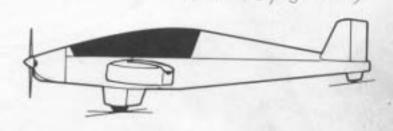
Prop Note Torque 156 in-16

Spark plugs 180-204 in-16

fuel/oil wix 40:1

(3.202 oil)/ galfuel)

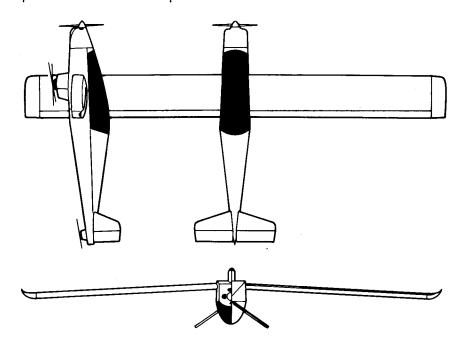


flight manual

5000-5500 Static Wil



This owner's manual has been prepared as a guide to help you get the best performance, service and pleasure from your Moni. It contains information about your Moni's equipment, operating procedures, performance and suggestions for its servicing and care. You are urged to read it carefully and refer to it often. Blank performance charts are provided. The performance data for your individual Moni should be obtained and entered during the flight test period under the supervision of the F.A.A.



At any time questions arise that you are unable to find the answer to, write to us at Monnett Experimental Aircarft, Inc. P.O. Box 2984, Oshkosh, Wisconsin 54903 or phone us between the hours of 4 p.m. and 5 p.m. central time Monday thru Friday, and we will do our best to supply you the answer.



OPERATING CHECK LIST

One of the first steps in obtaining the utmost performance, service and flying enjoyment from your Moni is to familiarize yourself with your airplane's equipment, systems and controls. This can best be done by reviewing this equipment while sitting in the plane. Those items whose function and operation are not obvious are covered in Section II.

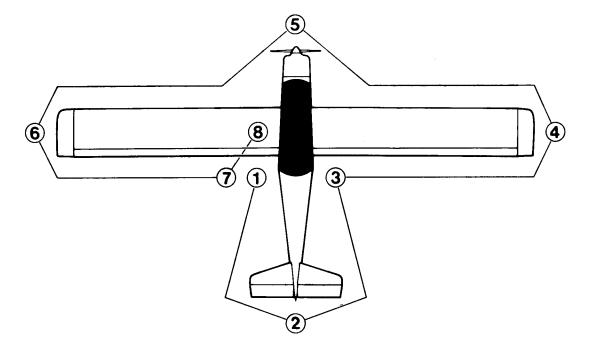
Section I lists, in Pilot's Check List form, the steps necessary to operate your airplane efficiently and safely. It is not a check list in its true form, as it is considerably longer, but it covers briefly all points necessary that you should know for a typical flight.

Flight and operational characteristics of the Moni are normal in all respects. There are no unconventional characteristics or operations that need to be mastered. All controls respond in the normal way within the entire range of operation. All airspeeds mentioned in Sections I thru VII are indicated airspeeds.

Figures calibrated for airspeeds and performance should be obtained during your flight test period.

BEFORE ENTERING THE AIRPLANE

Make an exterior inspection in accordance with figure below.



NOTE: Visually check aircraft for general condition during walk around inspection. In cold weather, remove even small accumulations of frost, ice or snow from the wing, tail and control surfaces.

Also, make sure that surfaces contain no internal accumulation of ice or debris.

- 1: A. Check canopy and lock mechanism.
 - B. Remove control stick lock, if installed.

- C. Check "Mag" switich is "Off".
- D. Check fuel quantity "MUST" indicate above "NO TAKE OFF."
- E. Check fuel valve "ON".
- 2: A. Disconnect tail tie-down.
 - B. Check tail wheel and assembly for freedom of movement and security.
 - C. Check control surfaces for freedom of movement and security.
 - D. Check pitot tube (also total energy probe if used).
- 3: A. Check right aileron for proper engagement of actuator pin and freedom of movement and security.
 - B. Inspect static air source opening and right side of fuselage for stoppage.
- 4: A. Disconnect right wing tie-down.
- B. Check main wheel tire for proper inflation. 39 M
 - C. Visually inspect wheel fairing, brake cable and dive brakes.
- 5: A. Remove cowl periodically. Check starter oil level.
 - B. Visually inspect engine -- for leaks, broken gas line, cracked or plugged exhaust stacks, throttle linkage and carburetor hook-up.

