

RV-14A

N59ER

Checklist

Revision 1.2

AIRSPEEDS FOR SAFE OPERATION

Stall – Full Flaps (V _{S0})	51 KIAS
Stall – No Flaps (V _{S1})	62 KIAS
Best Glide (V _{GL})	95 KIAS
Take-off Lift-off (V _{LOF})	58 KIAS
Maximum Climb	
Best Angle (V _x)	70 KIAS
Best Rate (V _Y)	
Cruise Climb (V _{cc})	
(1 00)	
Maneuvering Speed (V _A) @2,050 lbs	130 KIAS
Maneuvering Speed (V _A) @1,900 lbs	
Max "G"	
Structural Cruising (V _{NO})	156 KIAS
Do Not Exceed (V _{NE})	
Pattern Speed	
Flaps Extended (V _{FE})	100 KIAS
Landing Approach	
Full Flaps	
No Flaps	
Max Demonstrated Crosswind	20 KIAS
POWER PLANT DA	<u>tta</u>
LycomingYIC	
I VCOITIIIO TIL)-390-A3B6
Type	D-390-A3B6 INJECTED
Type4 CYL / FUEL	INJECTED
Type4 CYL / FUEL Horsepower Maximum Speed	INJECTED210

WEIGHTS

Maximum Takeoff	2,050 lbs
Maximum Ramp	2,050 lbs
Maximum Landing	2,050 lbs
Maximum Baggage Compartment	100 lbs
Empty	1,311 lbs
Gross	2,050 lbs

PREFLIGHT INSPECTION

COCKPIT CHECK Control Lock	OFF REMOVE
EXTERIOR CHECK	
NOSE SECTION	
Left Cowl	SECURE
Induction Air Intake	CLEAR
Propeller	CHECK
Tire and Nose Gear	CHECK
Chocks	.REMOVE
Engine Oil	CHECK
Cap & Dipstick	
Right Cowl	
Windshield	
RIGHT FUSELAGE	
Static Air Port	CLEAR
NACA Vents	_
All Antennas	
RIGHT LANDING GEAR	OI ILOIX
Tire and Brake	CHECK
Chocks	
Fuel Sump	
RIGHT WING TRAILING EDGE	DIVAIIV
Flap	CHECK
Aileron	
RIGHT WING LEADING EDGE	0112010
Pitot TubeCHECK, (Remo	ove Cover)
Tie Down	
Wing Tip	
Fuel TankCHECK QUANTITY 8	
Position Light	
Fuel Vent LineUNOBS	TRUCTED
DV 144 NEOFR Chaptlist Ray 1.0	

Stabilizers Tie Down Position Light Elevator Trim	CHECK SECURE REMOVE CHECK CHECK CHECK
LEFT WING LEADING	EDGE
Pitot Tube	CHECK, (Remove Cover)
	REMOVÉ
	CHECK
	CK QUANTITY & SECURE
	CHECK
	UNOBSTRUCTED
	CHECK
LEFT FUSELAGE	
Static Air Port	CLEAR
NACA Vents	CLEAR
All Antennas	CHECK
LEFT WING TRAILING	EDGE
Aileron	CHECK
	CHECK
LEFT LANDING GEAR	
Tire and Brake	CHECK
Chocks	REMOVE
	DRAIN
•	
BEFORE STARTING	
Seats	POSITION AND LOCK
All Panel Switches	OFF
Master	ON
Fuses	CHECK
Set Fuel in EIS	CHECK

