Checklist

Ercoupe 415

Initial

Weather & Den Alt. Weight & Balance Performance Req. Flight Plan - File Papers A.R.O.W Control Lock Master On Nav/Beacon/Strobe Landing Light Master Off

Exterior

Fuel Quantity, Quality Caps/Drains/Vents Engine & Oil Quantity Exhaust System Prop/AirIntake Surfaces / Controls Pitot & Static port Gear/Tires Antennas Ties/Chokes off Final Walkaround

Interior

Hobbs Time Fuel Both - ON Circuit Breakers ELT armed Brake Pedal Test Passenger Instruct

Engine Start

Avionics Off Beacon On Brakes Set Throttle 4 Notches Carb Heat Off Prime 2-6 Strokes Prop - Clear ! Master On Mags On Starter Pull/push **900-1200 RPM** Oil Pressure Avionics On Nav Lights - As Req

Frequencies

Atis/Awos

Taxi

Seat Belts

Radios Test

Brakes test

Transponder Stdby

Collision Light On

Runup

Wheel Straight Brakes Set Fuel on - check

valve open Flight Controls

Instrument(s) Carb Heat Off **2000 RPM** Mags R&L Test Carb Heat Test

Carb Heat Test Amps/Volts Oil 90°F min Oil Press 35lb min

Pre-Takeoff

Windows Closed

Baggage Secure

Passenger Brief

Tranponder Alt

Landing Light On

x-wind

Trim Takeoff -

set for cruise in

Takeoff

Full Throttle 2100 Rpm Oil Pressure Rotate @ 56

Climb

V_X=60 V_Y=70 Monitor Engine

Cruise

Throttle back Oil Temp 100-225°F Cyl Temp 350-500°F Carb Heat (Icing) Check for Traffic

Descent

Open Throttle in Glide to clear Cyl Open Carb heat in steep descent

Pre-Landing

Landing Light On Carb Heat On Open Throttle in Glide to clear Cyl Best Glide 70 Mph

Landing

Best Glide 60 - 70 Mph

Clear Active

Radio announce Landing Light Off Transponder Stdby

Secure

Avionics-Off Mags Off Master Off Hobbes Time Control lock Tie Down/Chockes

Close Flight Plan

Speed Limits Maneuvering max.Struct.Crui Never exceed v		(ts) $V_{Y}=70$ (ts) $V_{S1}=56$ (14)	So ⁼ none 00lb), 48 (1260), 52 (1320)	Engine Limits max. Engine r.p.m. max.Cruising r.p.m. max Oiltemp max Cyl Head temp min.Oilpressure	2575 2400 225°F 540°F 10 lb
Ranges Model 4	15 -85 h.p with 7150 Mc	Cauley propeller-	sea level -mix	ture rich	
Normal Maximu	m (Calm)	113 m.p.h.	2400 r.p.	m. 5.9 Gal/hr.	17.5 Mi/Gal.
Conservative Cr	uise (Calm) 75%	107	2275	5.4	19.8
Max.Range:	15 m.p.h. Tailwind	75	1825	3.2	28.1
-	No Wind	80	1875	3.4	23.5
	15 m.p.h. Headwind	90	2025	3.9	19.2
	15 m.p.h. Headwind 30 m.p.h. Headwind	90 97	2025 2125	3.9 4.3	19.2 15.6
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Emergency Procedures

Ercoupe 415

Engine Inoperative (loss)

On Takeoff (not Airborne)

With sufficiant Runway remaining: Throttle - Close Immediatly Brakes - Apply as Required Stop Straight Ahead.

Insufficiant Runway remainig: Throttle - Close Immediatly Brakes - Apply as Required Fuel Valves - Off Master switch - Off Magnetos - Off Maintain directional Control and Maneuver to avoid obstacles

Power Loss In Flight

Fuel Valves On - Check Carburetor Heat - On Engine Gauges - Check Primer - Locked Ignition Switch L - R - Both

If Power can not be restored prepare for Power off Landing

On Takeoff (Airborne)

With sufficiant Runway remaining: Airspeed - Maintain above Stall **Directional Control - Maintain** Land Straight Ahead.

Insufficiant Runway remainig: Airspeed - Maintain above Stall Throttle - Close Immediatly Fuel Valves - Off Master switch - Off Magnetos - Off Make only shallow turns to avoid obstacles.

Power OFF Landing

Trim for best Glide 60-70 MPH Locate suiteable Landing Area Establish Spiral Pattern Be 1000 ft above Field at Downwind Ignition - Off Master - Off **Fuel Valves - Off** Seatbelts - Tight Touch down with slowest possible Speed for a full stall Touchdown.

Fire

During Start

Starter - CrankEngine Trottle - Open Fuel Valves - Off Abandon Airplane if Fire continues

In Flight

Source of Fire - Check Engine: Fuel valves - Off Cabin Heat - Off

Electrical: Master - Off Windows - Open

Sideslip to avoid Flames Land as soon as practicable

No Oil Pressure

Reduce power, trim for slow speed Prepare for Power Off Landing

High Oil Temp.

Land as soon as possible and investigate. Prepare for Power Off Landing

2575

2400

225°F

540°F

Generator/Alternator Failure

Circuit Breaker - Check Reduce electrical Load and Land as soon as Practical.

Speed Limits		
Maneuvering	108	MF
Speed Limits Maneuvering max.Struct.Cruising v _{No}	114	MF
Never exceed v _{NE}	144	MF

PH (94kts) $V_{X} = 60$ $V_{SO} = none$ $V_{Y} = 70$ PH (99kts) V_{S1}= 56 (1400lb), 48 (1260), PH (125kts) V_{No}= 114 52 (1320) $V_{NF} = 144$

Engine Limits max. Engine r.p.m. max.Cruising r.p.m. max Oiltemp max Cyl Head temp min.Oilpressure

Emergency Communications: Squawk 7700

Transmit 'Mayday, Mayday, Mayday' Name of Station Calling Aircraft Type & N-Number Nature of Emergency Position, Heading, Altitude Fuel Remaining Number of Person Aboard Weather Conditions Intentions/Assistence Desired

Lost Communication Procedures: Check frequency and Volume Check Mike Jacks Squawk 7600 Class D Airspace: Observe traffic Flow Enter Pattern Look For Light Signal from Tower

Acknowledge with Wings (rocking) Landing

Climb-Communicate-Confess-Comply-Conserve

Aviate Navigate -Communicate

Light (blinking)

10 lb If Lost: