## C172N - Long Island Flying

11 Flight Instruments ---- CHECK

(revised 05/31/2020)

(training purposes only - see appropriate POH for official procedures)

PASSENGER BRIEFING	PRE-TAKEOFF RUN-UP	
1 Seats & Seat Belts	1 Brakes	as required
2 Head Sets	2 Doors / Windows	-
3 Doors & Evacuation	3 Controls	FREE
4 Traffic - Vents - Motion Sickness	4 Primer	LOCKED
	5 Fuel Quantity	NOTE
	6 Mixture	
PRE-START	7 Elevator Trim	T/O
1 Pre-Flight DONE	8 Fuel Selector	BOTH
2 Seats & Beltsas required	9 Throttle	
3 Doors / Windows SECURE	10 Engine Gauges	-
4 Controls Free/Correct	11 Ammeter	
5 Avionics OFF	12 Suction Gauge	CHECK
6 Circuit Breakers IN	13 Mag CHECK	
7 Alternate Static OFF	14 Carb heat	
8 Fuel Selector BOTH	15 Throttle	IDLE
	16 Carb heat	OFF
STARTING ENGINE	17 Throttle	1000 rpm
1 Carb heatOFF	18 Throttle Friction	ADJUST
2 MixtureRICH		
3 Primer (clockwise) 2x or 1x (if warm)	TAKEOFF BRIEFING (TY	PE-WINDS-RNWY)
4 Battery MasterON	V-speeds (V <sub>R</sub> - 55, V <sub>Y</sub> -	73, Vx - 59)
5 Beacon & Strobes ON	Emergencies - Best Glid	
6 Propeller AreaCLEAR	_	
7 Toe BrakesHOLD	HOLDING SHORT	
8 Throttle OPEN 1/8th	1 Radios (coms, nav, gps)	SET
	2 Flight Instruments	CHECK
9 Ignition START	3 Seat, belts, doors	SECURE
10 Throttle 1000 rpm	4 Primer	LOCKED
11 Oil PressureCHECK	5 Key	BOTH
12 Ammeter CHECK	6 Lights	as required
	7 Carb heat	OFF
PRE-TAXI & TAXI	8 Mixture	as required
1 FlapsUP	9 Flaps	as required
2 Mixtureas required	10 Transponder	as required
3 Nav Lights (ADSB?) - as required	11 Final approach	CLEAR
4 Other Lights as required		
5 AvionicsON	CLEARING MAGNETOS	
6 ATISRECORDED	1 Key	Both
7 Instruments SET	2 Throttle (hold brakes)	2200
8 ClearanceRECORDED	3 Mixture-Lean (30 Sec) ->	Rich
9 X-ponder as required	4 Throttle	1700
10 Brakes CHECK	5 Magnetos	CHECK
A TOUR AS TO SEE A SECOND COMMON COMM		

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500' CHECK		AFTER LANDING	
1 Engine Gauges		1 Carb heat	
2 Flaps		2 Transponder	
3 Clear Area	CHECK	3 Flaps	
		4 Lights (ldg / taxi)	as required
1000' CHECK			
1 Landing Light		ENGINE SHUT DOWN	
2 Cruise Climb	70-85	1 Avionics	
		2 Magnetos	
CRUISE CHECK		3 Throttle	
1 Power		4 Mixture	
2 Trim	_	5 Ignition Key	
3 Lights		6 Lights	_
4 Fuel Selector		7 Battery Master	OFF
5 Mixture (lean)	>3000' only		_
D = 0 C = 1 = 1		BEFORE YOU GO HOM	
DESCENT		1 Hobbs & Tach	
1 ATIS		2 Battery Master	
2 Inst & avionics		3 Avionics or Radios	
3 Throttle	_	4 Control Lock	
4 Mixture	•	5 Seat Belts	
5 Carb heat	as required	6 Belongings	
		7 Cowl Plugs	
PRE-LANDING		8 Doors & Baggage	
1 Fuel Selector		9 Tie downs/Chocks	
2 Mixture		10 Rudder Lock	
3 Carb heat		11 Ladders	Secured
4 Ignition			. ~
5 Primer		V-SPEED	
6 Seat Belts		Vne - 160, Vnc	
7 Lights	as required	VA (2300lbs)	
		VFE (Flaps 10)	
		VFE (Flaps 10-40)	
			s - 47
			0 - 41
POWER UP & carb heat off PITCH UP (55kts initially) CLEAN UP - flaps 20* & 55kts		Vx (Flaps 10*+)	
		Vx (Flaps up)	
			y - 73
			R - 55
m		Best Glide (no flaps)	
TALK UP		Approach	
Verify Aircraft is Cleaned up		X-wind component	
? Sidestep runway for visibility		Useable Fuel (100LL)	- 40 of 43

