N2134Y Cessna 172D & Lycoming C	D-360-A1A (2/2024) Page 1
PREFLIGHT INSPECTION	
CABIN	
Certificates/Documents	IN AIRCRAFT
Airworthiness Certificate	
<b>R</b> egistration	
Radio Operators/Station Licer	
Operating Limitations/Airplar	ne Flight Manual
Weight & Balance (current)	
Pre-Flight Checklists (2)	
	COMING O-360-A1A 180HP ENGINE
Aircraft Use Log	CHECK
Parking Brake	AS REQUIRED
Control Wheel Lock	REMOVE
Ignition Switch	OFF
Fuel Selector	BOTH/ON
Master Switch	ON
Fuel Quantity Indicators	CHECK QUANTITY
Anti-collision/Strobe Lights	CHECK OPERATION
Fuel Pump (check for ops including ga	
Lights (Night Operations)	CHECK
Stall Warning Horn	CHECK
Master Switch	OFF
Flaps	DOWN FOR INSPECTION
Baggage Door	CHECK SECURE
TAIL SECTION	
Tail Tie-Down/Rudder Gust Lock	
Elevator & Rudder	CHECK FREEDOM & SECURE
Nav. Light RIGHT WING	UNBROKEN (WHITE)
Flap Tracks & Actuator Rod	
Aileron	CHECK FREEDOM & SECURE
Nav. Light	
Fuel Quantity	CHECK VISUALLY
Fuel Filler Cap	SECURE
Wing Tie Down	REMOVE
Fuel Tank Sump Quick-Drain Valve	
Main Wheel	CHECK WEAR & INFLATION (23 psi)

	Page 2
NOSE	
Windshield	CHECK CLEAN
Wheel Chocks	REMOVE
Engine Oil Dipstick	CHECK (6-8 qt.)
Engine Fuel Strainer	DRAIN 4 SECONDS
Nose Wheel	CHECK WEAR & INFLATION (26 psi)
Shock Strut	CHECK PROPER INFLATION (45 psi)
	Approx. 3.25 inches showing
Air Inlets	CHECK FREE OF FOREIGN MATTER
Air Filter	CHECK
Propeller & Spinner (cracks, nicks, etc)	CHECK
Tow Bar	REMOVE
Alternator belt	CHECK TENSION
Inside battery door	INSPECT
Static Port	CHECK
LEFT WING	
Main Wheel	CHECK WEAR & INFLATION (23 psi)
Fuel Tank Sump Quick-Drain Valve	DRAIN
Wing Tie-down	REMOVE
Fuel Quantity	CHECK VISUALLY
Fuel Filler Cap	SECURE
Pitot Tube/Cover	CHECK/REMOVE
Fuel Tank Vent Opening	CHECK
Landing Light	CHECK
Nav. Light	UNBROKEN ( <mark>RED</mark> )
Aileron	CHECK FREEDOM & SECURE
Flap Tracks & Actuator Rod	CHECK
BEFORE STARTING ENGINE	
Chocks	REMOVE
Preflight Inspection	COMPLETE
Passenger Briefing	COMPLETE
Seats, Seat Belts, Harness	ADJUST & LOCK
Brakes	TEST & SET
Circuit Breakers	CHECK IN
Avionics Master (and other electrical e	
Fuel Selector	BOTH/ON

	СН
Carburetor Heat CO	LD
Propeller FULL RF	٧N
Master Switch (	ЛC
Prime (2-6 strokes) AS REQUIR	ED
Primer IN & LOCK	ED
Throttle OPEN 1/4 in	ich
Anti-collision/Strobe Lights 0	ЛC
Propeller Area CLE	AR
Ignition Switch STA	RT
Oil Pressure Low Pressure Light O	)FF
Verify oil pressure with gauge w/in 30 secon Engine Warm-up THROTTLE 1000-1100 RF	
BEFORE TAXI	
Lights & Strobes AS REQUIR	ED
-	ЗN
Avionics Master 0	ies
Avionics Master O   Set Radio (ATIS, GC, etc.) and NAV Frequence   Transponder   ALTITU	ies
Avionics Master ( Set Radio (ATIS, GC, etc.) and NAV Frequence Transponder ALTITU Flaps	<i>ies</i> DE
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Avionics MasterConstraintSet Radio (ATIS, GC, etc.) and NAV FrequenceTransponderALTITUFlapsBrakesBrakesBrakesParking BrakeSeats, Belts, HarnessesCabin Doors & WindowsCLOSED & LOCK	ED CK ED CK