- C. Check battery fluid level.
- D. Check fuel tank cap is closed and tight.
- F. Check propeller and spinner for nicks, cracks and security.
- G. Check carburetor air screen or opening for restrictions by dust or other foreign matter.
 - H. Replace cowling and secure.
- 6: A. Check fuel tank vent opening for stoppage.
 - B. Disconnect wing tie-down.
- 7: A. Inspect aileron for proper engagement of the aileron actuator pin and for freedom of movement and security.
 - B. Inspect static air source opening on left side of fuselage
- 8: A. Visually inspect fuel quantity again.
 - B. Check fuel valve is "ON. (See before starting engine section)

BEFORE STARTING ENGINE

- 1. Seat belts and shoulder harness -- Adjust and lock.
- 2. Fuel shutoff valve -- "ON".
- 3. Master -- "ON".
- 4. Brakes -- test and set.

STARTING THE ENGINE

- 1. Throttle -- Idle
- 2. Propeller area -- "Clear and Contact"
- 3. Brake -- "ON", wheel chocked or tail tied down.
- 4. Magneto (MAG) switch -- "ON"
- 5. Choke -- "ON"
- 6. Mixture -- "RICH"
- 7. Push "START" button
- 8. Choke -- "OFF" as engine warms and will idle normally.

TAXIING

- 1. Brake -- "OFF"
- 2. Throttle "Open Gently"
- 3. Taxi at slow walk Especially on Rough Fields
- 4. Zig-zag as necessary to observe other traffic or obstacles

BEFORE TAKE-OFF

- Canopy -- closed and latched
- 2. Flight controls -- check for free and correct movement
- 3. Throttle setting -- "IDLE"
- 4. Engine instruments -- within green (operating) range
- 5. Flight instruments and radio -- set

NORMAL TAKE-OFF

- Throttle -- Full "Open" 1.
- 2. Aileron -- level wings
- Elevator control -- lift tail 3.
- Rotation at approximately 45 MPH 4.
- Climb speed -- 60 MPH 5.

MAXIMUM PERFORMANCE TAKE-OFF

1. Brakes -- Hold

2.

5.

- Elevator Control -- "UP"
- Throttle -- Full Open 3.
- Brakes -- Release 4.

Level wings

- Elevator control -- slightly tail high 6.
- Climb speed -- 70 MPH (with obstacles ahead) 7.

CLIMB

- 1. Airspeed -- 60 to 70 MPH
- 2. Throttle -- Full "Open"

CRUISING

- 1. Power -- 5000 to 6000 RPM
- 2. Lean for smoother mid range

BEFORE LANDING

- 1. Airspeed -- 50 to 55 MPH
- Throttle -- Retarded or closed enough to maintain above airspeed.
 - 3. Mixture -- "Rich"
- 4. Airbrakes deployed
- 5. "Slip" as necessary

1.

3.

BALKED LANDING (GO AROUND)

2. Slowly retract air brakes if deployed

Throttle -- Full "Open"

Climb out re-enter pattern

Slowly retract air brakes if deploye

WHEEL LANDING (FULL STALL LANDINGS PROHIBITED!)

- 1. Throttle -- Idle approximately 45 50 MPH
- 2. Touch down -- Main wheel first
- 3. Landing roll -- Stick back slowly, lower tail gently
- 4. Braking -- Minimum required

AFTER LANDING

- 1. Throttle -- "Open" gently
- 2. Taxi -- At slow walk, observe other traffic. Zig-zag
- 3. Watch wing tip clearance or narrow runway

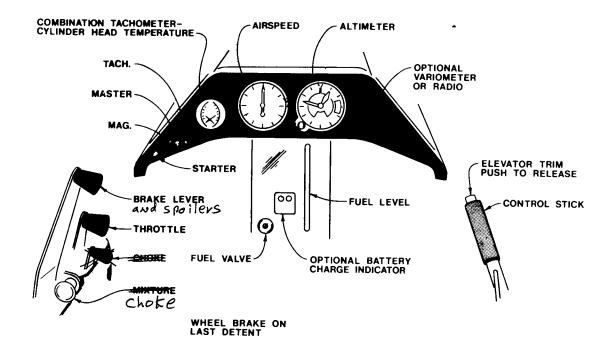
SECURING AIRCRAFT

- 1. Brakes -- Set
- 2. Radio and electrical equipment -- "OFF"
- 3. "MAG" -- switch off
- 4. Fuel valve -- "OFF"
- 5. Controls locked
- 6. Canopy latched and locked
- 7. Aircraft tied-down



DESCRIPTION AND OPERATING DETAILS

Typical Instrument Panel Layout



The following paragraphs describe the systems and equipment whose functions and operations is not obvious when sitting in the airplane. This section covers in greater detail, some items previously listed in Section 1 that require further explanation.

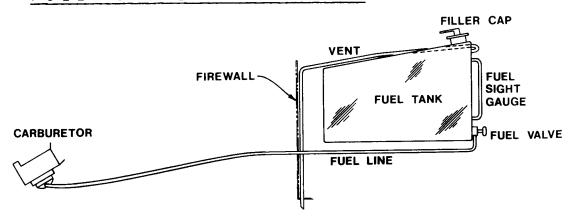
FUEL SYSTEM

Fuel is supplied to the engine from one tank located aft of the engine fire wall under the canopy. Fuel flows by gravity through a fuel shutoff valve to the carburetor.

