

## C-GXRL CHECKLIST 1978 CESSNA 172N



### OPERATING NOTES

1. MASTER SWITCH is a Split-Rocker Switch:
  - a. RIGHT Rocker is the MASTER SW
  - b. LEFT Rocker is the ALT SW
  - c. Avionics SW is also a circuit breaker protecting the Avionics Bus.
  - d. This Checklist provides proper sequencing of the switches.
2. This aircraft is a 28-volt, DC electrical system that includes a 24-volt battery.
3. No Acrobatics approved.
4. SPINs with Flaps extended, baggage loads or occupied rear seats are prohibited.
5. Flight into known Icing Conditions is prohibited.
6. **CAUTION: CARB HEAT** must be **ON** before throttle is retarded to Idle on all landings.
7. **WARNING: DO NOT** Takeoff with snow, ice or frost on wing and tail surfaces.

### DISCLAIMER

This Checklist for reference only.  
Information within this Checklist is superseded by the applicable POH, Tech data, STCs and other current aircraft-specific documents.  
Use this Checklist at your own Risk.

## C-GXRL CHECKLIST 1978 CESSNA 172N

### CROSS-COUNTRY FLY AWAY KIT

JOURNEY LOG BINDER  
FLIGHT PUBS/MAPS  
FUEL CUP  
ENGINE OIL: TAKE 2 QUARTS  
OIL FUNNEL  
TOW BAR  
FRONT ENGINE COVERS  
METAL CHOCKS  
ENG EXHAUST PLUGS

### PASSENGER BRIEFING

1. FRONT SEAT OPERATION SEATBELT USE
  2. OPERATON OF DOORS
  3. EMERGENCY EXIT PROCEDURE – ALWAYS TOWARD BACK OF AIRCRAFT
  4. SICK BAGS LOCATION – BEHIND FRONT RIGHT SEAT
  5. NO SMOKING/OTHER
  6. FRONT RIGHT SEAT PAX – CLEAR OF CONTROLS AND RUDDER PEDALS
  7. AIR VENTS & CABIN HEAT – LOCATION & OPERATION
  8. FIRST AID KIT LOCATION
  9. FIRE EXTINGUISHER LOCATION & USE
  10. ELT “ON” SWITCH – FOLLOWING CRASH LANDING OR DITCHING
  11. HEADSET & INTERCOM USE
  12. LOOSE ITEMS SECURED FOR T/O AND LANDING
- QUESTIONS?

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### SPEEDS (Knots)

Vs (Flaps Full Down).....41  
Vs (Flaps Up).....47  
Vr.....59  
Vx (Max Angle) .....59  
Vy (Max Rate) .....73  
Vfe (10° Flap) .....110  
    (Max Flap) .....85  
Enroute Climb.....75-85  
V<sub>A</sub> maneuvre (1950lbs).....89  
V<sub>NO</sub> .....128  
Vne.....160  
Best Glide (Flaps UP) .....65  
Best Glide (Flaps DOWN) ...60  
Approach (Flaps up).....60-70  
Approach (Flaps 40°) ....55-65  
Short Field Approach:  
    Airspeed (Flaps 40°) ....60

### SPECS & LIMITS

G Limits:  
    Flaps Up ...+3.8 to -1.52  
    Flaps Dn...+3.0  
Max Gross Weight.....2550 lbs  
Fuel Capacity 50 USG(301 lbs)  
Empty Weight + 50 USG fuel:  
    1481 lbs + 301 lbs = 1782 lbs  
Max weight Pax + Baggage:  
    2550 lbs – 1782 lbs = 768 lbs  
Max Baggage .....120 lbs  
Tires .....NOSE 31 PSI  
    .....MAIN 29 PSI

### PREFLIGHT

Weight & Balance..COMPLETE  
POH .....IN COCKPIT  
Hobbs.....RECORD  
Primer .....LOCKED  
Master SW .....OFF  
ALT SW .....OFF  
Ignition SW .....OFF  
Avionics SW .....OFF  
Circuit Breakers .....ALL IN  
Taxi Light .....OFF  
Landing Light .....OFF  
Pitot Heat SW .....OFF  
NAV/BCN Lights .....OFF  
Strobe Light .....OFF  
Carb Heat ..... IN/COLD  
Throttle .....IDLE  
Fuel Mixture .....FULL LEAN  
Panel/Radio Light ..... OFF  
Alt Static Air .....IN  
Flaps .....UP  
Cabin Heat ..... FULL IN  
Cabin Air .....FULL IN  
Garmin 340 .....OFF  
Parking Brake .....AS REQ  
Trim .....SET TAKEOFF  
Master SW .....ON  
Fuel Quantity.....CHECK  
Exterior Lights .....CHECK  
Pitot Heat....CHECK THEN OFF  
Master SW .....OFF  
Control Lock .....REMOVE