	Page 4		
Mixture	RICH		
Throttle	1800 RPM		
Oil Pressure	CHECK (In Range)		
Suction Gage	CHECK (4.6 to 5.4)		
Engine Instruments & Ammeter	- CHECK		
Propeller	CYCLE 3 TIMES (500 RPM Max drop)		
Magnetos	CHECK		
	125 max drop/50 max difference		
Carburetor Heat	HOT (Check for RPM drop)		
Throttle	CHECK IDLE LIMITS (650 RPM)		
Carburetor Heat	COLD (IDLE at 1000 RPM)		
Throttle Friction Lock	ADJUST		
Flight Instruments	CHECK & SET		
Radios	SET		
Fuel Pump	ON		
Wing Flaps	SET for takeoff		
Lights	LANDING/TAXI ON		
Note time of departure for fuel purposes.			
NORMAL TAKEOFF			

	Wing Flaps		0 Degrees
	Carburetor Heat		COLD
	Throttle		FULL OPEN
	Elevator Control	LIFT NO	DSE WHEEL (60 MPH)
	Climb Speed	65 MPH un	til obstacle clearance
		assu	red then 85-90 MPH
	At 500' AGL	Throttle: 25" MP	Prop: 2500 RPM
	Fuel Pump		OFF at 1000' AGL
	DO NOT Operate prop conti	inuously between 200	0 and 2250 RPM
	CRUISE		
	Power Refer to FUEL AND POWER CHART O-360-A1A		
(A good power setting is 21" MP and 2300 RPM)			
	Mixture		LEAN (as required)

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BEFORE LANDING		
Seats, Belts, Harnesses		SECURE
Fuel Selector		BOTH/ON
Fuel Pump		ON
Mixture		RICH
Propeller		FULL RPM
Carburetor Heat		HOT
Wing Flaps		AS DESIRED
Airspeed 70-80 MPH (flaps up), 65-75 MPH (flaps down)		
BALKED LANDING (Go-Arc	ound)	
Power	F	ULL THROTTLE
Carburetor Heat		COLD
Wing Flaps	R	ETRACT to 20 <sup>o</sup>
Upon reaching airspee	ed of approximately 65 MPH, retro	ict flaps slowly
NORMAL LANDING		
Airspeed	70-80	MPH (flaps up)
Wing Flaps	AS DESIRED (be	low 100 MPH)
Airspeed	65-75 MP	H (flaps down)
Touchdown		MAINS FIRST
Landing Roll	LOWER NOSE V	VHEEL GENTLY
Braking	MINIM	UM REQUIRED
AFTER LANDING		
Wing Flaps		UP
Carburetor Heat		COLD
Fuel Pump		OFF
Mixture (Lean to the point	of almost not running)	LEAN
Lights		AS REQUIRED

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SHUTDOWN				
Parking Brake		AS REQUIRED		
Avionics Master (and other electrical equipment)		OFF		
Throttle		1000 RPM		
Mixture		IDLE CUT-OFF		
Ignition Switch		OFF		
Master		OFF		
Control Lock		INSTALL		
Tach Time		RECORD		
Pitot Tube Cover		INSTALL		
Aircraft		SECURE		
USEFUL INFORMATION				
V-Speeds Note: All Speeds are for Gross Weight (2,300 lbs)				
Vr: (Rotation)		60 MPH		
Vx: (Best Angle)		65 MPH		
Vy: (Best Rate)		80 MPH		
Va: (Maneuvering)		122 MPH		
Vfe: (Max Flaps exten	-	100 MPH		
Vno: (Max Structural	Cruising)	140 MPH		
Vne: (Never Exceed)		174 MPH		
Vs1: (Stall Clean)		57 MPH		
Vso: (Stall Dirty)		49 MPH		
VGlide: (Clean)		80 MPH		
Standard Fuel Loading				
	42 Gallon Capacity 252 lbs			
	36 Gallons Usable 216 lbs 6 Gallons Unusable Fuel 36 lbs			
55% ~99HP	65% ~117HP	75% ~135HP		
Approx. 7.4 gph	Approx 8.8 gph	Approx 10 gph		