

OWNER'S MANUAL

PERFORMANCE and SPECIFICATIONS

HER PROPERTY OF THE PARTY OF TH	172	SKYHAWK
GROSS WEIGHT ,	, 2300 lbs	2300 lbs
Top Speed at Sea Level	. 138 mph . 130 mph	139 mph 131 mph
Cruise, 75% Power at 7000 ft	. 595 miles 4,6 hours 130 mph	600 miles 4.6 hours 131 mph
Optimum Range at 10,000 ft	720 miles 7,1 hours 102 mph	720 miles 7.1 hours 102 mph
RATE-OF-CLIMB AT SEA LEVEL	645 fpm 13, 100 ft	645 fpm 13, 100 ft
Ground Run Total Distance Over 50 Foot Obstacle LANDING:	. 865 ft . 1525 ft	865 ft 1525 ft
Landing Roll	520 ft 1250 ft	520 ft 1250 ft
	1260 lbs	1330 lbs
WING LOADING: Pounds/Sq Foot	120 lbs	120 lbs 13, 2
POWER LOADING: Pounds/HP FUEL CAPACITY: Total	15.9 42 gal.	15.9 42 gal.
OIL CAPACITY: Total	8 qts	8 qts
PROPELLER DIAMETER	76 in. Fixed Pitch	76 in, Fixed Pitch
POWER: Continental Engine No	O-300-C*	O-300-D 145

^{*}The Model F172, which is manufactured by Reims Aviation S. A., Reims (Marne) France, is identical to the 172 except that it is powered by an O-300-D engine, manufactured under license by Rells Royce, Crewe, England. All 172 information in this manual pertains to the F172 as well.

CONGRATULATIONS

Welcome to the ranks of Cessna owners! Your Cessna has been designed and constructed to give you the most in performance, economy, and comfort. It is our desire that you will find flying it, either for business or pleasure, a pleasant and profitable experience.

This Owner's Manual has been prepared as a guide to help you get the most pleasure and utility from your 172. It contains information about your Cessna's equipment, operating procedures, and performance; and suggestions for its servicing and care. We urge you to read it from cover to cover, and to refer to it frequently.

Our interest in your flying pleasure has not ceased with your purchase of a Cessna. World-wide, the Cessna Dealer Organization backed by the Cessna Service Department stands ready to serve you. The following services are offered by most Cessna Dealers:

FACTORY TRAINED MECHANICS to provide you with courteous expert service.

FACTORY APPROVED SERVICE EQUIPMENT to provide you with the most efficient and accurate workmanship possible.

A STOCK OF GENUINE CESSNA SERVICE PARTS on hand when you need them.

THE LATEST AUTHORITATIVE INFORMATION FOR SERV-ICING CESSNA AIRPLANES, since Cessna Dealers have all of the Service Manuals and Parts Catalogs, kept current by Service Letters and Service News Letters published by Cessna Aircraft Company.

We urge all Cessna owners to use the Cessna Dealer Organization to the fullest.

A current Cessna Dealer Directory accompanies your new airplane. The Directory is revised frequently, and a current copy can be obtained from your Cessna Dealer. Make your Directory one of your cross-country flight planning aids; a warm welcome awaits you at every Cessna Dealer.

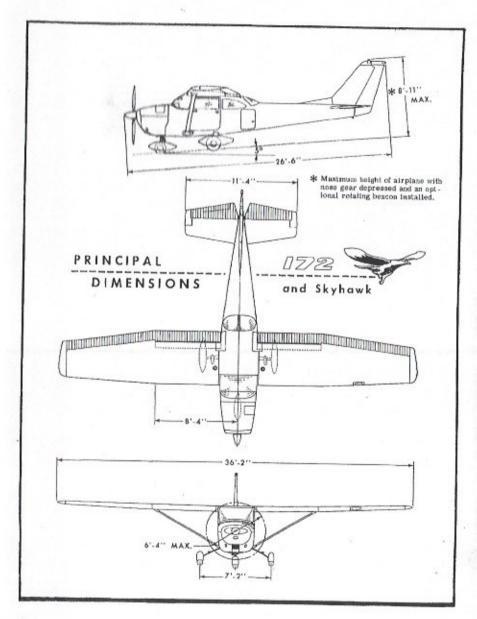


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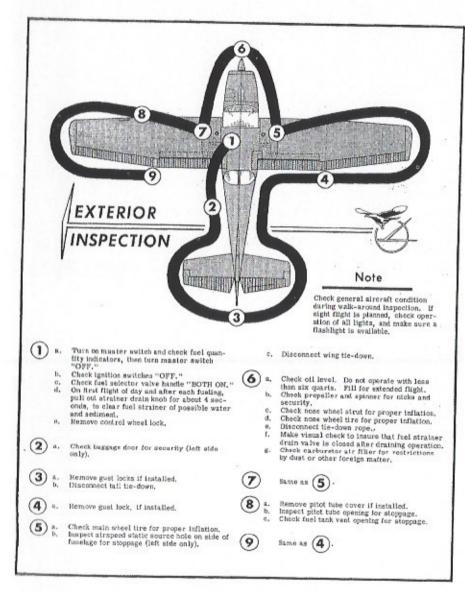


Figure 1-1

One of the first steps in obtaining the utmost performance, service, and flying enjoyment from your Cessna 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 airplane. 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 does cover briefly all of the points that you would want to or should know concerning the information you need for a typical flight.

The flight and operational characteristics of your airplane 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 and II are indicated airspeeds. Corresponding calibrated airspeed may be obtained from the Airspeed Correction Table in Section V.

BEFORE ENTERING THE AIRPLANE.

(1) Make an exterior inspection in accordance with figure 1-1.

BEFORE STARTING THE ENGINE.

- (1) Seats and Seat Belts -- Adjust and lock.
- (2) Brakes -- Test and set.
- (3) Master Switch -- "ON."
 (4) Fuel Selector -- "BOTH ON."

STARTING THE ENGINE.

- (1) Carburetor Heat -- Cold.
- (2) Mixture -- Rich.
- (8) Primer -- As required.
- (4) Ignition Switch -- "BOTH."
- (5) Throttle -- Open 1/8".
- (6) Propeller Area -- Clear.
- (7) Starter -- Engage.

BEFORE TAKE-OFF.

- (1) Throttle Setting -- 1600 RPM.
- (2) Engine Instruments -- Within green arc and generator light out.
- (3) Magnetos -- Check (75 RPM maximum differential between magnetos).
- (4) Carburetor Heat -- Check.
- (b) Flight Controls -- Check.
- (6) Trim Tab -- "TAKE-OFF."
- (7) Cabin Doors -- Closed and locked.
- (8) Flight Instruments and Radios -- Set.

TAKE-OFF.

NORMAL TAKE-OFF.