STARTING

Seat Belts	CHECK
Fuel Selector	LEFT or RIGHT
COLD START	
	FULL RICH
	OPEN
	.ON (1 - 3 sec. then OFF)
	ON (1 - 3 Sec. then Of 1)
	START
	FULL RICH (on start)
	IDLE SPEED
11110tue	IDLE SPEED
ENGINE INSTRUMENTS	
	CHECK
	1,000 to 1,200 RPM
	ON & CHECK
HOT START	
	OFF
Mixture	OFF FAST IDLE
MixtureThrottleStart Switch	FAST IDLE
MixtureThrottleStart Switch	FAST IDLE
MixtureThrottleStart SwitchMixture	FAST IDLEENGAGEADVANCE SLOWLY
Mixture Throttle Start Switch Mixture (until engine	FAST IDLE
Mixture Throttle Start Switch Mixture (until engine	FAST IDLEBNGAGEADVANCE SLOWLY e starts running smoothly)
Mixture Throttle Start Switch Mixture (until engine Fuel pump	FAST IDLEADVANCE SLOWLY e starts running smoothly)ON (if rough)
Mixture Throttle Start Switch Mixture (until engine Fuel pump FLOODED ENGINE Mixture	FAST IDLEADVANCE SLOWLY e starts running smoothly)ON (if rough)
Mixture Throttle Start Switch Mixture (until engine Fuel pump FLOODED ENGINE Mixture Throttle	FAST IDLEADVANCE SLOWLY e starts running smoothly)ON (if rough)OFF
Mixture Throttle Start Switch Mixture (until engine Fuel pump FLOODED ENGINE Mixture Throttle Starter Switch	FAST IDLEENGAGEADVANCE SLOWLY e starts running smoothly)ON (if rough)OFFOFF
MixtureStart Switch(until engine Fuel pump	FAST IDLE
Mixture	FAST IDLEFAST IDLEADVANCE SLOWLY e starts running smoothly)ON (if rough)OFF
Mixture	FAST IDLE

AFTER STARTING AND BEFORE TAXI

Avionics Master	BOTH ON
Trim Power	ON
Nav Lights	ON
Autopilot Servos	PowerON
Landing/Taxi Ligh	ntsAS REQUIRED
Trim	CHECK & SET
Flaps	RETRACT
Brakes	CHECK
Oil Pressure	25 psi (30 seconds)
Fuel pressure	14 PSI min
Altimeters	SET ALL
	(EFIS, Horis and Winter ALT)

BEFORE TAKEOFF

Annunciators	CLOSED & LATCHED CHECK
Seat Belts	CHECK
Flight ControlsC	HECK FREE & CORRECT
Autopilot Disconnect	CHECK
	CHECK
	ON
	AS REQUIRED
Pitot Heat	AS REQUIRED
	1,800 RPM
	CYCLE
Magnetos	CHECK LEFT AND RIGHT
Mixture	CHECK
Engine Instruments	CHECK
	IDLE
Elevator Trim	CHECK AND SET
	FULL RICH (or as required)
	ÀS REQUIRED
-	ON
•	

IN FLIGHT

TAKEOFF
Takeoff & ClimbFULL THROTTLE
Rotate
Climb95 KIAS
Best Angle70 KIAS
FlapsRETRACT
TiapsNETIVACT
CLIMB
Fuel PumpOFF (> 1,000 AGL)
CHT ≤ 435°
Oil Temp≤ 220°
CRUISE
Fuel PumpCHECK OFF
PowerSET
MixtureLEAN
Navigational AidsIDENTIFY
Landing/Taxi LightsAS REQUIRED
Fuel QuantityCHECK
AltimetersSET
Oil Temp165° to 200°
DECOENT
DESCENT
AltimetersSET
PowerAS REQUIRED
Mixture RICHEN AS REQUIRED
Landing/Taxi LightsAS REQUIRED
BEFORE LANDING
Seat BeltsSECURE
Fuel PumpON
Fuel SelectorCHECK / SET FULLEST TANK
MixtureFULL RICH (as required)
Landing and Taxi LightsAS REQUIRED
FlapsDOWN
Airspeed
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GO-AROUND	
Mixture	FULL RICH (or as required)
	MAX RPM
Power	FULL THROTTLE or 2700 RPM
Airspeed	95 KIAS
	UP
-	
<u>EMERGENCY L</u>	
AIRSPEED	SLOWEST PRACTICAL
THROTTLE.	IDLE
FUEL SELE	CTOROFF
MIXTURE	OFF
FLAPS	AS REQUIRED
ALL PANEL	SWITCHESOFF
SEAT BELT	SSECURE
CANOPY	UNLATCH OR JETTISON
	(prior to landing, as appropriate)