FUEL QUANTITY DATA (U.S. GALLONS)

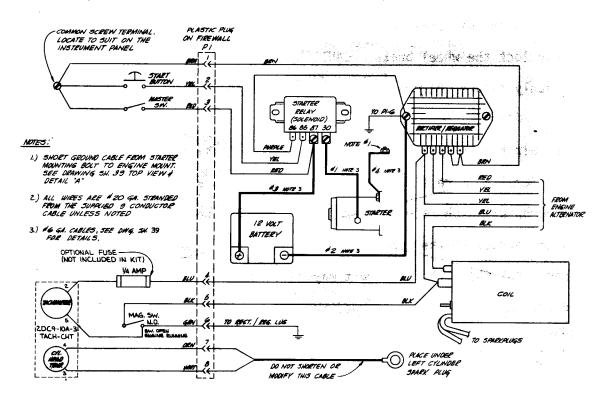
Above fuel volume based on use of Monnett supplied tank

FUEL SYSTEM SCHEMATIC



ELECTRICAL SYSTEM

The moni is designed for day VFR flight, therefore, no additional electrical components are necessary. If you wish to install a radio, follow manufacturers recommendations.



CABIN VENTILATING SYSTEM

A separate adjustable aero-vator installed in the forward fuselage supplies outside air to the pilot. The volume of airflow into the cabin can be regulated to any degree desired if adjustable flap doors are installed. During cold weather operations, the vent may be stopped with foam rubber blocks.

BRAKE SYSTEM

Pulling back on the air brake handle located on the left applies pressure to the scrubber brake on the main wheel.

Locking the air brake handle in the fully deployed position will also lock the wheel brake. CAUTION! Landing on wet runways will greatly reduce the braking action so plan ahead!

The air brakes will effectively double Moni's sink rate. Unlike spoilers and more like flaps if the air brakes are retracted quickly, a momentary high rate of sink will be experienced. Use caution when retracting the air brakes close to the ground to avoid this high sink rate. The aircraft may be slipped with the air brake deployed. Use 1/2 Spoiler abeau touch down - full spoiler on final as necessary. Refurn to 1/2 Spoiler before touch down or no spoiler as desired.

SHOULDER HARNESS

A shoulder harness is provided for the pilot. The harness is attached to the cross members of the fuselage and interconnect with the seat belt. Leave just enough slack to allow all controls to be reached. During rough air and aerobatic operation, keep the belts very snug to avoid striking the canopy.

ENGINE STARTING & SHUTDOWN CHECK LIST

Ground Start

- 1. Fuel Valve -- "ON"
- 2. Seat Belt & Shoulder Harness -- "ON"
- 3. Wheel Brake -- "ON"
- 4. Choke -- "ON"
- 5. Master Switch -- "ON"
- 6. MAG Switch -- "ON"
- 7. Throttle -- "CLOSED"
- 8. "CLEAR"
- 9. Start Button -- "PUSH"
- 10. Engine -- "START"
- 11. Choke -- "OFF"
- 12. Radio -- "ON"

Ground Shut Down

- Throttle -- "CLOSED"
- 2. MAG Switch -- "OFF"
- 3. Master Switch -- "OFF"
- 4. Fuel Valve -- "OFF"

Air Shut Down

- Throttle -- "CLOSED"
- 2. Gentle Climb to Load Prop
- 3. MAG Switch -- "OFF"
- 4. Slow to Stop Prop
- 5. Choke -- "ON"

Air Restart - (Min. Altitude 1000 ft/A.G.L.)

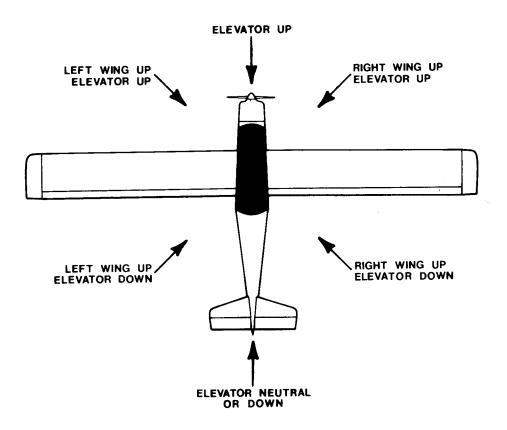
- Throttle -- "CRACKED"
- 2. Master Switch -- "ON"
- 3. MAG Switch -- "ON"
- 4. Choke -- "CLOSED"
- 5. Start Button -- "PUSH"
- Engine START -- If Engine Fails to Start Within 5 Seconds
 Choke "OFF". Push Start Button Until Engine Catches.
- 7. Choke -- "OFF"

TAXIING

When taxiing, it is important that speed and use of brakes be held to a minimum and that all controls be utilized to maintain directional control and balance.