- (1) Wing Flaps -- 0°
- (2) Carburetor Heat -- Cold.
- (3) Power -- Full throttle (applied smoothly).
- (4) Elevator Control -- Lift nosewheel at 60 MPH.
- (5) Climb Speed -- 85 MPH.

MAXIMUM PERFORMANCE TAKE-OFF.

- (1) Wing Flaps -- 0°
- (2) Carburetor Heat -- Cold.
- (3) Brakes -- Apply.
- (4) Power -- Full throttle.
- (5) Brakes -- Release.
- (6) Elevator Control -- Slightly tail low.

(7) Climb Speed -- 65 MPH (with obstacles ahead).

CLIMB.

NORMAL CLIMB.

- (1) Airspeed -- 80 to 90 MPH.
- (2) Power -- Full throttle.
- (3) Mixture -- Full rich (unless engine is rough).

MAXIMUM PERFORMANCE CLIMB.

- (1) Airspeed -- 80 MPH at sea level to 77 MPH at 10,000 feet.
- (2) Power -- Full throttle.
- (3) Mixture -- Full rich (unless engine is rough.

CRUISING.

- (1) Power -- 2200 to 2700 RPM.
- (2) Trim Tab -- Adjust.
- (3) Mixture -- Lean.

LET-DOWN.

- (1) Mixture -- Rich.
- (2) Power -- As desired.
- (3) Carburetor Heat -- As required to prevent carburetor icing.

BEFORE LANDING.

- (1) Fuel Selector -- "BOTH ON,"
- (2) Mixture -- Rich.
- (3) Airspeed -- 70 80 MPH (flaps up).
- (4) Carburetor Heat -- Apply before closing throttle.
- (5) Flaps -- As desired (below 100 MPH).
- (6) Airspeed -- 65 to 75 MPH (flaps down).

NORMAL LANDING.

(1) Touchdown -- Main wheels first,

(2) Landing Roll -- Lower nosewheel gently.

(3) Braking -- Minimum required.

AFTER LANDING.

(1) Flaps -- Up.

(2) Carburetor Heat -- Cold.

SECURE AIRCRAFT.

(1) Mixture -- Full lean.

(2) All Switches -- "OFF."

(3) Brakes -- Set.

(4) Control Lock -- Installed.



The following paragraphs describe the systems and equipment whose function and operation is not obvious when sitting in the airplane. This section also covers in somewhat greater detail some of the items listed in Check List form in Section I. Only those items of the Check List requiring further explanation will be found here.

FUEL SYSTEM.

Fuel is supplied to the engine from two aluminum tanks, one in each wing. From these tanks, fuel flows by gravity through a selector valve and a strainer to the carburetor.

Refer to figure 2-1 for fuel quantity data. For fuel system servicing information refer to Lubrication and Servicing Procedures in Section 4.

FUEL QUANTITY DATA (U.S. GALLONS) TOTAL UNUSABLE USABLE FUEL ADDITIONAL FUEL ALL FLIGHT USABLE FUEL FUEL TANKS NO. VOLUME (LEVEL FLIGHT) (LEVEL FLIGHT) CONDITIONS EACH 0.5 gal. 21.0 gal. 19.5 gal. 1,0 gal. LEFT WING 21.0 gal. 0.5 gal. 19.5 gal. 1.0 gal. RIGHT WING

Figure 2-1.

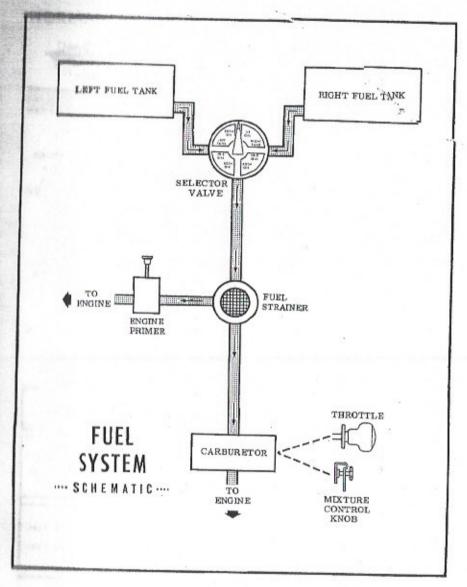


Figure 2-2

FUEL STRAINER DRAIN KNOB.

Refer to fuel strainer servicing procedures, Section 4.

ELECTRICAL SYSTEM.

Electrical energy is supplied by a 14-volt, direct-current system powered by an engine-driven generator. A 12-volt storage battery is located on the left-hand forward portion of the firewall.

CIRCUIT BREAKERS.

All electrical circuits in the airplane, except the clock circuit, are protected by circuit breakers. The clock has a separate fuse mounted adjacent to the battery. The stall warning unit, flap position indicator, turn-and-bank indicator and the optional gyro horizon test lights circuits are protected by a single automatically resetting circuit breaker mounted behind the instrument panel. The cigar lighter is protected by a manually-reset type circuit breaker mounted directly on the back of the lighter behind the instrument panel. The remaining circuits are protected by "push-to-reset" breakers on the instrument panel.

GENERATOR WARNING LIGHT.

The red generator warning light indicates generator output. The light remains off as long as the generator functions properly. If a malfunction interrupts generator output, the light will illuminate. It also will illuminate when the battery or external power is on, before starting the engine, and whenever engine speed is insufficient to produce generator output. The light does not show battery drain.

LANDING LIGHTS.

A three-position, push-pull switch controls the optional landing lights. To turn one lamp on for taxing, pull the switch out to the first stop. To turn both lamps on for landing, pull the switch out to the second stop.

CABIN HEATING AND VENTILATION SYSTEM.

For cabin ventilation, pull the "CABIN AIR" knob out. To raise the air temperature, pull the "CABIN HT" knob out approximately 1/4" to 1/2" for a small amount of cabin heat. Additional heat is available by pulling the knob out farther; maximum heat is available with the "CABIN HT" knob pulled full out and the "CABIN AIR" knob pushed full in. When no heat is desired in the cabin, the "CABIN HT" knob is pushed full in.

STARTING ENGINE.

Ordinarily the engine starts easily with one or two strokes of the primer in warm temperatures to six strokes in cold weather, with the throttle open approximately 1/8 inch. In extremely cold temperatures, it may be necessary to continue priming while cranking.

Weak intermittent explosions followed by puffs of black smoke from the exhaust stack indicates overpriming or flooding. Excess fuel can be cleaned from the combustion chambers by the following procedure: Set the mixture control full lean and the throttle full open; then crank the engine through several revolutions with the starter. Repeat the starting procedure without any additional priming.

If the engine is underprimed (most likely in cold weather with a cold engine) it will not fire at all, and additional priming will be necessary. As soon as the cylinders begin to fire, open the throttle slightly to keep it running.

