INCH
9. Propeller Area ..... CLEAR
10. Magnetos Switch ..... START
11. Throttle..... 1000 RPM
12. Oil Pressure ..... CHECK
13. Mixture ..... SET FOR ALTITUDE

### BEFORE TAXI

1. Lights ..... AS REQUIRED
2. Flaps ..... RETRACT
3. Transponder ..... STANDBY
4. Avionics Master ..... ON
5. GPS Flight Plan ..... AS REQUIRED
6. Weather / ATIS ..... LISTEN & RECORD
7. COM Radios ..... SET
8. NAV Radios ..... SET
9. Taxi Clearance..... OBTAINED
10. Taxi Area ..... CLEAR
11. Brakes..... TEST IMMEDIATELY

### TAXI INSTRUMENT CHECK

1. Airspeed..... ZERO
2. Attitude Indicator ..... CHECK and SET
3. Altimeter..... SET
4. Turn Coordinator..... fluid, wings level, responds to turns
5. Compass..... fluid, rotates freely
6. Directional Gyro ..... SET to compass
7. VSI ..... NOTE LEVEL
8. Marker Beacon ..... ON and TEST
9. Alternate Static Source ..... CHECK

10. Autopilot ..... CHECK / TEST
  - a) Autopilot Master Switch ..... "ON".
    - RDY, ST, HD, LO-TRK, HI-TRK, Trim-Up, Trim-Dn, Alt, all annunciate.
    - Trim-Up light extinguishes after 2 sec. All others extinguish after 7 sec except ALT, which extinguishes after 10 seconds.
  - b) Engage Stabilizer (ST) Mode, move control wheel to the neutral position.
  - c) Press and hold the Mode Select Switch, until the A/P disconnects
  - d) The RDY light flashes, you should get an audible beeping tone for approx 5 sec.

(NOTE: See System 30 POH for full checklist)

### BEFORE TAKEOFF CHECK

1. Brakes ..... SET
2. Seats, Seat backs, Seatbelts ... CHECK
3. Doors ..... CLOSED & LOCKED
4. Altimeter..... SET
5. Directional Gyro .... SET TO COMPASS
6. Fuel Quantity..... CHECK
7. Fuel Selector Valve ..... BOTH
8. Fuel Pump..... ON / CHECK / OFF
9. Elevator Trim..... SET FOR TAKEOFF

#### RUNUP

10. Mixture ..... RICH
11. Throttle..... 1700 RPM
12. Mixture ..... SET FOR ALTITUDE
13. Propeller..... CYCLE
14. Carburetor Heat ... CHECK RPM DROP
15. Magnetos ..... CHECK  
150 max drop, 50 max difference
16. Ammeter ..... CHECK
17. Engine Indicators ..... CHECK
18. Suction Gage ..... CHECK
19. Throttle..... CHECK IDLE
20. Throttle..... 1000 RPM or less
21. Throttle Friction ..... SET
22. COM Radios ..... SET
23. NAV Radios ..... SET
24. GPS Flight Plan ..... AS DESIRED
25. Transponder... ALT / CHECK SQUAWK
26. Lights ..... AS REQUIRED
27. Brakes..... RELEASE
28. Takeoff Clearance..... OBTAINED

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## NORMAL TAKEOFF

Flaps..... UP  
Carburetor Heat..... OFF  
Cowl Flaps..... OPEN  
Throttle ..... FULL  
Lift Nosewheel..... WHEN ABLE  
Accelerate in G.E..... TO 70 KIAS  
Brakes ..... APPLY when airborne  
Landing Gear..... RETRACT  
Climb Airspeed (V<sub>y</sub>)..... 80 KIAS

## SHORT-FIELD TAKEOFF

Flaps..... UP  
Carburetor Heat..... OFF  
Cowl Flaps..... OPEN  
Brakes ..... HOLD  
Throttle ..... FULL  
Brakes ..... RELEASE  
Rotate..... 60 KIAS  
Obstacle Climb A/S (V<sub>x</sub>)..... 65 KIAS  
Brakes ..... APPLY when airborne  
Landing Gear..... RETRACT

## NORMAL CLIMB

Airspeed ..... 85 to 95 KIAS  
Throttle ..... 25 in MP  
Propeller ..... 2500 RPM