Taxiing over loose gravel or cinders should be done at low engine RPM to avoid abrasion and stone damage to the propeller tips and under carriage of the fuselage. (See taxiing diagram below)

NOTE: For Moni it is best to taxi with the down wind wing down.



TAKE-OFF

It is important to check full-throttle engine operations early in the take-off run. Any signs of rough engine operation or sluggish engine acceleration is good cause for discontinuing the take-off. If this occurs, you are justified in making a thorough full-throttle, static runup before another take-off is attempted. The engine should run smoothly and turn approximately 5000 to 5500 RPM, depending on temperatures. NOTE: A normal two cycle "pick up" lag will be experienced until engine peaks to maximum take-off power.

Full throttle run ups over loose gravel are especially harmful to propeller tips. When take-offs must be made over a gravel surface, it is very important that the throttle be advanced slowly. This allows the airplane to start rolling before high RPM is developed, and the gravel will be blown back of the propeller rather than pulled into it. It is advisable to lift the tail as soon as possible to prevent blowing gravel against the tail surface. When small dents appear in the propeller blades, they should be immediately corrected as described in Section V.

CROSSWIND TAKE-OFF

Take-off into strong crosswinds normally are performed with the minimum amount of aileron and rudder necessary to minimize the drift angle immediately after take-off. The upwind wing should be down. The airplane is accelerated to a speed slightly higher than normal, then pulled off abruptly to prevent possible settling back to the runway while drifting. When clear of the ground, make a coordinated turn into the wind to correct for drift. Angling across the runway to minimize the crosswind component is acceptable

CLIMB DATA

For detailed data, see Maximum Rate-of-Climb data chart in Section VI.

CLIMB SPEEDS

Normal climbs are conducted at 65 MPH with full throttle for best engine cooling. The best rate of climb speed is approximately 70 MPH at sea level. Steep climbs at low speeds should be of short duration to allow improved engine cooling.

CRUISE

Normal cruising is done at 5500 RPM to 6000 RPM. Top speed is attained at 6250 RPM. Variation in temperature and altitude affect maximum RPM.

STALLS

The stall characteristics are convention for Moni. Slight buffeting will occur just before the stall. Properly rigged Moni will stall straight away.

Stall speeds of 38 MPH are obtained for aft c.g., full gross weight conditions. This is a calibrated airspeed because indicated airspeeds are unreliable near the stall.

SPINS

<u>Spins are prohibited in this airplane</u>, except when operating in the aerobatic c.g. limits. For recovery from an inadvertent or intentional spin, the following procedure should be used.

1. Retard throttle to idle (closed) position.

- Apply full rudder opposite to the direction of rotation.
 Aileron and elevator neutral.
- 3. After one-fourth turn, move control stick forward of neutral in a brisk motion.
- 4. As rotation stops, neutralize rudder, and make a smooth recovery from the resulting dive by applying back pressure to the control stick.

Prolonged or "deep" spins should be avoided.

NOTE: When engaged in aerobatics of any type wear a parachute!

LANDING

Normal landing approaches can be made with power-on or power-off at speeds of 45 MPH. Surface winds and air turbulence are usually the primary factors in determining the most comfortable approach speeds.

Add one-half of the headwind component to the approach speed.

Example: Landing into a 5 MPH head wind, add 2.5 MPH to approach speed.

Actual touchdown should be power-off and above stall speed (touching) main wheel first, then the tail wheel as speed decreases below

stall, control stick slightly Aft of normal till airspeed drops, then full back until the airplane comes to a full stop.

Apply breaking as necessary.

SHORT FIELD LANDINGS

For a maximum performance, short field landing in smooth air conditions, make an approach at 50 to 55 MPH using enough power to control the glide path. Fully deploy the airbrake. After all approach obstacles are cleared, progressively reduce power and maintain 50 MPH by lowering the nose of the airplane and slipping if necessary. Touchdown should be made with throttle closed and a wheel landing. Immediately after touchdown, hold Moni level and apply heavy braking as required. For maximum brake effectiveness, hold back pressure on control stick and apply maximum brake pressure without sliding the tire. Slightly higher approach speeds should be used under turbulent air conditions.

CROSSWIND LANDINGS

When landing in a strong crosswind, use a wing low, crab or a combination method of drift correction and land in a nearly level altitutde.

NOTE: Winds 15 knots or above, use extreme caution. Angle across runway to diminish crosswind component.

BALKED LANDING (GO AROUND)

In a balked landing (go-around) climb, apply full power, nose down, retract airbrake slowly until a safe airspeed is attained. Climb to a safe altitute, re-enter pattern.



EMERGENCY PROCEDURES

Emergencies caused by aircraft or engine malfunctions are extremely rare if proper pre-flight inspections and maintenance are practiced. Flight planning together with good judgment can minimize enroute weather emergencies. However, if an emergency should arise the basic guidelines described in this section should be considered and applied as necessary to correct the problem.