After starting, if the oil gage does not begin to show pressure within 30 seconds in the summertime and about twice that long in very cold weather, stop engine and investigate. Lack of oil pressure can cause serious engine damage. After starting, avoid the use of carburetor heat unless icing conditions prevail.

TAXIING.

When taxiing, it is important that speed and use of brakes be held to a minimum and that all controls be utilized (see taxiing diagram, figure 2-3 to maintain directional control and balance.

Taxiing over loose gravel or cinders should be done at low engine speed to avoid abrasion and stone damage to the propeller tips. Full

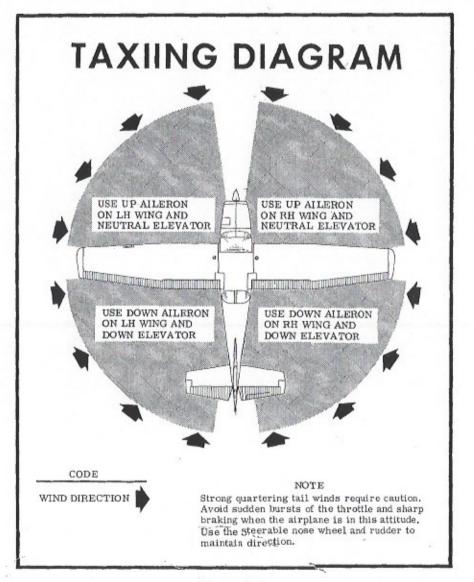


Figure 2-3.

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. When unavoidable small dents appear in the propeller blades, they should be immediately corrected as described in Section 4 under propeller care.

BEFORE TAKE-OFF.

WARM UP.

Since the engine is closely cowled for efficient in-flight engine cooling, precautions should be taken to avoid overheating during prolonged engine operation on the ground.

MAGNETO CHECK.

The magneto check should be made at 1600 RPM as follows: Move the ignition switch first to "R" position, and note RPM. Next move the switch back to "BOTH" position to clear the other set of plugs. Then move the switch to the "L" position and note RPM. The difference between the two magnetos operated individually should not be more than 75 RPM.

HIGH RPM MAGNETO CHECKS.

If there is a doubt concerning the operation of the ignition system, RPM checks at higher engine speeds will usually confirm whether a deficiency exists. If a full throttle run-up is necessary the engine should run smoothly and turn approximately 2230 to 2330 RPM with the carburetor heat off.

An absence of RPM drop may be an indication of faulty grounding of one side of the ignition system or should be cause for suspicion that the magneto timing has been "bumped-up" and is set in advance of the setting specified.

TAKE-OFF.

POWER CHECK.

Since the use of full throttle is not recommended in the static run-up, it is important to check full-throttle engine operation 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 run-up before another take-off is attempted.

Prior to take-off from fields above 5000 ft. elevation, the mixture should be leaned to give maximum RPM in a full-throttle, static run-up.

WING FLAP SETTINGS.

Normal and obstacle clearance take-offs are performed with wing flaps up. The use of 10° flaps will shorten the ground run approximately 10%, but this advantage is lost in the climb to a 50-foot obstacle. Therefore the use of 10° flap is reserved for minimum ground runs or for take-off from soft or rough fields with no obstacles ahead.

If 10° of flaps are used in ground runs, it is preferable to leave them extended rather than retract them in the climb to the obstacle. The exception to this rule would be in a high altitude take-off in hot weather where climb would be marginal with flaps 10° (1st notch).

Flap deflections of 30° to 40° are not recommended at any time for take-off.

PERFORMANCE CHARTS.

Consult the take-off chart in Section 5, for take-off distances under various gross weight, altitude, and headwind conditions.

CROSSWIND TAKE-OFFS.

Take-offs into strong crosswinds normally are performed with the minimum flap setting necessary for the field length, to minimize the drift angle immediately after take-off. 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.

CLIMB.

For detailed data, refer to the Climb Performance Charts in Section 5.

CLIMB SPEEDS.

Normal climbs are performed at 80 to 90 MPH with flaps up and full throttle for best engine cooling. The mixture should be full rich unless the engine is rough due to too rich a mixture. The best rate of climb speeds range from 80 MPH at sea level to 77 MPH at 10,000 feet. If an obstacle dictates the use of a steep climb angle, the best angle-of-climb speed should be used with flaps up and full throttle. These speeds vary from 65 MPH at sea level to 71 MPH at 10,000 feet.

NOTE

Steep climbs at these low speeds should be of short duration to improve engine cooling.

CRUISE.

Normal cruising is done between 65% and 75% power. The power settings required to obtain these powers at various altitudes and outside air temperatures can be determined by using your Cessna Power Computer.

Cruising can be done most efficiently at high altitudes because of lower air density and therefore lower airplane drag. This is illustrated in the following table which shows performance at 75% power at various altitudes.

ALTITUDE	RPM	TRUE AIRSPEED	RANGE
Sea Level	*2450	123	565
5000 ft.	*2560	128	585
7000 ft.	*Full Throttle	130	595

All figures are based on lean mixture, 39 gallons of fuel (no reserve), zero wind, standard atmospheric conditions, and 2300 pounds gross weight.

STALLS.

The stall characteristics are conventional and aural warning is provided by a stall warning horn which sounds between 5 and 10 MPH above the stall in all configurations.

Power-off stall speeds at maximum gross weight and aft c.g. condition are presented on page 5-2 as calibrated airspeeds.

LANDING.

Normal landings are made power-off with any flap setting. Slips are prohibited in full flap approaches because of a downward pitch encountered under certain combinations of airspeed and sideslip angle.

SHORT FIELD LANDINGS.

For a short field landing, make a power-off approach at approximately 67 MPH with flaps 40° (fourth notch) and land on the main wheels first. Immediately after touchdown, lower the nose gear to the ground and apply heavy braking as required. Raising the flaps after landing will provide more efficient braking.

CROSSWIND LANDINGS.

When landing in a strong crosswind, use the minimum flap setting required for the field length. Use a wing-low, crab, or a combination method of drift correction and land in a nearly level attitude. Hold a

straight course with the steerable nosewheel and occasional braking if necessary.

COLD WEATHER OPERATION.

Prior to starting on cold morning, it is advisable to pull the propeller through several times by hand to "break loose" or "limber" the oil, thus conserving battery energy. In extremely cold (0°F and lower) weather, the use of an external preheater for both the engine and battery is recommended whenever possible to reduce wear and abuse to the engine and the electrical system. When using an external power source, the position of the master switch is important. Refer to Section 6, GROUND SERVICE PLUG RECEPTACLE, for operating details. Cold weather starting procedures are as follows:

With Preheat:

(1) Clear propeller.

(2) Pull master switch "ON."

(3) With magneto switch "OFF" and throttle closed, prime the engine four to ten strokes as the engine is being turned over.

NOTE

Use heavy strokes of primer for best atomization of fuel. After priming, push primer all the way in and turn to locked position to avoid possibility of engine drawing fuel through the primer.