AFTER LANDING

Fuel Pump	OFF
Landing/Taxi Lights	
Flaps	FULL DOWN
Pitot Heat	
Pitch Trim	SET AS REQUIRED
Avionics 2	SET AS REQUIRED

SHUTDOWN

Engine	IDLE TO COOL DOWN
	OFF
	OFF
Avionics 1	OFF
Alternator	OFF
Prop	MAX RPM
Throttle	IDLE
Mixture	FULL LEAN
Master	OFF (after engine stop)
Key	OFF & REMOVE
	OFF
Control Lock	INSTALL
Aircraft	TIE DOWN
Canopy Lock	PLACE AND LATCH
Canopy Cover	AS REQUIRED

PASSENGER BRIEFING

Restraint system

Engaging

Verifying

Tightening and loosening

Releasing

Canopy operation

Lock/Unlock

Opening

Jettison function

Controls

Remaining clear

Flight controls

Stick functions

Pedal functions

Engine controls functions

Fuel selector

Avionics

Stick buttons operation

Panel PTT operation

When it's okay to speak

Headset operation

Intercom operation

Radio operation

Including emergency usage

EFIS function

ELT emergency usage

Transponder emergency usage

Environmental

Heater operation

Air vent operation

Airsickness bag location

Checklist location

--- EMERGENCY PROCEDURES ---

SPIN RECOVERY CONTROLS......RELEASE If Spin Continues THROTTLE.....IDLE STICK......CENTER RUDDER.....FULL OPPOSITE SPIN RECOVER FROM DIVE **EMERGENCY DESCENT** Throttle.....IDLE Airspeed.....ESTABLISH 175 KTAS (slower for rough air) **MAXIMUM GLIDE CONFIGURATION** Flaps.....RETRACTED Airspeed......95 KIAS **EMERGENCY AIRSPEEDS** EMERGENCY DESCENT......175 KTAS

NOTE

Glide distance (in no wind conditions) is approximately 1.7 NM 1,000 feet of altitude

EMERG APPROACH......75 KIAS

ENGINE DISCREPANCY CHECKS

ROUGH RUNNING ENGINE
FUEL PUMPON
MIXTUREFULL RICH, then LEAN as req'd
MAG SWITCHCHECK LEFT, RIGHT,
then BOTH
LOSS OF ENGINE POWER
FUEL FLOW / PRESSURECHECK
If fuel flow is abnormally low:
MIXTUREFULL RICH
FUEL PUMPON, LEAN as req'd
FUEL QUANTITYCHECK TANK
If tank being used is empty:
FUEL SELECTORSELECT OTHER TANK
(feel for detent and check visually)
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ENGINE FIRE
ON GROUND
MAGNETO / START SWITCHOFF
FUEL SELECTOROFF
THROTTLEOFF
MIXTUREOFF
ALL SWITCHESOFF
Exit aircraft and extinguish with fire extinguisher
IN FLIGHT
FUEL SELECTOROFF
MIXTUREOFF
THROTTLEIDLE
CABIN HEATPUSH OFF
OUTSIDE AIRAS REQUIRED
ALTERNATOROFF
MASTEROFF
MAG SWITCHOFF
Land as soon as possible, emergency descent if required.
Do not attempt to restart engine.

