C172N - Long Island Flying PASSENGE P

(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	SECURE		
3 Doors & Evacuation		3 Controls	FREE		
4 Traffic - Vents - Motion Sickness		4 Primer	LOCKED		
		5 Fuel Quantity	NOTE		
		6 Mixture	RICH		
PRE-START		7 Elevator Trim	T/O		
1 Pre-Flight	- DONE	8 Fuel Selector	BOTH		
2 Seats & Belts	- as required	9 Throttle	1700 rpm		
3 Doors / Windows	- SECURE	10 Engine Gauges	CHECK		
4 Controls	- Free/Correct	11 Ammeter			
5 Avionics	OFF	12 Suction Gauge	CHECK		
6 Circuit Breakers	IN	13 Mag CHECK	<125 & 50		
7 Alternate Static	- OFF	14 Carb heat	ON (drop)		
8 Fuel Selector	- BOTH	15 Throttle	IDLE		
		16 Carb heat	OFF		
STARTING ENGINE		17 Throttle	1000 rpm		
1 Carb heat	OFF	18 Throttle Friction	ADJUST		
2 Mixture	RICH				
3 Primer (clockwise)	2x or 1x (if warm)	TAKEOFF BRIEFING (TY	PE-WINDS-RWY)		
4 Battery Master ON		V -speeds (V_R - 55, V_Y - 73, V_X - 59)			
5 Beacon & Strobes ON		Emergencies - Best Glide 65			
5 Beacon & Strobes	- ON	Emergencies - Best Glide	e 65		
5 Beacon & Strobes 6 Propeller Area		Emergencies - Best Glide	e 65		
	CLEAR	Emergencies - Best Glide HOLDING SHORT	e 65		
6 Propeller Area	CLEAR HOLD	_			
6 Propeller Area7 Toe Brakes	CLEAR HOLD	HOLDING SHORT	SET		
6 Propeller Area7 Toe Brakes	CLEAR HOLD OPEN 1/8th	HOLDING SHORT 1 Radios (coms, nav, gps)	SET CHECK		
6 Propeller Area7 Toe Brakes8 Throttle	CLEAR HOLD OPEN 1/8th START	HOLDING SHORT 1 Radios (coms, nav, gps) 2 Flight Instruments	SET CHECK SECURE		
6 Propeller Area 7 Toe Brakes 8 Throttle 9 Ignition	CLEAR HOLD OPEN 1/8th START 1000 rpm	HOLDING SHORT 1 Radios (coms, nav, gps) 2 Flight Instruments 3 Seat, belts, doors	SET CHECK SECURE LOCKED		
6 Propeller Area 7 Toe Brakes 8 Throttle 9 Ignition 10 Throttle	CLEAR HOLD OPEN 1/8th START 1000 rpm CHECK	HOLDING SHORT 1 Radios (coms, nav, gps) 2 Flight Instruments 3 Seat, belts, doors 4 Primer	SET CHECK SECURE LOCKED BOTH		
6 Propeller Area 7 Toe Brakes 8 Throttle 9 Ignition 10 Throttle 11 Oil Pressure	CLEAR HOLD OPEN 1/8th START 1000 rpm CHECK	HOLDING SHORT 1 Radios (coms, nav, gps) 2 Flight Instruments 3 Seat, belts, doors 4 Primer 5 Key	SET CHECK SECURE LOCKED BOTH as required		
6 Propeller Area 7 Toe Brakes 8 Throttle 9 Ignition 10 Throttle 11 Oil Pressure	CLEAR HOLD OPEN 1/8th START 1000 rpm CHECK	HOLDING SHORT 1 Radios (coms, nav, gps) 2 Flight Instruments 3 Seat, belts, doors 4 Primer 5 Key 6 Lights	SET CHECK SECURE LOCKED BOTH as required OFF		
6 Propeller Area 7 Toe Brakes 8 Throttle 9 Ignition 10 Throttle 11 Oil Pressure 12 Ammeter	CLEAR HOLD OPEN 1/8th START 1000 rpm CHECK CHECK	HOLDING SHORT 1 Radios (coms, nav, gps) 2 Flight Instruments 3 Seat, belts, doors 4 Primer 5 Key 6 Lights 7 Carb heat	SET CHECK SECURE LOCKED BOTH as required OFF as required		
6 Propeller Area 7 Toe Brakes 8 Throttle 9 Ignition 10 Throttle 11 Oil Pressure 12 Ammeter PRE-TAXI & TAXI	CLEAR HOLD OPEN 1/8th START 1000 rpm CHECK CHECK	HOLDING SHORT 1 Radios (coms, nav, gps) 2 Flight Instruments 3 Seat, belts, doors 4 Primer 5 Key 6 Lights 7 Carb heat 8 Mixture	SET CHECK SECURE LOCKED BOTH as required OFF as required		
6 Propeller Area 7 Toe Brakes 8 Throttle 9 Ignition 10 Throttle 11 Oil Pressure 12 Ammeter PRE-TAXI & TAXI 1 Flaps	CLEAR HOLD OPEN 1/8th START 1000 rpm CHECK CHECK UP as required	HOLDING SHORT 1 Radios (coms, nav, gps) 2 Flight Instruments 3 Seat, belts, doors 4 Primer 5 Key 6 Lights 7 Carb heat 8 Mixture 9 Flaps	SET CHECK SECURE LOCKED BOTH as required OFF as required as required		