(4) Turn magneto switch to "BOTH."

(5) Open throttle 1/4" and engage starter,

Without Preheat:

(1) Prime the engine 8 to 10 strokes while the propeller is being turned by hand.

(2) Clear propeller.

(3) Pull master switch "ON."

(4) Turn magneto switch to "BOTH."

(5) Open throttle 1/4".

(6) Pull carburetor air heat knob full on.

(7) Engage starter and continue to prime engine until it is runce ning smoothly.

MODIFIED FUEL MANAGEMENT PROCEDURES

With a combination of highly volatile fuel, high fuel temperature, high operating altitude, and low fuel flow rate in the tank outlet lines, there is a remote possibility of accumulating fuel vapor and encountering power irregularities on some airplanes. To minimize this possibility, the following operating procedures are recommended:

Take-off and climb to cruise altitude on "both" tanks.
 (This is consistent with current recommendations.)

(2) When reaching cruise altitude above 5000 feet MSL, promptly switch the fuel selector valve from "both" tanks to either the "right" or "left" tank.

(3) During cruise, use "left" and "right" tank as required.

(4) Select "both" tanks for landing as currently recommended.

POWER RECOVERY TECHNIQUES

In the remote event that vapor is present in sufficient amounts to cause a power irregularity, the following power recovery techniques should be followed:

OPERATION ON A SINGLE TANK

Should power irregularities occur when operating on a single tank, power can be restored immediately by switching to the opposite tank. In addition, the vapor accumulation in the tank on which the power irregularity occurred will rapidly dissipate itself such that that tank will also be available for normal operation after it has been unused for approximately one (1) minute.

OPERATION ON BOTH TANKS

Should power irregularities occur with the fuel selector on both tanks, the following steps are to be taken to restore power:

(1) Switch to a single tank for a period of 60 seconds.

(2) Then switch to the opposite tank and power will be restored.



OPERATIONS AUTHORIZED.

Your Cessna with standard equipment as certificated under FAA Type Certificate No. 3A12 is approved for day and night operation under VFR.

Additional optional equipment is available to increase its utility and to make it authorized for use under IFR day and night. An owner of a properly equipped Cessna is eligible to obtain approval for its operation on single-engine scheduled airline service on VFR.

MANEUVERS - NORMAL CATEGORY.

The airplane exceeds the requirements of the Civil Air Regulations, Part 3, set forth by the United States Government for airworthiness. Spins and aerobatic maneuvers are not permitted in normal category airplanes in compliance with these regulations. In connection with the foregoing, the following gross weights and flight load factors apply:

Gross Weight													. 230	0 lbs.
Flight Load Factor *	Flaps	Up .											+3.8	-1.52
Flight Load Factor *	Flaps	Down				0.0							+3.5	
*The design load	factor	rs are	15	509	6 0	f th	e a	abo	ve) a	nd			
in all cases the	struct	ture m	ee	ets	or	ex	ce	eds	d	es	ig	n		
loads.														

Your airplane must be operated in accordance with all FAA approved markings, placards and check lists in the airplane. If there is any information in this section which contradicts the FAA approved markings, placards and check lists, it is to be disregarded.

MANEUVERS - UTILITY CATEGORY.

This airplane is not designed for purely aerobatic flight. However, in the acquisition of various certificates such as commercial pilot, instrument pilot and flight instructor, certain maneuvers are required by the FAA. All of these maneuvers are permitted in this airplane when operated in the utility category. In connection with the utility category, the following gross weight and flight load factors apply, with recommended entry speeds for maneuvers as shown.

Maximum Design Weight				,	. 2000 lbs.
Flight Maneuvering Load	Factor,	Flaps Up .			+4.4 -1.76
Flight Maneuvering Load	Factor,	Flaps Down			+3.5

No acrobatic maneuvers are approved except those listed below:

Maneuver															Entry Speed
Chandelles .								v							122 mph (106 knots)
Lazy Eights.		•													122 mph (106 knots)
Steep Turns.												,			122 mph (106 knots)
Spins															Slow Deceleration
Stalls (Except	V	Vhi	p	St	all	s)									Slow Deceleration
The bagga	ag	e e	ĊO	m	ar	tn	nei	nt	an	d:	re	ar	80	eat	must

Aerobatics that may impose high inverted loads should not be attempted. The important thing to bear in mind in flight maneuvers is that your Cessna 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.

AIRSPEED LIMITATIONS.

RED LINE												174 mph
YELLOW ARC												140-174 mph
GREEN ARC .												59-140 mph
WHITE ARC .												52-100 mph
MANEUVERING	3 8	SP.	EE	D	*							122 mph

*The maximum speed at which you can use abrupt control travel without exceeding the design load factor.

NOTE

RED LINE	Maximum Speed (Glide or dive, smooth air).
YELLOW ARC .	Caution Range (Level flight or climb).
GREEN ARC	Normal Range (Level flight or climb).
WHITE ADC	Flan Operating Pange

ENGINE OPERATION LIMITATIONS.

Power and Speed:

145 bhp at 2700 rpm

ENGINE INSTRUMENT MARKINGS.

OIL TEMPERATURE GAGE.

Normal Operating Range						,	Green Arc
Maximum Allowable							Red Line

OIL PRESSURE GAGE.

Minimum Idling .					*	20		10 psi (red line)
Normal Operating	R	an	ge					30-60 psi (green arc)
Maximum								100 psi (red line)

FUEL QUANTITY INDICATORS.

EMPTY.								٠							Е	(red	line)
1.50	galle	ons	un	usa	abl	e e	eac	ch	tai	nk								

TACHOMETER.

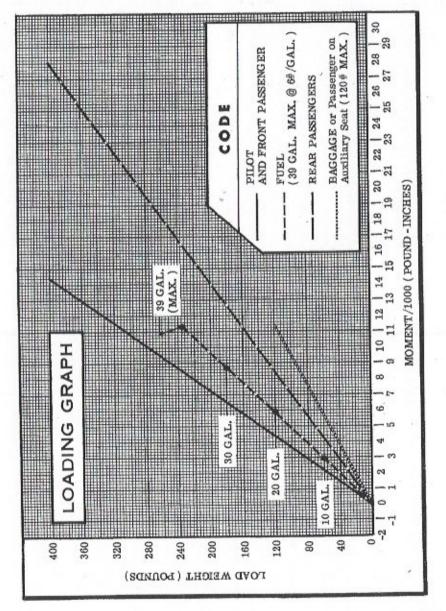
Normal Operating Range:					
At sea level (inner green arc)	•				2200-2500
At 5000 feet (middle green arc) .					
At 10,000 feet (outer green arc).					2200-2700
Maximum Allowable (Red line)					2700

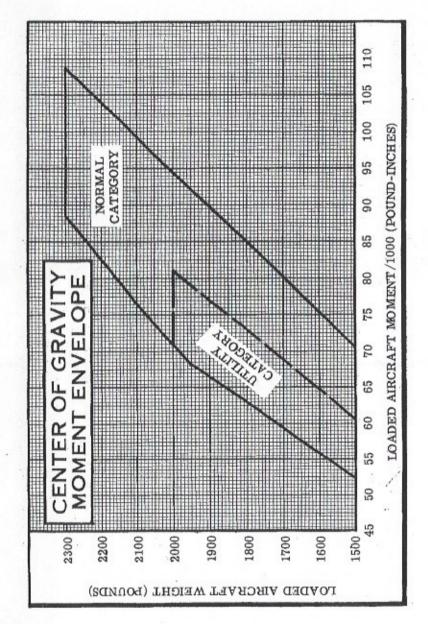
WEIGHT AND BALANCE.