ROUGH ENGINE OPERATION OR LOSS OF POWER

SPARK PLUG FOULING

Salto Pri

A slight engine roughness in flight may be caused by one or more spark plugs becoming fouled by carbon or lead deposits. Two cycle engines have a normal rough midrange (3 to 4000 RPM). An obvious power loss in single ignition operation is evidence of spark plug or magneto trouble. Assuming that spark plugs are the likely cause, a leaner or richer mixture adjustment may be necessary. In an event, head for the nearest airport for repairs.

MAGNETO MALFUNCTION

A sudden engine roughness or misfiring is usually evidence of magneto problems. Select different power settings. If the problem still exists, it may be ignition wiring problems. In either case, head for the nearest airport for repairs

FORCE LANDINGS

PRECAUTIONARY LANDING WITH ENGINE POWER

Before attempting an "off airport" landing, one should drag the

landing area at a safe but low altitude to inspect the terrain

for obstructions and surface conditions, proceeding as follows:

- Drag over selected field at 65 MPH airspeed, noting the preferred area for touchdown for the next landing approach.
- On downwind leg, turn off all switches except "MAG" switch.
- 3. Approach field at 50 MPH.
- 4. Before touchdown turn mag switch "OFF".
- Wheel land. Stick full back when speed reduces below stall.

EMERGENCY LANDING WITHOUT ENGINE POWER

If an engine stoppage occurs, establish a glide 45 to 50 MPH. If time permits, attempt to restart the engine by checking for fuel quantity, proper fuel selector valve position. Also check that tachometer has not become grounded by turning off tach switch and check MAG swith is "ON".

If attempts to restart engine fail, select a suitable field and prepare for the landing as follows:

- Establish up wind glide. Use airbrakes on slip as necessary.
- 2. Wheel landing.
- 3. Apply heavy braking as necessary.

ENGINE FIRE IN FLIGHT

Engine fires are rare in flight, if one is encountered, the following steps should be taken:

- 1. Turn fuel shutoff valve "OFF".
- 2. All switches "OFF".
- 3. Establish a 55 MPH glide. Airbrake on as necessary.
- 4. Select a field suitable for a forced landing.
- 5. If fire is not extinguished, increase glide speed in an attempt to extinguish it.
- 6. Execute a forced landing as described in paragraph emergency landing without engine power.



OPERATING LIMITATIONS

Your Moni exceeds the requirements of airworthiness set forth by Monnett Experimental Aircraft as submitted to the F.A.A. The airplane is approved for day VFR operation only. Your Moni must be operated in accordance with all FAA - approved markings, placards and check lists in the airplane. If there is any contradiction to FAA approved markings, placards, etc. in this section, it is to be disregarded.

MANEUVERS - UTILITY CATEGORY

This airplane is in the utility category and is designed for limited aerobatic flight. The following paragraph will test maneuvers permitted in this airplane. In connection with the foregoing, the following gross weight and flight load factors apply, with maximum entry speeds for maneuvers as shown:

	UTILITY	AEROBATIC
Gross Weight	-550 LBS	500 LBS
Flight Load Factor	-4.4g's	+6-4g's

No aerobatic maneuvers are approved except those listed on the following page.

MANEUVER	The state of the s	MAXIMUM ENTRY SPEED
	- 25m (1351) (25m (26)	
Chandelles		120 mph
Lazy Eights		120 mph
Steep Turns		12 <u>0</u> mph
Spins		IDLĖ
Loops		120 mph
Aileron Rolls		120 mph
Rarrel Rolls		120 mph

Aerobatics that may impose high loads should not be attempted. The important thing to bear in mind in flight maneuvers is that the airplane is clean in aerodynamic design and will build up speed quickly with the nose down. Proper speed control is an essential requirement for execution of any maneuver, and care should always be exercised to avoid excessive speed which in turn can impose excessive loads. In the execution of all maneuvers, avoid abrupt use of controls. Always wear a parachute!

IDLE

AIRSPEED LIMITATION

Stalls (Except Whip Stalls)

The following is a list of the calibrated airspeed (CAS) limitations for the Moni.

Aircraft Weight	500 lbs.	550 lbs.
Never Exceed speed (glide or dive, smooth air)	150 MPH	150 MPH
Maximum Structural cruising speed	120 MPH	105 MPH
*Maneuvering speed	105 MPH	95 MPH
* Speed below which abrupt movement or controls	will not cau	60

* Speed below which abrupt movement or controls will not cause structural damage.

AIRSPEED INDICATOR MARKINGS

The following is a list of the calibrated airspeed markings (CAS) required on the Moni.