6 Propeller Area 7 Toe Brakes 8 Throttle 9 Ignition 10 Throttle 11 Oil Pressure 12 Ammeter PRE-TAXI & TAXI 1 Flaps 2 Mixture	CLEAR HOLD OPEN 1/8th START 1000 rpm CHECK CHECK UP as required as required	HOLDING SHORT 1 Radios (coms, nav, gps) 2 Flight Instruments 3 Seat, belts, doors 4 Primer 5 Key 6 Lights 7 Carb heat 8 Mixture 9 Flaps 10 Transponder	SET CHECK SECURE LOCKED BOTH as required OFF as required as required		
6 Propeller Area 7 Toe Brakes 8 Throttle 9 Ignition 10 Throttle 11 Oil Pressure 12 Ammeter PRE-TAXI & TAXI 1 Flaps 2 Mixture 3 Nav Lights (ADSB?)	CLEAR HOLD OPEN 1/8th START 1000 rpm CHECK CHECK UP as required as required as required	HOLDING SHORT 1 Radios (coms, nav, gps) 2 Flight Instruments 3 Seat, belts, doors 4 Primer 5 Key 6 Lights 7 Carb heat 8 Mixture 9 Flaps 10 Transponder	SET CHECK SECURE LOCKED BOTH as required OFF as required as required		
6 Propeller Area 7 Toe Brakes 8 Throttle 9 Ignition 10 Throttle 11 Oil Pressure 12 Ammeter PRE-TAXI & TAXI 1 Flaps 2 Mixture 3 Nav Lights (ADSB?) - 4 Other Lights	CLEAR HOLD OPEN 1/8th START 1000 rpm CHECK CHECK UP as required as required as required as required	HOLDING SHORT 1 Radios (coms, nav, gps) 2 Flight Instruments 3 Seat, belts, doors 5 Key 6 Lights 7 Carb heat 8 Mixture 9 Flaps 10 Transponder 11 Final approach	SET CHECK SECURE LOCKED BOTH as required OFF as required as required as required as required		
6 Propeller Area 7 Toe Brakes 8 Throttle 9 Ignition 10 Throttle 11 Oil Pressure 12 Ammeter PRE-TAXI & TAXI 1 Flaps 2 Mixture 3 Nav Lights (ADSB?) - 4 Other Lights 5 Avionics	CLEAR HOLD OPEN 1/8th START 1000 rpm CHECK CHECK UP as required	HOLDING SHORT 1 Radios (coms, nav, gps) 2 Flight Instruments 3 Seat, belts, doors 4 Primer 5 Key 6 Lights 7 Carb heat 8 Mixture 9 Flaps 10 Transponder 11 Final approach CLEARING MAGNETOS	SET CHECK SECURE LOCKED BOTH as required OFF as required as required as required as required as required		
6 Propeller Area 7 Toe Brakes 8 Throttle 9 Ignition 10 Throttle 11 Oil Pressure 12 Ammeter PRE-TAXI & TAXI 1 Flaps 2 Mixture 3 Nav Lights (ADSB?) - 4 Other Lights 5 Avionics 6 ATIS	CLEAR HOLD OPEN 1/8th START 1000 rpm CHECK CHECK UP as required as required as required as required as required as required SET	HOLDING SHORT 1 Radios (coms, nav, gps) 2 Flight Instruments 3 Seat, belts, doors 4 Primer 5 Key 6 Lights 7 Carb heat 8 Mixture 9 Flaps 10 Transponder 11 Final approach CLEARING MAGNETOS 1 Key	SET CHECK SECURE LOCKED BOTH as required OFF as required as required as required as required CLEAR		
6 Propeller Area 7 Toe Brakes 8 Throttle 9 Ignition 10 Throttle 11 Oil Pressure 12 Ammeter PRE-TAXI & TAXI 1 Flaps 2 Mixture 3 Nav Lights (ADSB?) - 4 Other Lights 5 Avionics 6 ATIS 7 Instruments	CLEAR HOLD OPEN 1/8th START 1000 rpm CHECK CHECK UP as required as required as required oN RECORDED SET RECORDED	HOLDING SHORT 1 Radios (coms, nav, gps) 2 Flight Instruments 3 Seat, belts, doors 4 Primer 5 Key 6 Lights 7 Carb heat 8 Mixture 9 Flaps 10 Transponder 11 Final approach CLEARING MAGNETOS 1 Key 2 Throttle (hold brakes)	SET CHECK SECURE LOCKED BOTH as required OFF as required as required as required as required as required Roth CLEAR		
6 Propeller Area 7 Toe Brakes 8 Throttle 9 Ignition 10 Throttle 11 Oil Pressure 12 Ammeter PRE-TAXI & TAXI 1 Flaps 2 Mixture 3 Nav Lights (ADSB?) - 4 Other Lights 5 Avionics 6 ATIS 7 Instruments 8 Clearance	CLEAR HOLD OPEN 1/8th START 1000 rpm CHECK CHECK UP as required as required as required oN RECORDED sET RECORDED as required	HOLDING SHORT 1 Radios (coms, nav, gps) 2 Flight Instruments 3 Seat, belts, doors 4 Primer 5 Key 6 Lights 7 Carb heat 8 Mixture 9 Flaps 10 Transponder 11 Final approach CLEARING MAGNETOS 1 Key 2 Throttle (hold brakes) 3 Mixture-Lean (30 Sec) ->	SET CHECK SECURE LOCKED BOTH as required as required as required as required as required as required Roth 2200 Rich 1700		