The following information will enable you to operate your Cessna within the prescribed weight and center of gravity limitations. To figure the weight and balance for your particular airplane, use the Sample Problem, Loading Graph, and Center of Gravity Moment Envelope as follows:

Take the licensed Empty Weight and Moment/1000 from the Weight and Balance Data sheet, plus any changes noted on forms FAA-337, carried in your airplane, and write them down in the proper columns. Using the Loading Graph determine the moment/1000 of each item to be carried. Total the weights and moments/1000 and use the Center of Gravity Moment Envelope to determine whether the point falls within the envelope and if the loading is acceptable.

172	Sample	Airplone	Your A	irplane
SAMPLE LOADING PROBLEM	Weight (lbs)	Moment (lb - ins. /1000)	Weight	Moment
1, Licensed Empty Weight (Sample Airplane)	1321	50.4		
2. Oil - 8 Qts.*	15	-0.3	15	-0.3
3. Pilot & Front Passenger	340	12.2		
4. Fuel- (39 Gal at 6#/Gal)	234	11,2		
5. Rear Passengers	340	23.8		
6. Baggage (or Pessenger on Auxiliary Seat)	50	4.7		
7. Total Aircraft Weight (Leaded)	2300	102.0		







If your airplane is to retain that new plane performance and dependability, certain inspection and maintenance requirements must be followed. It is always wise to follow a planned schedule of lubrication and maintenance based on the climatic and flying conditions encountered in your locality.

Keep in touch with your Cessna Dealer and take advantage of his knowledge and experience. He knows your airplane and how to maintain it. He will remind you when lubrications and oil changes are necessary and about other seasonal and periodic services.

GROUND HANDLING.

The airplane is most easily and safely maneuvered by hand with the tow-bar attached to the nosewheel.

NOTE

When using the tow-bar, never exceed the turning angle of 30°, either side of center, or damage to the gear will result.

MOORING YOUR AIRPLANE.

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

- (1) Set the parking brake and install the control wheel lock.
- (2) Install a surface control lock between each aileron and flap.
- (3) Tie sufficiently strong ropes or chains (700 pounds tensile strength) to wing, tail, and nose tie-down fittings and secure each rope to ramp tie-down.

(4) Install a surface control lock over the fin and rudder.

(5) Install a pitot tube cover.

WINDSHIELD -WINDOWS.

The plastic windshield and windows should be kept clean and waxed at all times. To prevent scratches and crazing, wash them carefully with plenty of soap and water, using the palm of the hand to feel and dislodge dirt and mud. A soft cloth, chamois or sponge may be used, but only to carry water to the surface. Rinse thoroughly, then dry with a clean, moist chamois. Rubbing the surface of the plastic with a dry cloth builds up an electrostatic charge so that it attracts dust particles in the air. Wiping with a moist chamois will remove both the dust and this charge.

Remove oil and grease with a cloth moistened with kerosene. Never use gasoline, benzine, alcohol, acetone, carbon tetrachloride, fire extinguisher or anti-ice fluid, lacquer thinner or glass cleaner. These materials will soften the plastic and may cause it to craze.

After removing dirt and grease, if the surface is not badly scratched, it should be waxed with a good grade of commercial wax. The wax will fill in minor scratches and help prevent further scratching. Apply a thin, even coat of wax and bring it to a high polish by rubbing lightly with a clean, dry, soft flannel cloth. Do not use a power buffer; the heat generated by the buffing pad may soften the plastic.

Do not use a canvas cover on the windshield unless freezing rain or sleet is anticipated. Canvas covers may scratch the plastic surface.

PAINTED SURFACES.

The painted exterior surfaces of your new Cessna require an initial curing period which may be as long as 90 days after the finish is applied. During this curing period some precautions should be taken to avoid damaging the finish or interfering with the curing process. The finish should be cleaned only by washing with clean water and mild soap, followed by a rinse with water and drying with cloths or a chamois. Do not use polish or wax, which would exclude air from the surface, during this 90-day curing period. Do not rub or buff the finish and avoid flying through rain, hail or sleet.

Once the finish has cured completely, it 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 engine nose cap and propeller spinner will help reduce the abrasion encountered in these areas.

ALUMINUM SURFACES.

The clad aluminum surfaces of your Cessna require only a minimum of care to keep them bright and clean. The airplane may be washed with clear water to remove dirt; 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. Regular waxing is especially recommended for airplanes operated in salt water areas as a protection against corrosion.

PROPELLER CARE.

Preflight inspection of propeller blades for nicks, and wiping them occasionally with an oily cloth to clean off grass and bug stains will assure long, trouble-free service. It is vital that small nicks on the propellers, particularly near the tips and on the leading edges, are dressed out as soon as possible since these nicks produce stress concentrations, and if ignored, may result in cracks. Never use an alkaline cleaner on the blades; remove grease and dirt with carbon tetrachloride or Stoddard solvent.

INTERIOR CARE.

To remove dust and loose dirt from the upholstery, headliner, and carpet, clean the interior regularly with a vacuum cleaner.

Blot up any spilled liquid promptly, with cleansing tissue or rags. Don't pat the spot; press the blotting material firmly and hold it for several seconds. Continue blotting until no more liquid is taken up. Scrape off sticky materials with a dull knife, then spot-clean the area.

Oily spots may be cleaned with household spot removers, used sparingly. Before using any solvent, read the instructions on the container

and test it on an obscure place on the fabric to be cleaned. Never saturate the fabric with a volatile solvent; it may damage the padding and backing materials.

Soiled upholstery and carpet may be cleaned with foam-type detergent, used according to the manufacturer's instructions. To minimize wetting the fabric, keep the foam as dry as possible and remove it with a vacuum cleaner.

The plastic trim, instrument panel and control knobs need only be wiped off with a damp cloth. Oil and grease on the control wheel and control knobs can be removed with a cloth moistened with kerosene. Volatile solvents, such as mentioned in paragraphs on care of the windsheid, must never be used since they soften and craze the plastic.

INSPECTION SERVICE AND INSPECTION PERIODS.