ENGINE INSTRUMENT MARKINGS

FUEL QUANTITY INDICATOR

Visual fuel in tube .5 gallon usable at - NO TAKE OFF (Red Line)

TACHOMETER

Normal Operating Range-----5000 to 6000 RPM

Maximum Allowable-----6300 RPM

CYLINDER HEAD TEMPERATURE GAUGE

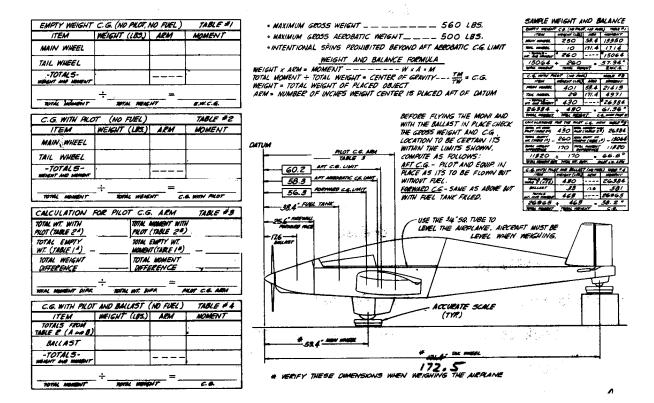
Normal Operating Range-----325^oF to 395^oF

Maximum Allowable-----430^oF

WEIGHT AND BALANCE

The following information will enable you to operate Moni within the prescribed weight and center of gravity limitations. To figure the weight and balance of your particular airplane, use the sample problem, loading graph and center of gravity moment envelope shown on plan sheet.

Consult the individual aircraft papers for actual weight and balance information.







CARE OF THE AIRPLANE

If your airplane is to retain that new-plane performance and dependability, certain inspection and maintenance requirements must be followed.

GROUND HANDLING

The airplane is most easily and safely maneuvered by hand if you grasp the tail wheel and tail surfaces leading edge at the tip and lift. The plane can now be moved forward or backward with ease.

MOORING YOUR AIRPLANE

Proper tie-down is the best precaution against damage to your parked airplane by gusty or strong winds. To tie down your airplane securely, proceed as follows:

- Lock control stick in far aft position using seat belt.
- 2. Tie strong ropes to wing and tail tie-down position, and secure each rope to ramp tie-downs. Flat tiedown straps may be used over the top of the wing.

- 3. Install a surface control lock over the fin and rudder.
- 4. Remove pitot tube.
- 5. Lock main wheel brake and airbrake.

CANOPY

The plastic canopy should be cleaned with an aircraft windshield cleaner. Apply the cleaner sparingly with soft cloths and rub with moderate pressure until all dirt, oil scum and bug stains are removed. Allow the cleaner to dry, then wipe it off with soft flannel cloths.

NOTE: NEVER USE gasoline, benzine, alcohol, acetone, carbon tetrachloride, fire extinguisher or anti-ice, lacquer thinner or glass cleaner to clean the plastic. These materials will attach the plastic and may cause it to craze.

<u>Do not rub</u> the plastic canopy with a dry cloth since this builds up an electrostatic charge which attracts dust. Waxing with a good commercial wax will finish the cleaning job. A thin, even coat of wax, polished out <u>by hand</u> with clean soft flannel cloths, will fill in minor scratches and help prevent further scratching.

<u>Do not use</u> a canvas cover on the canopy unless freezing rain or sleet is anticipated since the cover may scratch the plastic surface.

PAINTED SURFACES

The painted exterior surfaces of your Moni no doubt have a durable, long lasting finish and under normal conditions, requires no polishing or buffing. Generally, the painted surfaces can be kept bright by washing with water and mild soap, followed by a rinse with water and drying with cloths or a chamois.

Waxing may or may not be necessary to keep the painted surface bright. This will depend on the type of paint you used when you finished your plane. However, if desired, the airplane may be waxed with a good automotive wax. A heavier coating of wax on the leading edges of the wings and tail and on the cowl nose and propeller spinner will help reduce the abraison encountered in these areas.

ALUMINUM SURFACES

The aluminum surfaces of your Moni require only minimum care to keep them bright and clean. To remove dirt, wash with water, oil and grease may be removed with gasoline, naphtha, carbon tetrachloride or other non-alkaline solvents. Dulled aluminum surfaces may be cleaned effectively with an aircraft aluminum polish.

After cleaning, and periodically thereafter, waxing with a good automotive wax will preserve the bright appearance and retard corrosion.

PROPELLER CARE

Preflight inspection of propeller blades for nicks, and wiping them or cleaning and waxing occasionally to remove grass and bug stains will help ensure long, trouble-free service. Small nicks on the blades, particularly near the tips and on the leading edges, should be dressed out as soon as possible since these nicks produce stress concentrations, and if ignored, may result in cracks.

used not to remove enough material from the blade to create an unbalanced condition.