C172N - Long Island Flying

(revised 08/25/2018)

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500' CHECK	AFTER LANDING				
1 Engine Gauges GREEN	1 Carb heat OFF				
2 FlapsVERIFY UP	2 TransponderSTANDE	3Y			
3 Clear AreaCHECK	3 FlapsUP				
	4 Lights (ldg / taxi) as require	ed			
1000' CHECK					
1 Landing Light OFF	ENGINE SHUT DOWN				
2 Cruise Climb 70-85	1 Avionics OFF				
	2 MagnetosCHECK				
CRUISE CHECK	3 Throttle IDLE				
1 Power 2300 RPM	4 Mixture ICO				
2 Trim as required	5 Ignition Key OFF / OU	JT			
3 Lights as required	6 Lights as require	ed			
4 Fuel Selector as required	7 Battery MasterOFF				
5 Mixture (lean)>3000' only					
	BEFORE YOU GO HOME				
DESCENT	1 Hobbs & TachNOTE				
1 ATISRECORD	2 Battery Master OFF				
2 Inst & avionics ADJUST	3 Avionics or Radios OFF				
3 Throttleas required	4 Control LockRight Sid	le			
4 Mixtureas required	5 Seat BeltsSecured				
5 Carb heatas required	6 BelongingsRemove				
	7 Cowl PlugsInserted				
PRE-LANDING	8 Doors & BaggageLocked				
1 Fuel SelectorON	9 Tie downs/Chocks Secured				
2 MixtureRICH	10 Rudder Lock Below W	1CKS			
3 Carb heatON	11 Ladders Secured				
4 Ignition	V CDEEDC				
5 Primer IN & LOCKED	V-SPEEDS				
6 Seat BeltsSECURE	VNE - 160, VNO - 128				
7 Lights as required	Va (2300lbs) - 97				
	VFE (Flaps 10) - 110 VFE (Flaps 10-40) - 85				
	Vr. (11aps 10-40) - 83 Vs. 47				
	Vso - 41				
BALKED LANDING	Vx (Flaps 10*+) - 55				
POWER UP & carb heat off	Vx (Flaps up) - 59				
PITCH UP (55kts initially)	Vx (1 taps up) = 35 Vy - 73				
CLEAN UP - flaps 20* & 55kts	V _R - 55				
	Best Glide (no flaps) - 65				
TALK UP	Approach - 60-70				
Verify Aircraft is Cleaned up	X-wind component - 15				
? Sidestep runway for visibility	Useable Fuel (100LL) - 40 of 43				