With your airplane you will receive an Owner's Service Policy. Coupons attached to the policy entitle you to an initial inspection and the first 100-hour inspection at no charge. If you take delivery from your Dealer, he will perform the initial inspection before delivery of the airplane to you. If you pick up the airplane at the factory, plan to take it to your Dealer reasonably soon after you take delivery on it. This will permit him to check it over and to make any minor adjustments that may appear necessary. Also, plan an inspection by your Dealer at 100 hours or 90 days, whichever comes first. This inspection also is performed by your Dealer for you at no charge. While these important inspections will be performed for you by any Cessna Dealer, in most cases you will prefer to have the Dealer from whom you purchased the airplane accomplish this work.

Civil Air Regulations require that all airplanes have a periodic (annual) inspection as prescribed by the administrator, and performed by a person designated by the administrator. In addition, 100-hour periodic inspections made by an "appropriately-rated mechanic" are required if the airplane is flown for hire. The Cessna Aircraft Company recommends the 100-hour periodic inspection for your airplane. The procedure for this 100-hour inspection has been carefully worked out by the factory and is followed by the Cessna Dealer Organization. The complete familiarity of the Cessna Dealer Organization with Cessna equipment and with factory-approved procedures provides the highest type of service possible at lower cost.

OWNER FOLLOW-UP SYSTEM



Your Cessna Dealer has an owner follow-up system to notify you when he receives information that applies to your Cessna. In addition, if you wish, you may choose to receive similar notification directly from the Cessna Service Department. A subscription card is supplied in your airplane file for your use, should you choose to request this service. Your Cessna Dealer will be glad to supply you with details concerning these follow-up programs, and stands ready through his Service Department to supply you with fast, efficient, low cost service.

AIRPLANE FILE.

There are miscellaneous data, information and licenses that are a part of the airplane file. The following is a check list for that file. In addition, a periodic check should be made of the latest Civil Air Regulations to insure that all data requirements are met.

- A. To be displayed in the airplane at all times:
 - (1) Aircraft Airworthiness Certificate (Form FAA-1362).
 - (2) Aircraft Registration Certificate (Form FAA-500A).
 - (3) Airplane Radio Station License (Form FCC-404, if transmitter installed).
- B. To be carried in the airplane at all times:
 - (1) Weight and Balance, and associated papers (latest copy of the Repair and Alteration Form, Form FAA-337, if applicable).
 - (2) Airplane Equipment List.
- C. To be made available upon request:
 - (1) Airplane Log Book,
 - (2) Engine Log Book.

NOTE

Cessna recommends that these items plus the Owner's Manual and the "Cessna Flight Guide" (Flight Computer) be carried in the airplane at all times.

Most of the items listed are required by the United States Civil Air

Regulations. Since the regulations of other nations may require other documents and data, owners of exported airplanes should check with their own aviation officials to determine their individual requirements.

LUBRICATION AND SERVICING PROCEDURES

Specific servicing information is provided here for items requiring daily attention. A Service Frequency Check List is included to inform the pilot when to have other items checked and serviced.

DAILY

FUEL TANK FILLERS:

Service after each flight with 80/87 minimum grade fuel. The capacity of each wing tank is 21 gallons.

FUEL STRAINER:

On the first flight of the day and after each refueling, pull out fuel strainer drain knob for about four seconds, to clear fuel strainer of possible water and sediment. Release drain knob, then check that strainer drain is closed after draining.

OIL FILLER:

When preflight check shows low oil level, service with aviation grade engine oil; SAE 20 below 40°F. and SAE 40 above 40°F. Your Cessna was delivered from the factory with straight mineral oil (non-detergent) and should be operated with straight mineral oil for the first 25 hours. The use of mineral oil during the 25-hour break-in period will help seat the piston rings and will result in less oil consumption. After the first 25 hours, either mineral oil or detergent oil may be used. If a detergent oil is used, it must conform to Continental Motors Corporation Specification MHS-24. Your Cessna Dealer can supply an approved brand.

OIL DIPSTICK:

Check oil level before each flight. Do not operate on less than 6 quarts and fill if an extended flight is planned. The oil capacity of the engine is 8 quarts.

SERVICING INTERVALS CHECK LIST

EACH 25 HOURS

BATTERY -- Check and Service.

ENGINE OIL -- Change.

ENGINE OIL SCREEN -- Clean.

INDUCTION AIR FILTER -- Clean or Replace. Under extremely dusty conditions, daily maintenance of the filter is recommended.

NOSE GEAR TORQUE LINKS -- Lubricate.

EACH 100 HOURS

BRAKE MASTER CYLINDERS -- Check and fill.

GYRO INSTRUMENT AIR FILTERS (OPT) -- Replace. Replace sooner if erratic or sluggish responses are noted with normal suction gage readings.

SHIMMY DAMPENER -- Check and fill.

SUCTION RELIEF VALVE INLET SCREEN -- Check inlet screen for dirt or obstructions.

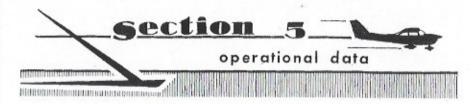
FUEL TANK SUMP DRAINS -- Drain water and sediment.

FUEL LINE DRAIN PLUG -- Drain water and sediment.

VACUUM SYSTEM OIL SEPARATOR -- Clean.

EACH 500 HOURS

WHEEL BEARINGS -- Lubricate. Lubricate at first 100 hours and at 500 hours thereafter.



The Operational Data shown on the following pages are compiled from actual tests with airplane and engine in good condition and using average piloting technique and best power mixture. You will find this data a valuable aid when planning your flights. However, inasmuch as the number of variables included precludes great accuracy, an ample fuel reserve should be provided. The range performance shown makes no allowance for wind, navigational error, pilot technique, warm-up, take-off, climb, etc. All of these factors must be considered when estimating reserve fuel.

A power setting selected from the range charts usually will be more efficient than a random setting, since it will permit you to estimate your fuel consumption more accurately. You will find that using the charts and your Power Computer will pay dividends in overall efficiency.

Range and endurance figures shown in the charts are based on flight test using McCauley 1C172/EM 7653 propeller. Other conditions of the tests are shown in the chart headings. Allowances for fuel reserve, headwinds, take-offs, and climb, and variations in mixture leaning technique should be made and are in addition to those shown on the charts. Other indeterminate variables such as carburetor metering-characteristics, engine and propeller conditions, and turbulence of atmosphere may account for variations of 10% or more in maximum range.

AIRSPEED CORRECTION TABLE

FLAPS	IAS	40	50	60	70	80	90	100	110	120	130	140
FLAPS UP	CAS	55	60	66	72	80	89	98	108	117	127	136
FLAPS DOWN	CAS	52	58	65	73	82	91	101	•	•	•	•

Figure 5-1.