The torque movement of the screws (bolts) is very important. We

When filing or sanding nicks out, care should be

recommend for propellers with 5/16 - 24 UNF threads to use 160 in./lbs.

This is a dry thread value. Retorquing is required after the first flight and thereafter every 50 hours.

INTERIOR CARE

NOTE:

The plastic canopy, instrument panel and control knobs need only be wiped off with a damp cloth. Household or automotive interior cleaners may be used on the A.B.S. and molded fiberglass components.

A small portable vacuum cleaner works well to clean the under seat areas and aft fuselage.

FLYABLE STORAGE

Aircraft which are not in daily flight should have the engine started and warmed up at least once a week. Warm-up should be accomplished at a throttle setting necessary to produce a minimum engine temperature in the normal operating range. Excessive ground run-up should be avoided. Run-up should not exceed 10 minutes duration. Engine warm-up also helps to eliminate accumulations of water in the fuel system and other airspaces in the engine. Keep fuel tank full to minimize condensation in the tank.

INSPECTION PERIODS

Federal aviation regulations require that all airplanes have a periodic (annual) inspection as prescribed by the administrator, and performed by a person designated by the administrator.

AIRCRAFT FILE

There are miscellaneous data, information and licenses that are a part of the aircraft file. The following is a check list for that file. In addition, a periodic check should be made of the latest federal aviation regulations to ensure that all data requirements are met.

- A. To be displayed in the aircraft at all times:
 - 1. Aircraft airworthiness certificate (FAA Form 81-00-2)
 - 2. Aircraft registration certificate (FAA Form 8050-3)
 - Aircraft radio station license, if transmitter installed (FCC Form 556)
 - 4. Fire proof aircraft data plate.

- To be carried in the aircraft at all times: Β.
 - Weight and balance and associated papers (Repair and alteration form, FAA Form 337, if applicable).
 - Aircraft equipment list. 2.
- C. To be made available upon request:
 - 1. Aircraft log book Engine log book

2.

Most of the items listed are required by the United States Federal Aviation regulations. Since the regulations of other nations may require other documents and data, owners in other countries should check with their aviation officials to determine their requirements. FAR Part 43, maintenance, preventive maintenance, rebuilding and

alterations, is recommended as reference material. It does not apply to ameteur-built aircraft, but does provide worth while

guidance in recommended practices for type certificated aircraft.

LUBRICATION AND SERVICING DAILY PROCEDURES

FUEL TANK FILLER:

Service after each flight with proper fuel-oil mixture (see engine manual). The capacity of the tank is 4 gallons.

SERVICING CHECK LIST EACH 25 HOURS

(Applicable for Annual type inspection)

- 1. Engine Comportment
 - Clean engine and visually inspect for loose connections, leaks and cracks.

- B. Inspect engine mount, exhaust system, and cooling baffles for security, cracks or any maintenance required.
- C. Remove carburetor bottom cover and remove fuel screen and check for contaminants. Clean and reinstall.
- D. Remove spark plugs and check for proper spark gap. Clean or replace if necessary and reinstall.
- E. Check propeller for damage and for proper torque of prop mounting bolts.
- F. Visually check entire area for general condition: loose wire, chafing, etc.
- G. Lubricate engine controls and check for proper condition.H. Each 100 hours, perform compression test.
- 2. Cockpit Area
 - chafing, etc.

 B. Check fuel tank for leaks and security.

A. Check under instrument panel for general condition: loose wires,

- C. Check that all placards are installed properly and are legible.

 D. Check wing attachment area for loose fittings, cracks, etc.
- D. Check wing attachment area for loose fittings, cracks, etc.

 E. Inspect and lubricate control system. Check for proper oper-
- ation and condition.

 F. Check cockpit area and canopy for general condition.
- 3. Landing Gear and Wheel Pant
- A. Clean landing gear assembly and interior of wheel pant. Check for cracks in wheel assembly. Check tire for wear.
 - B. Lubricate wheel bearings (grease) if required. Check condition of bearings.
 - C. Check brake for proper operation and excessive wear of brake pad.
 - D. Check landing gear structure for security and condition.

4. Wings

- A. Check skin and structure for damage, loose rivets and general condition. (If an area is suspected of a broken bond, it may be check by using a suction cup to see if the skin can be lifted off of the structure underneath.)
- B. Check wing tips for looseness and condition. Check tip wheels for wear.
- C. Lubricate aileron hinges.

5. Fuselage and Emfennage

- A. Check skin and structure for damage, loose rivets and general condition.
- B. Check controls for proper operation and lubricate.
- C. Check tailwheel for proper operation and damage.
- D. Check security and condition of stabilizers and control surfaces.
 Inspect attach points for looseness, etc.

For areas requiring lubrication, use 10W30 motor oil or equivalent, unless otherwise noted.



OPERATIONAL DATA

The following operational data charts should be completed by the builder for his individual Moni during the flight test restriction period.

Variations in finish and weight will all significantly affect the performance of your Moni.