ENGINE FAILURE

ENGINE FAILURE ON TAKEOFF (NOT AIRBORNE)
THROTTLECLOSED
BRAKESMAXIMUM
If unable to land on runway
LAND STRAIGHT AHEAD (45° MAX TURN)
AIRSPEED75 – 85 KIAS
PANEL SWITCHESOFF (PRIOR TO LAND)
START SWITCHOFF
FUEL SELECTOROFF
MIXTUREOFF
ENGINE FAILURE IN FLGHT
AIRSPEED75 – 85 KIAS
FUEL PUMPON
FUEL SELECTORSELECT OTHER TANK
(Check to feel detent and check visually)
MIXTUREFULL RICH
THROTTLEFAST IDLE
START SWITCHBOTH
(START if prop stopped)
IF NO RESTART
MAYDAY CALL & SQUAWK 7700
MAX RANGE GLIDE SPEED95 KIAS
THROTTLEIDLE
FUEL SELECTOROFF
MIXTUREOFF
MAG SWITCHOFF
FUEL PUMPOFF
When certain of reaching the selected landing site:
AIRSPEED95 KIAS
/ III (O) LLD
FLAPS AS REQUIRED
FLAPSAS REQUIRED ALL PANEL SWITCHESOFF

NOTE

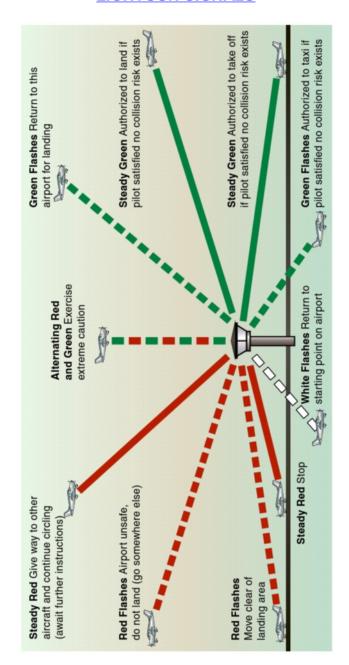
When engine starts, adjust throttle & mixture controls The most probable cause of engine failure would be loss of fuel flow or improper functioning of the ignition system.

ELECTRICAL MALFUNCTIONS

Do not replace fuses or reset alternator breaker in flight. Ensure situational awareness and if necessary, switch off offending bus.

		Fuse Legend		
10	Hobbs+ELT ¹	Fuel Pump 5	Tail Nav/Strobe 5	10
9	LEMO 1	EIS+MAP 5	Wing Nav/Strobe 7.5	9
8	Autopilot Servos ³	SkyRadar DX ³	Landing Right 10	8
7	GTN-650 Comm ¹⁰	Horis EFIS 1	Landing Left 10	7
6	GTN-650 Nav/GPS	GTX-345	Flaps 5	6
5	USB Canopy+Tail ³	GTR-200 7.5	Trim 1	5
4	EFIS Right 3	EFIS Left	Dimmer+Defrost 1	4
3	Capacitive Fuel	GMA-245	Pitot Heat	3
2	USB Console	CO+Fuel Guardian	Alternator Field 5	2
1	AHRS 2	AHRS 1+GPS	Start 3	1
	Avionics 2	Avionics 1	Master	

LIGHTGUN SIGNALS



TRANSPONDER CODES

Code	Meaning
7700	Emergency
7600	Radio failure
7500	Hostage
1200	VFR

VISIBILITY RESTRICTIONS

						G				
				(<u>E</u>)		<1200 AGL		>1200AGL, <10kMSL		>1200AGL, >10kMSL
	B	C	(D)	<10k	>10k	Day	Night	Day	Night	
Visibility	3 SM	3 SM	3 SM	3 SM	5 SM	1 SM	3 SM	1 SM	3 SM	5 SM
Clouds										
Below	Class	500	500	500	1000	Clear	500	500	500	1000
Above	Clear	1000	1000	1000	1000	Clear	1000	1000	1000	1000
Horizontal		2000	2000	2000	1 SM		2000	2000	2000	1 SM