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### EXTERIOR INSPECTION

Walk Around .....CONDUCT  
Tie Downs .....REMOVE  
Gust Locks .....REMOVE  
Baggage Door .....LOCKED  
Control Surfaces .....CHECK  
Tires .....NOSE - 31 PSI  
    MAIN - 29 PSI  
Fuel Tank Sumps .....CHECK  
    FOR WATER/SEDIMENT  
Fuel Level ....CHECK VISUALLY  
Fuel Caps .....SECURE  
Oil Level .....4 QT MIN  
Strainer Drain .....PULL 4 SEC  
    CHECK FOR  
    WATER/SEDIMENT  
Prop & Spinner ..... CHECK  
Carb Air Filter.....CHECK  
Static Source .....CHECK  
Pitot Tube .....CHECK  
Stall Warning Vent .....CHECK  
Chocks .....REMOVE

### ENGINE START

Seats Belts .....SECURED  
Brakes .....TEST & SET  
Fuel Selector Valve .....BOTH  
Mixture .....RICH  
Carb Heat .....IN/COLD  
Master/ALT SW .....ON  
Avionics SW .....CONFIRM OFF  
BCN .....ON

Primer .....2-6 SROKES  
Throttle .....1/8 INCH OPEN  
Prop Area .....CLEAR  
Ignition SW ...START/RELEASE  
Oil Pressure .....CHECK

### BEFORE TAXI CHECK

Avionics SW .....ON  
NAV Lights .....ON  
Strobe Light .....ON  
Garmin 340 .....ON  
Radio/NAV Aids.....SELECT  
Transponder .....STBY  
ATIS .....OBTAIN  
Altimeter .....SET  
Attitude Indicator .....LEVEL  
S-TEC 40 .....PRE-FLIGHT  
Brakes .....CHECK ON TAXI

### RUNUP CHECK

Brakes .....SET  
Fuel Selector.....BOTH  
Mixture .....RICH  
Throttle.....1700 RPM  
Magnetos.....CHECK  
    (max drop 125 / diff 50)  
Mixture .....LEAN TO  
    RPM/EGT CHANGE  
    THEN RICH  
Carb Heat ....CHECK FOR RPM  
    DROP  
Engine Instruments ....CHECK  
Ammeter ..... CHECK  
Suction Gage ..... 4.6" to 5.4"  
Throttle .....IDLE CHECK

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### BEFORE TAKEOFF CHECK

Flaps .....UP  
Trims .....SET FOR TAKEOFF  
Flight Controls.....FREE  
Doors & Windows ....LATCHED  
Carb Heat .....COLD  
Throttle Friction Lock..ADJUST  
Mixture .....RICH  
NAV Aids .....SET FOR FLT  
Transponder .....ALT  
Pitot Heat .....AS REQ  
Landing Light .....ON

### TAKEOFF

G5 HSI .....RWY HDG  
ILS LOC .....CENTRED  
Throttle.....Full OPEN  
Rotate.....55 KTS  
Climb.....70-80 KTS  
Enroute Climb .....70-85 KTS  
Time Up.....NOTE

### TAKE OFF - MAX PERFORM

Flaps .....UP  
Carb Heat .....COLD  
Brakes .....HOLD  
Throttle .....FULL  
Mixture .....RICH  
Brakes .....RELEASE  
Elevator ..SLIGHTLY TAIL LOW  
Climb .....59 KTS UNTIL  
CLEAR OF OBSTACLES

### LEVEL OFF & CRUISE

Throttle .....2000-2700 RPM  
Trims.....ADJUST  
Mixture.....ABOVE 3000 FT  
LEAN TO MAX RPM  
Fuel Quantity .....CHECK  
Engine Gauges.....CHECK  
Ammeter .....CHECK  
Heading Indicator.....CHECK  
Landing Light.....OFF