The charts are intended as a guide to accumulation data from your flight test period that will aid your future flight planning.

STALL SPEEDS	STALL SPEEDS - POWER - OFF -						
Gross Wt. 550 lbs.							
CONDITION	0 °	20 ⁰	40 ⁰	60 ⁰			
	Speeds a	re MPH, C	AS				

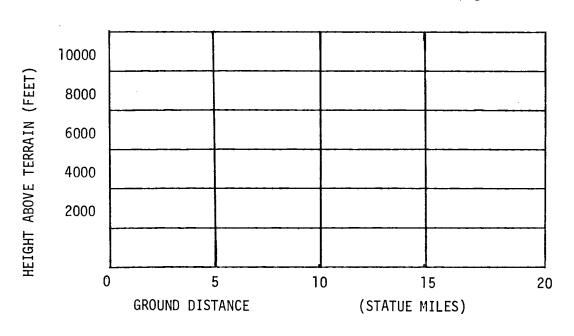
Ē	MANIMUM KAIE		ι Γ Ε Β	X - X - X - X - X - X - X - X - X - X -
	At Sea Level & 59 ⁰ F		At 2500 Ft. & 50 ⁰ F	At 5000 Ft. & 41 ⁰ F
Gross Weight LBS.	Rate of Fuel IAS Climb Used MPH Ft/Min Gal.	IAS MFP	Rate of Fuel Climb Used Ft/Min Gal.	Rate of Fuel IAS Climb Used MPH Ft/Min Gal.
Utility 560				
Aerobatic 500				
1. Full T 2. Fuel U 3. For Ho For Pa	hrottle Ised Includes Warm-U t Weather, Decrease rticular Altitude.	o and Take (Rate of Cl)ff Allowances. imb 15 Ft/Min fc	Full Throttle Fuel Used Includes Warm-Up and Take Off Allowances. For Hot Weather, Decrease Rate of Climb 15 Ft/Min for each 10 ⁰ F. Above Standard Day Temp. For Particular Altitude.

ם I	DISTANCE			CLEAN-HARD	CLEAN-HARD SURFACE RUNWAY	qΥ
Head Wind Knots	At Sea Lev Ground Run	At Sea Level & 59 ^o F Ground To Clear Run 50 Ft. OBS	At 2500 Ground Run	At 2500 Ft. & 50 ⁰ F Ground To Clear Run 50 Ft. OBS	At 5000 Ft. & 41 ⁹ F Ground To Clear Run 50 Ft. 0B	t. & 41 ⁰ F To Clear 50 Ft. 0BS
= 0.5	Increase the Distance 10% for each 35 ^o F. Increase in Temperature Above Standard for the Particular Altitude. For Operation on a Dry Grass Runway, Increase Distance (Both "Ground Run" and Total to Clear 50 ft. ORS) By 7% of the "Intal to Clear 50 Ft. ORS Figure	F. Increase ncrease Dista	in Tempera ince (Both	ture Above St	andard for ti and Total to	he Particular Clear 50 ft.

Approach Speed IAS, MPH
Decrease the Distances Shown by 10% for Each 4 Knots of Head Wind. Increase the Distance by 10% for Each 60 F. temperature Increase Above Standard. For Operation on a Dry, Grass Runway, Increase Distance (Both "Ground Roll" and "Total to Clear 50 Ft. Obstacle" Figure.

MAXIMUM GLIDE

SPEED MPH (IAS) PROPELLER STOPPED ZERO HENS W/WD



	Range Miles Standard			Maximum Cruise is Normally Limited to 75% Power. In the Above Calculations of Endurance in Hours and Range in Miles, No Allowances Were Made for Take-off or Reserve.
	Endurance Hrs. Standard Tank			and Range in M
•	Enc GAL/HR. Sta			o 75% Power. ce in Hours a
ANCE	TAS MPH GAL,			Limited to of Endurano Reserve.
RFORMANC	ВНР			s Normally culations ke-off or R
P E	RPM %			n Cruise is Above Calo ide for Tal
CRUIS	Altitude	2500	2000	1. Maximun 2. In the Were Ma



GENERAL DESCRIPTION OF AIRCRAFT "N" Number _____ Constructed by: Names: Aircraft Type: MONI Address____ Power Plant: KFM 107E Serial No. Eng. Address ____ Major Construction Material: Address Aluminum Date Construction Started Colors - Exterior _____ Date Construction Completed Special Features _____ FAA Approval By___ (name) FAA Office Phone_____ Date Approved for Flight____ Source of Plans, Kit, Replacement Parts: First Flight: Monnett Experimental Aircraft, Inc. 895 W. 20th Ave. Date____ P.O. Box 2984 Place____ Oshkosh, WI 54903 Pilot ____

Present Owner:

1. Name_____

Address_____

Serial Number of Aircraft

Model Number of Aircraft