## CRUISE

Throttle ..... 15 to 25 in MP  
Propeller ..... 2100 to 2500 RPM  
Cowl Flaps..... CLOSED  
Elevator Trim ..... ADJUSTED  
Mixture..... SET FOR ALTITUDE  
Engine Gages..... CHECK  
Directional Gyro..... SET TO COMPASS  
Autopilot ..... AS REQUIRED  
Flight Plan ..... VERIFY AND OPEN

## DESCENT

Throttle ..... 2500 RPM (Max)  
Mixture ..... ADJUST AS REQUIRED  
Altimeter ..... SET  
Fuel Selector Valve..... BOTH  
Wing Flaps..... AS DESIRED  
Carburetor Heat..... ON  
Cowl Flaps..... CLOSED

## BEFORE LANDING

Cowl Flaps..... CLOSED  
Carburetor Heat..... ON  
Fuel (Gas)..... BOTH  
Undercarriage..... DOWN AND LOCKED  
Landing Gear..... CHECK  
Mixture..... SET  
Propeller ..... HIGH RPM  
Power ..... SET  
Seats & Seatbelts ..... CHECK & ADJUST  
Switches (lights, etc)..... AS DESIRED  
Autopilot..... OFF

## LANDING

Downwind ..... 90 KIAS / FLAPS 10°  
Base Leg ..... 80 KIAS / FLAPS 20°  
Final Leg.... 70 KIAS / FLAPS AS DESIRED  
Landing Gear..... DOWN

## GO-AROUND

Throttle ..... FULL  
Carburetor Heat..... OFF  
Flaps..... RETRACT TO 20°  
Climb Airspeed ..... 60 KIAS  
Flaps..... RETRACT at 65 KIAS  
Cowl Flaps..... OPEN

## AFTER LANDING

Cowl Flaps..... OPEN  
Flaps..... RETRACT  
Carburetor Heat..... OFF  
Lights ..... AS REQUIRED  
Transponder ..... STANDBY  
Ground Clearance ..... OBTAIN

## SHUTDOWN & SECURE

1. Fuel Quantity ..... NOTE
2. Avionics Master ..... OFF
3. Mixture ..... LEAN CUTOFF
4. Magnetos ..... OFF (Keys on panel)
5. Elec Equip..... OFF (except BEACON)
6. Master Switch ..... OFF
7. Control Lock..... INSTALL
8. Fuel Selector Valve..... LEFT or RIGHT
9. Hobbs & Tach Times ..... NOTE
10. Sunscreen..... INSTALL
11. Wheels..... CHOCK
12. Tiedowns ..... SECURE
13. Cowl Plugs..... INSTALL
14. Engine Heater..... PLUG IN (in Winter)
15. Flight Plan..... CLOSE

## MANUAL GEAR EXTENSION

Gear Light / Circuit Breaker..... CHECK  
Airspeed..... BELOW 140 KIAS  
Landing Gear ..... DOWN  
Emergency Gear Handle..... EXTEND  
..... Pump 35 times  
Landing Gear Light ..... GREEN

## Telephone Numbers

Colorado Flight Center.....970 254 0444  
Flight Service.....800 992 7433  
KGJT ATIS .....970 245 7881  
KGJT Tower .....970 986 3351  
West Star Desk.....970 248 5215  
Monument Aircraft .....970 257 9175  
TriStar Aviation.....970 255 1501

## GRAND JUNCTION AREA RADIO COMMUNICATIONS FREQUENCIES

KGJT ATIS..... 118.55  
KGJT Ground ..... 121.70  
KGJT Tower ..... 118.10  
Denver Approach / Departure..... 119.70  
Denver Center ..... 134.50  
Denver Radio.....122.60 or 122.20

## GRAND JUNCTION AREA NAVIGATION STATION FREQUENCIES

JNC VOR..... 112.40  
ILS Rwy 11 ..... 110.30  
LDA Rwy 29 ..... 109.70

## AIRCRAFT SPEEDS

V<sub>A</sub>.....89 to 106 KIAS  
V<sub>FE</sub>..... 100 KIAS  
V<sub>NO</sub> ..... 145 KIAS  
V<sub>NE</sub>..... 164 KIAS  
V<sub>S1</sub>.....48 KIAS  
V<sub>S0</sub>.....40 KIAS  
V<sub>X</sub>.....65 KIAS  
V<sub>Y</sub>.....80 KIAS  
**Best Glide ..... 75 KIAS**

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If you are unable to return to Grand Junction when expected, please call us toll-free at 1-866-897-7910 to advise us of your new ETA.

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