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ENGINE FIRE - IN FLIGHT

Mixture -----ICO Fuel Shut-off -----CLOSED Battery Master ----- OFF Cabin Heat ----- OFF Airspeed ----- 100 kts **Prepare for Forced Landing**

Emergency Descent ----- Consider

FIRE - ELECTRICAL

Battery Master -----OFF Avionics ----- OFF All switches ----- OFF Vents, Air, & Heat ----- CLOSED Fire Extinguisher ----- Consider Emergency Descent ----- Consider

If extinguished & power is needed

Vents (open when fire is out) Battery Master ----- ON Circuit Breakers ----- CHECK Radio Switches ----- OFF Avionics -----ON Radio switches ----- ON (1x1) Land as soon as possible

FIRE - IN CABIN

Battery Master ----- OFF Cabin Air ----- OPEN Cabin Heat ----- CLOSED Fire Extinguisher ----as required Land ASAP

ICING

Leave area (turn, climb, descend) Pitot Heat -----ON Carb heat ----- ON Cabin heat -----ON Move control surfaces Increase Throttle (propeller icing) (Sacrifice altitude for airspeed)

ENGINE FAILURE

SPEED --- BEST GLIDE / TRIM SPOT --- LANDING AREA SPEC ---Primer ----- In & LOCKED Ignition ----- VERIFY BOTH Carb heat ----- ON Mixture ----- RICH Fuel-shutoff ----- VERIFY ON Ignition ----- CYCLE MAGS If restart successful:

Oil pressure ----- CHECK Oil temp ----- CHECK Electrical equip ----- as required If restart NOT successful:

FORCED LANDING

Distress call - 121.5

- Who, Where, # on board

- "Committed to landing"

Transponder ---- 7700

Seat belt/harness ----- Tight

ENGINE SECURING

Fuel shut-off ----- OFF Mixture -----ICO Ignition ----- OFF Prior to impact Flaps ----- as required Battery Master ----- OFF Door latches ----- as required

LOSS OF OIL PRESSURE

X-CHECK Oil Temp If NORMAL - Land ASAP If RISING- Reduce throttle to minimum required - Land ASAP Prepare for engine failure

STATIC SOURCE BLOCKED

Alternate Static-ON (if equipped) Else - Break VSI Airspeed - see table in Sec 5

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OVER-VOLTAGE LIGHT

(Cross-check Ammeter)
Avionics Master ----- OFF
Battery Mstr (both) --- OFF
Battery Master ---- ON
Over-Voltage Light --- OFF?
Avionics Master ---- ON

If light re-illuminates, Land ASAP

Ammeter Shows Discharge

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

SPIN RECOVERY

Power ------IDLE
Aileron ------NEUTRAL
Rudder ------Fully Opposite

Elevator ----- Briskly Forward

After rotation has stopped

Rudder - NEUTRALIZE Elevator - EASE BACK

LOST COMMS

Radio ON; Volume Set;

Correct frequency / alternates;

Circuit Breakers; alternator;

Mike / headset plugs

Range location;

Last ATC Alternate radio;

Cell Phone

If still not working -

Transponder - 7600 Maintain VFR - land ASAP DAY - rock wings if receiving NIGHT - flash lights if receiving

LIGHT GUN SIGNALS

	G	round		Air
Stdy Green -			-	Clrd to land
Flash Green	-	Clrd to taxi	-	Clrd for app
Stead Red	-	Stop		- Give way-cir
Flash Red	-	Clr rwy		 Don't Land
Red / grn	-	Caution		 Caution
Flsh White	-	Return		

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)