STATIC SOURCE BLOCKED

Airspeed - see table in Sec 5

Else - Break VSI

Alternate Static-ON (if equipped)

Increase Throttle (propeller icing)

(Sacrifice altitude for airspeed)

(training purposes only - see appropriate	. For for official procedures)
NGINE FAILURE	ENGINE FIRE - IN FLIGHT
SPEED BEST GLIDE / TRIM	MixtureICO
<b>SPOT</b> LANDING AREA	Fuel Shut-off CLOSED
SPEC	Battery Master OFF
Primer In & LOCKED	Cabin Heat OFF
Ignition VERIFY BOTH	Airspeed 100 kts
Carb heatON	Prepare for Forced Landing
Mixture RICH	Emergency Descent Consider
Fuel-shutoff VERIFY ON	
Ignition CYCLE MAGS	FIRE - ELECTRICAL
If restart successful:	Battery Master OFF
Oil pressure CHECK	AvionicsOFF
Oil temp CHECK	All switches OFF
Electrical equip as required	Vents, Air, & Heat CLOSED
If restart NOT successful:	Fire Extinguisher Consider
	Emergency Descent Consider
ORCED LANDING	
Distress call - 121.5	If extinguished & power is needed
- Who, Where, # on board	Vents (open when fire is out)
- "Committed to landing"	Battery Master ON
Transponder 7700	Circuit Breakers CHECK
Seat belt/harness Tight	Radio Switches OFF
	AvionicsON
NGINE SECURING	Radio switches ON (1x1)
Fuel shut-off OFF	Land as soon as possible
MixtureICO	
Ignition OFF	FIRE - IN CABIN
Prior to impact	Battery Master OFF
Flaps as required	Cabin Air OPEN
Battery Master OFF	Cabin Heat CLOSED
Door latches as required	Fire Extinguisher as required
	Land ASAP
OSS OF OIL PRESSURE	
X-CHECK Oil Temp	ICING
If NORMAL - Land ASAP	Leave area (turn, climb, descend)
If <b>RISING</b> - Reduce throttle to	Pitot HeatON
minimum required - Land ASAP	Carb heatON
Prepare for engine failure	Cabin heatON
	Move control surfaces

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### C172N - Long Island Flying (training purposes only - see appropriate POH for official procedures)

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VER-VOLTAGE LIGHT	LOSI COMINIS
(Cross-check Ammeter)	Radio ON; Volume Set;
Avionics Master OFF	Correct frequency / alternates;
Battery Mstr (both) OFF	Circuit Breakers; alternator;
Battery MasterON	Mike / headset plugs
Over-Voltage Light OFF ?	Range location;
Avionics Master ON	Last ATC Alternate radio;
	Cell Phone
If light re-illuminates, Land ASAP	

#### If still not working -**Ammeter Shows Discharge** Transponder - 7600

Alternator ----- OFF Backup Radio/Elec --- OFF Land ASAP -

### SPIN RECOVERY

**OVEI** 

Power -----IDLE Aileron -----NEUTRAL Rudder -----Fully Opposite Elevator ----- Briskly Forward After rotation has stopped Rudder - NEUTRALIZE Elevator - EASE BACK

## LIGHT GUN SIGNALS

	Ground	Air
Stdy Green -	Clrd takeoff	<ul> <li>Clrd to land</li> </ul>
Flash Green -	Clrd to taxi	<ul> <li>Clrd for app</li> </ul>
Stead Red		- Give way-cir
Flash Red -	- Clr rwy	<ul> <li>Don't Land</li> </ul>
ii toa / giii	<ul> <li>Caution</li> </ul>	<ul> <li>Caution</li> </ul>
Flsh White -	Return	

Maintain VFR - land ASAP

DAY - rock wings if receiving

NIGHT - flash lights if receiving

#### **ENGINE FIRE - START UP**

Continue to crank engine

#### If engine starts:

Throttle - 1700 rpm

Shutdown - Inspect for damage

#### If engine fails to start:

Throttle **FULL** Mixture ICO Fuel Shut-off CLOSED Continue to crank engine

**Battery Master OFF Ignition Switch** OFF

**Evacuate Airplane Immediately** 

#### **DIVERT to ALTERNATE**

A - Alternate airport

B - Best guess heading

C - Change Altitude

D - Distance

E - Estimate time & fuel

F - Flight Plan & ATC

G - Ground (close flight plan)

### LOST PROCEDURES

Confess (to yourself) Control / Circle (last known...) Climb

Cross Radials

Communicate to ATC Comply

Conserve (fuel)