POWER OFF STALLING SPEEDS MPH - CAS

	1731 2 17 10 10		ANGLE OF	F BANK	FORESCHIEF!
1	CONDITION	0 °	20°	40°	60°
	FLAPS UP	57	59	65	81
GROSS WEIGHT	FLAPS 10°	52	54	59	74
T, CIOHI	FLAPS 40°	49	51	56	69

Figure 5-2.

		TAKE-C	JFF DIST	TAKE. TAKE-OFF DISTANCE FROM	HARD	SURFACE RUNWAY, FLAPS UP	RUNWA	Y, FLAPS	dn.	
GROSS	IAS	HEAD	T'S ®	@ S.L. &. 59° F	@ 2500 f	ft. & 50° F	@ 5000	ft. & 41º F	@ 7500 ft. & 32°	. & 32° F
WEIGHT LBS.	AT 50 FT.	KNOTS	GROUND RUN	TO CLEAR 50° OBS.	GROUND	TO CLEAR O	GROUND	TO CLEAR SO' OBS.	GROUND	TO CLEAR 50' OBS.
1700	09	30 20	435 29.0 17.5	780 570 385	520 355 215	920 680 470	625 430 270	1095 820 575	765 535 345	1370 1040 745
2000	65	0 10 20	630 435 275	1095 820 580	755 530 340	1325 1005 720	905 645 425	1625 1250 910	1120 810 595	2155 1665 1255
2300	7.0	0 10 20	865 615 405	1525 1170 850	1040 750 505	1910 1485 1100	1255 920 630	2480 1955 1480	1565 1160 810	3855 3110 2425
NOTE	Increase	distance	10% f	or each 2	5°F abov	NOTE Increase distance 10% for each 25°F above standard temperature for	femper	ature for	particular	altitud

Figure 5-3.

		MA	X	N	RA	TE-C	SF-C	MAXIMUM RATE-OF-CLIMB DATA	8	ATA		
	(0)	@ S.L & 59°	F	(0)	@ 5000 FT & 41° F	41º F	(01 0)	@ 10,000 FT & 23°	23° F	(8 15,	@ 15,000 F7 & 5° F	5º F
GROSS WEIGHT LBS.	SAI MPH	RATE OF CLIMB FT/MIN.	GALS OF FUEL USED	IAS MPH	RATE OF CLIMB FT/MSN.	FROM S.L. FUEL USED	MPH MPH	RATE OF CLIMB FT/MIN.	FROM S.L. FUEL USED	IAS MPH	RATE OF CLIMB FT/MIN,	FRO/ S.L. FUE USE
1700	7.5	1085	1.0	73	825	1.9	77	920	2.9	7.0	315	4.4
2000	11	940	1.0	26	019	2.2	7.4	380	3.6	7.3	155	6.3
2300	9.0	645	1.0	7.8	435	2.6	11	230	4.6	7.6	22	11.5
NOT	E Flaps	up, ful	throff	e and	NOTE Flaps up, full throttle and mixture leaned for smooth operation above 5000 ft.	leaned	for sm	ooth op	eration	above	5000	1 #

Figure 5-4.

SURFACE RUNWAY POWER OFF

LANDING DISTANCE ON NO WIND 40° F

> APPROACH IAS MPH

560 1310 stance 10% for each

Note:

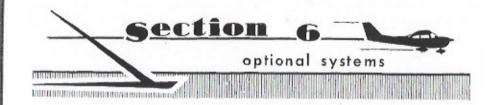
172 SKYHAWK ECRUISE & RANGE PERFORMANCE

Gross Weight-2300 Lbs. *
Standard Conditions *
Zero Wind * Lean Mixture *
39 Gal. of Fuel (No Reserve)

NOTE: Maximum cruise is normally limited to 75% power. For standard 172 performance, subtract 1 MPH from the higher cruise speeds shown.

ALT.	RPM	% BHP	MPH	GAL./ HOUR	ENDR. HOURS	RANGE MILES
2500	2700	93	138	10.5	3.7	510
	2800	84	131	9.5	4.1	540
	2500	75	125	8.5	4.6	575
	2400	67	119	7.6	5.1	610
	2300	59	113	6.8	5.7	645
	2200	52	108	6.2	6.3	675
	2100	46	100	5.7	6.9	690
5000	2700 2600 2550 2500 2400 2300 2200 2100	87 78 74 70 62 55 49 44	136 130 127 124 118 111 105 98	9.8 8.8 8.4 7.9 7.1 6.4 5.9	4.0 4.4 4.7 4.9 5.5 6.1 6.6 7.1	540 575 590 610 645 675 695 700
7500	2650 2600 2500 2400 2300 2200 2100	77 73 65 58 52 47 42	132 129 123 116 110 103 97	8.7 8.2 7.4 6.7 6.1 5.7 5.3	4.5 4.7 5.8 6.4 6.9 7.3	595 610 645 675 700 710 710
10,000	2700	71	131	8. 1	4.8	630
	2600	68	128	7. 7	5.1	650
	2500	61	121	7. 0	5.6	680
	2400	55	115	6. 4	6.1	705
	2300	49	108	5. 9	6.6	715
	2200	45	102	5. 5	7.1	720
	2100	41	96	5. 2	7.4	715
12,500	2600	63	126	7. 2	5. 4	685
	2500	57	120	6. 6	5. 9	710
	2400	52	113	6. 1	6. 4	725
	2300	47	107	5. 7	6. 8	730
	2200	43	101	5. 4	7. 2	725

5-5



This section contains a description, operating procedures, and performance data (when applicable) for some of the optional equipment which may be installed in your 172. Owner's Manual Supplements are provided to cover operation of other optional equipment systems when installed in your airplane. Contact your Cessna Dealer for a complete list of optional equipment available.

AUXILIARY FUEL TANK SYSTEM

An optional auxiliary fuel tank system (figure 6-1) is available to increase the airplane operating range. System components include an 18 gallon fuel tank (17.55 gallons usable) installed on the baggage compartment floor, an electric fuel transfer pump behind the tank, an electrically-operated fuel quantity indicator and fuel transfer pump switch on the instrument panel, a fuel tank filler provision on the right side of the fuselage, a fuel tank sump drain valve at the front of the tank on the bottom of the fuselage, and the necessary plumbing.

The auxiliary fuel system is connected to the right main fuel tank plumbing above the right cabin door.

AUXILIARY FUEL SYSTEM OPERATION.