### PRE-DESCENT

Fuel Quantity .....VERIFY  
Fuel Selector .....BOTH  
Engine Gauges .....NORMAL  
Ammeter .....CHECK  
Mixture.....ADJUST  
Power.....AS DESIRED  
Carburetor Heat.....AS REQ  
Altimeter.....SET  
Heading Indicator.....CHECK  
Landing Light .....ON  
Pitot Heat .....AS REQ  
Cabin Heat/Demister ..AS REQ  
Seat Belts .....SECURE

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### APPROACH & LANDING

Mixture .....RICH  
Carb Heat .....ON BEFORE  
CLOSING THROTTLE  
Airspeed .....60-70 KTS  
Flaps .....AS DESIRED  
110 KTS – 0° to 10°  
85 KTS – 0° to 40°  
Airspeed .....55-65 KTS  
FLAPS DOWN  
Touch Down ....MAIN WHEELS  
FIRST  
Landing Roll .....LOWER NOSE  
WHEEL GENTLY  
Braking .....MIN REQUIRED

### SHORT FIELD LANDING

Airspeed .....60-70 KIAS  
Flaps .....FULL DOWN  
Airspeed .....60 KIAS UNTIL  
FLARE  
Power .....IDLE AFTER  
CLEARING OBSTACLES  
Touch Down ....MAIN WHEELS  
FIRST  
Brakes .....APPLY HEAVILY  
Flaps .....UP

### GO-AROUND

Throttle.....FULL OPEN  
Carb Heat .....COLD  
Flaps ..... 20° IMMEDIATELY  
Climb Speed .....55 KIAS  
Flaps ....10° UNTIL OBSTACLES  
ARE CLEAR  
Flaps .....RETRACT AT SAFE  
ALTITUDE  
Airspeed .....60 KIAS

### AFTER LANDING

Transponder.....STBY  
Pitot Heat .....OFF  
Landing Light.....OFF  
Carb Heat .....COLD/IN  
Flaps.....UP  
Trims .....RESET FOR T/O  
Time Down .....NOTE

### SHUTDOWN

Taxi/NAV Lights .....OFF  
Strobe .....OFF  
GARMIN 340 .....OFF  
Transponder .....OFF  
Avionics SW .....OFF  
Throttle .....1000 RPM  
Mags .....DEAD MAG CHECK  
Throttle.....IDLE  
Mixture.....CUTOFF  
Ignition.....OFF  
Master & ALT SW .....OFF  
Hobbs .....RECORD  
Control Lock .....INSTALL  
Doors/Windows.....LOCKED  
Tie-Downs.....SECURE  
Flight Plan.....CLOSE

## C-GXRL CHECKLIST 1978 CESSNA 172N

### ENGINE FAILURE DURING TAKEOFF

Throttle .....IDLE  
Brakes .....APPLY  
Flaps .....UP  
Mixture .....CUTOFF  
Ignition SW .....OFF  
Master/ALT .....OFF

### ENGINE FAILURE AFTER TAKEOFF

Airspeed Flaps UP ..... 65 KIAS  
Flaps DN .....60 KIAS  
Mixture .....CUTOFF  
Fuel Selector .....OFF  
Ignition SW .....OFF  
Flaps .....AS REQ  
Master/Alt SW .....OFF

### ENGINE FAILURE IN FLIGHT

Airspeed .....65 KIAS  
Carb Heat .....ON  
Fuel Selector .....BOTH  
Mixture .....RICH  
Ignition .....BOTH  
Primer .....IN & LOCKED

### FORCED LANDING

Airspeed Flaps UP ..... 65 KIAS  
Flaps DN .....60 KIAS  
Mixture .....CUTOFF  
Fuel Selector .....OFF  
Ignition SW .....OFF  
Flaps .....AS REQ  
(40° RECOMMENDED)  
Master/ALT SW .....OFF  
Doors .....UNLATCHED BEFORE  
TOUCHDOWN  
Touchdown .....TAIL LOW  
Brakes .....APPLY HEAVILY