To operate the auxiliary fuel system, proceed as follows:

PRE-FLIGHT CHECK:

- Turn on master switch and check fuel quantity indicator for reading.
- (2) Momentarily pull on transfer pump switch and listen for pump operation. Turn off master switch.
- (3) Check quantity of fuel in tank for agreement with fuel quantity indicator. Fill tank for anticipated requirements.
- (4) Drain small amount of fuel from fuel tank drain valve to check

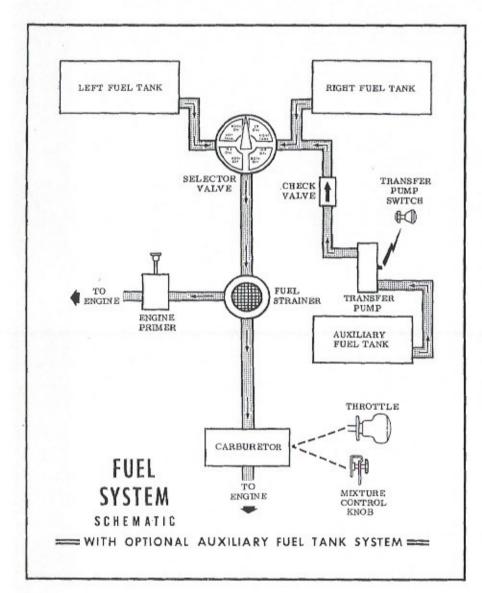


Figure 6-1.

for possible water and sediment.

DURING FLIGHT:

- (1) Take-off, climb and land with fuel selector valve handle set "BOTH ON" for maximum safety.
- (2) After leveling off at cruise altitude, switch to "RIGHT TANK" and operate from this tank until the fuel supply is exhausted.
- (3) Switch to "LEFT TANK" for operation, then pull on transfer pump switch and refill right main fuel tank from auxiliary tank. Push transfer pump switch to "OFF" when fuel transfer is completed.

NOTE

Transfer of total fuel from the auxiliary tank will take from 45 minutes to 1 hour.

(4) Return fuel selector valve handle to "BOTH ON" position after refilling right tank, or if desired switch again to right main tank.

IMPORTANT

Do not operate the transfer pump with the fuel selector turned to either "BOTH" or "RIGHT TANK" positions. Total or partial engine stoppage will result from air being pumped into fuel lines after fuel transfer has been completed. If the pump should accidentally be turned on with the fuel selector in either of these positions, and engine stoppage occurs, the engine will restart in from 3 to 5 seconds after turning off the transfer pump as the air in the fuel line will be evacuated rapidly.

COLD WEATHER EQUIPMENT

WINTERIZATION KIT.

For continuous operation in temperatures consistently below 20°F, the Cessna winterization kit, available from your Cessna Dealer, should be installed to improve engine operation.

GROUND SERVICE PLUG RECEPTACLE.

A ground service plug receptacle may be installed to permit the use of an external power source for cold weather starting and during lengthy maintenance of the electrical system.

Before connecting a generator type external power source it is important that the battery switch be turned on. This will enable the battery to absorb transient voltages which otherwise might damage the transistors in the audio amplifier. When using a battery type cart the battery switch should be turned off.

RADIO SELECTOR SWITCHES

RADIO SELECTOR SWITCH OPERATION.

Operation of the radio equipment is normal as covered in the respective radio manuals. When more than one radio is installed an audio switching system is necessary. The operation of this switching system is described below.

TRANSMITTER SELECTOR SWITCH.

The transmitter selector switch (figure 6-2) is labeled "TRANS," and has two positions. When two transmitters are installed, it is necessary to switch the microphone to the radio unit the pilot desires to use for transmission. This is accomplished by placing the transmitter selector switch in the position corresponding to the radio unit which is to be used.

SPEAKER-PHONE SWITCHES.

The speaker-phone switches (figure 6-2) determine whether the output of the receiver in use is fed to the headphones or through the audio amplifier to the speaker. Place the switch for the desired receiving system either in the up position for speaker operation or in the down position for headphones.

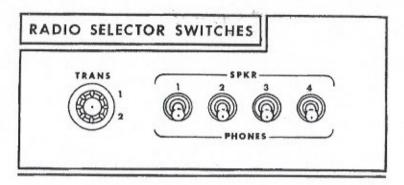


Figure 6-2.

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WARRANTY

- The Cessna Aircraft Company (Cessna) warrants each new aircraft, including factory installed equipment and accessories, and warrants all new aircraft equipment and accessories bearing the name "Cessna," to be free from defects in material and workmanship under normal use and service. Cessna's obligation under this warranty is limited to supplying a part or parts to replace any part or parts which, within six (6) months after delivery of such aircraft or such aircraft equipment or accessories to the original retail purchaser or first user, shall be returned transportation charges prepaid to Cessna at Wichita, Kansas, or such other place as Cessna may designate and which upon examination shall disclose to Cessna's satisfaction to have been thus defective.
- The provisions of this warranty shall not apply to any aircraft, equipment or accessories which have been subject to misuse, negligence or accident, or which shall have been repaired or altered outside of Cessna's factory in any way so as in the judgment of Cessna to affect adversely its performance, stability or reliability. This warranty is expressly in lieu of any other warranties, expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose, and of any other obligation or liability on the part of Cessna of any nature whatsoever and Cessna neither assumes nor authorizes any one to assume for it any other obligation or liability in connection with such aircraft, equipment and accessories.

Servicing Requirements



FUEL:

AVIATION GRADE -- 80/87 MINIMUM GRADE CAPACITY:
EACH TANK -----21.0 gal.

ENGINE OIL:

AVIATION GRADE -- SAE 40 ABOVE 40° F, SAE 20 BELOW 40° F.

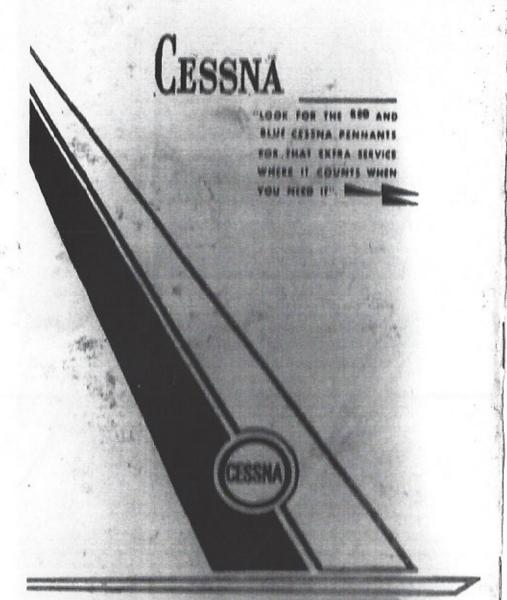
CAPACITY:

HYDRAULIC FLUID:

MIL-H-5606 HYDRAULIC FLUID (Shimmy Dampener and Brake Master Cylinders)

TIRE PRESSURES:

NOSE WHEEL---------26 psi on 5,00 × 5 26 psi on 6,00 × 6 MAIN WHEELS----------------23 psi



CESSNA 1964 MODEL SKYHAWK CESSNA

14-00763

SKYHAWK 1964 OWNER'S HANDRE

ANSAS



OWNER'S MANUAL