### PRECAUTIONARY LANDING WITH ENGINE POWER (SEE POH, PAGE 3-4)

### DITCHING (SEE POH, PAGE 3-5)

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### ENGINE FIRE ON START

Engine .CONTINUE CRANKING  
IF ENGINE STARTS:  
Throttle .....1700 RPM  
For a few minutes  
Engine .....SHUT DOWN  
IF NO START:  
Engine .CONTINUE CRANKING  
Throttle .....FULL OPEN  
Mixture .....CUTOFF  
Master SW .....OFF  
Ignition .....OFF  
Fuel Selector .....OFF  
Fire .....EXTINGUISH  
INSPECT FOR DAMAGE

### ENGINE FIRE IN FLIGHT

Mixture .....CUTOFF  
Fuel Selector .....OFF  
Master/ALT SW .....OFF  
Cabin Heat/Air .....CLOSE  
Airspeed .....100 KIAS OR AS  
NECESSARY TO  
EXTINGUISH FIRE  
Forced Landing .....EXECUTE

### ELECTRICAL FIRE IN FLIGHT

Master/ALT SW .....OFF  
Avionics SW .....OFF  
All Electric SW .....OFF  
Ignition .....BOTH

Cabin Heat/Air .....CLOSE  
Fire Extinguisher .....IF REQ  
LAND AS SOON AS POSSIBLE  
If Fire Appears Out,  
And Electrics are necessary:  
Master/Alt .....ON  
Circuit Breakers .....CHECK  
DO NOT RESET  
Radio/NAV SW .....OFF  
Avionics SW .....ON  
Radio & Necessary Electrics:  
ON INDIVIDUALLY with DELAY  
CHECK FOR SHOT CIRCUIT  
VENTILATE CABIN

### CABIN FIRE

Master/Alt SW .....OFF  
Vents/Cabin Air/Heat ...CLOSE  
Fire Extinguisher .....ACTIVATE  
LAND AS SOON AS POSSIBLE

### WING FIRE

Pitot Heat .....OFF  
NAV Lights .....OFF  
Strobe Light .....OFF  
Landing Light .....OFF  
SIDESLIP TO KEEP FLAMES  
AWAY FROM FUEL TANK &  
CABIN

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## ICING

Pitot Heat .....ON  
 Turn Back or Change Altitude  
 Cabin Heat/Defrost .FULL OUT  
 Throttle ....OPEN TO INCREASE  
 ENGING SPEED & MINIMIZE  
 ICE BUILDUP ON PROPS  
 Carb Heat .....AS REQ  
 Refer to POH .....PAGE 3-7

## STATIC SOURCE BLOCKAGE

Alternate Static Source ..PULL  
 Airspeed ...See POH PAGE 5-9

## LANDING FLAT MAIN TIRE

Approach .....NORMAL  
 Touchdown .GOOD TIRE FIRST  
 HOLD AIRPLANE OFF FLAT  
 TIRE AS LONG AS POSSIBLE.

## HIGH VOLTAGE LIGHT ILLUMINATES IN FLIGHT

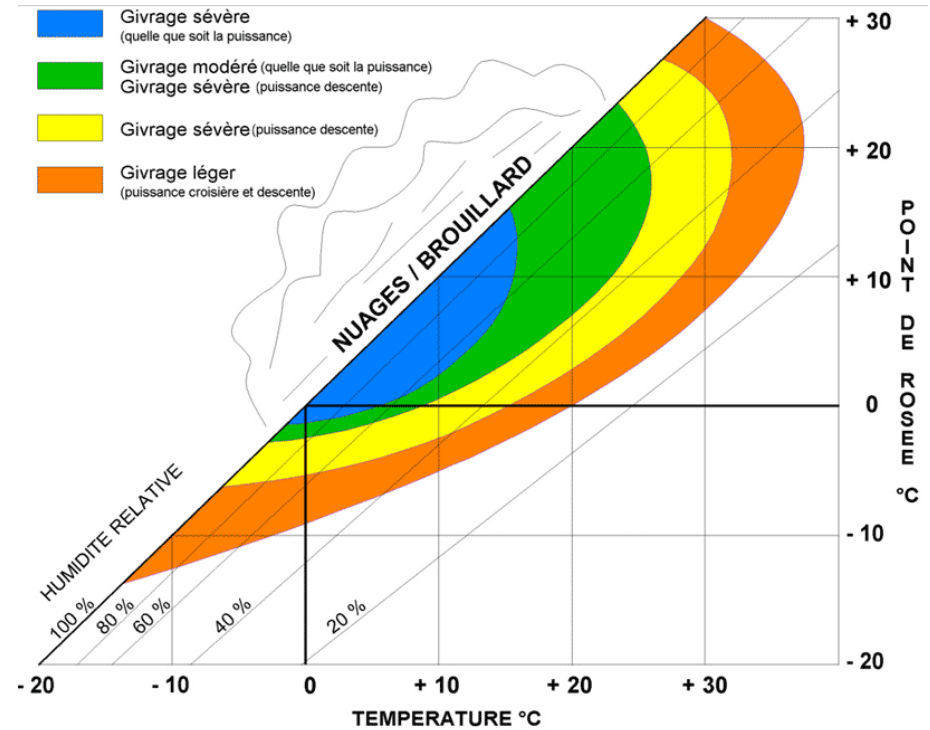
Avionics SW .....OFF  
 Master/Alt SW .....OFF  
 Master/Alt SW .....ON  
 Hi-Voltage Light ....CHECK OFF  
 Avionics SW .....ON  
 If Hi-Voltage Light illuminates  
 again:  
 Land as soon as practicable.  
 Non-Essential Electrics .....OFF

## AMMETER DISCHARGE IN FLIGHT

Alt SW .....OFF  
 Non-Essential Electrics .....OFF  
 Land as soon as practicable.

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## GIVRAGE de CARBURATEUR



# CRUISE PERFORMANCE

CONDITIONS:  
2300 Pounds  
Recommended Lean Mixture

PRESSURE ALTITUDE FT	RPM	20°C BELOW STANDARD TEMP			STANDARD TEMPERATURE			20°C ABOVE STANDARD TEMP		
		% BHP	KTAS	GPH	% BHP	KTAS	GPH	% BHP	KTAS	GPH
2000	2500	---	---	---	75	116	8.4	71	115	7.9
	2400	72	111	8.0	67	111	7.5	63	110	7.1
	2300	64	106	7.1	60	105	6.7	56	105	6.3
	2200	56	101	6.3	53	100	6.1	50	99	5.8
	2100	50	95	5.8	47	94	5.6	45	93	5.4
4000	2550	---	---	---	75	118	8.4	71	118	7.9
	2500	76	116	8.5	71	115	8.0	67	115	7.5
	2400	68	111	7.6	64	110	7.1	60	109	6.7
	2300	60	105	6.8	57	105	6.4	54	104	6.1
	2200	54	100	6.1	51	99	5.9	48	98	5.7
2100	48	94	5.6	46	93	5.5	44	92	5.3	
6000	2600	---	---	---	75	120	8.4	71	120	7.9
	2500	72	116	8.1	67	115	7.6	64	114	7.1
	2400	64	110	7.2	60	109	6.8	57	109	6.4
	2300	57	105	6.5	54	104	6.2	52	103	5.9
	2200	51	99	5.9	49	98	5.7	47	97	5.5
2100	46	93	5.5	44	92	5.4	42	91	5.2	
8000	2650	---	---	---	75	122	8.4	71	122	7.9
	2600	76	120	8.6	71	120	8.0	67	119	7.5
	2500	68	115	7.7	64	114	7.2	60	113	6.8
	2400	61	110	6.9	58	109	6.5	55	108	6.2
	2300	55	104	6.2	52	103	6.0	50	102	5.8
2200	49	98	5.7	47	97	5.5	45	96	5.4	
10,000	2650	76	122	8.5	71	122	8.0	67	121	7.5
	2600	72	120	8.1	68	119	7.6	64	118	7.1
	2500	65	114	7.3	61	114	6.8	58	112	6.5
	2400	58	109	6.5	55	108	6.2	52	107	6.0
	2300	52	103	6.0	50	102	5.8	48	101	5.6
2200	47	97	5.6	45	96	5.4	44	95	5.3	
12,000	2600	68	119	7.7	64	118	7.2	61	117	6.8
	2500	62	114	6.9	58	113	6.5	55	111	6.2
	2400	56	108	6.3	53	107	6.0	51	106	5.8
	2300	50	102	5.8	48	101	5.6	46	100	5.5
	2200	46	96	5.5	44	95	5.4	43	94	5.3

Figure 5-7. Cruise Performance