THERE ARE MORE CESSNAS FLYING THAN ANY OTHER MAKE



MODEL 150

OWNER'S MANUAL

WORLD'S LARGEST PRODUCER OF GENERAL AVIATION AIRCRAFT SINCE 1956

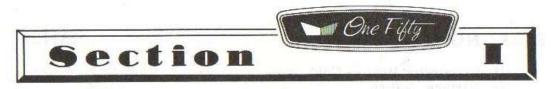
PERFORMANCE - SPECIFICATIONS

MODEL 150	PATROLLER VERSION
GROSS WEIGHT 1600 lbs	1600 lbs
Top Speed At Sea Level	125 mph 122 mph
Cruise, 75% Power at 7500 ft	760 mi 6. 2 hours 122 mph 885 mi 8. 9 hrs 99 mph 670 fpm 12, 650 ft
Ground Run	735 ft 1385 ft
Landing Roll	445 ft 1075 ft
"Standard". 970 lbs* BAGGAGE 120 lbs WING LOADING: Pounds/Sq Foot 10.0 POWER LOADING: Pounds/HP 16.0 FUEL CAPACITY: Total 26 gal. OIL CAPACITY: Total 6 qts PROPELLER: Fixed Pitch, (Diameter) 69 inches	975 lbs* 120 lbs 10. 0 16. 0 38 gal. 6 qts 69 inches
Continental Engine, O-200A 100 rated HP at 2750 RPM	O-200A

*EMPTY WEIGHT (Approximate) "Trainer," 990 lbs (patroller 995 lbs)
"Inter-City Commuter," 1010 lbs (patroller 1015 lbs)

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Cessna Aircraft Company Wichita, Kansas USA



OPERATING CHECK LIST

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 should know 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 airspeeds 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 Valve Handle -- "ON."

STARTING THE ENGINE.

- (1) Carburetor Heat -- Cold.
- (2) Mixture -- Rich.

- (3) Primer -- As required.
 (4) Ignition Switch -- "BOTH."
 (5) Throttle -- Open 1/4".
 (6) Propeller Area -- Clear.
- (7) Starter Handle -- Pull.

BEFORE TAKE-OFF.

- (1) Throttle Setting -- 1700 RPM.
- (2) Engine Instruments -- Within green arc and generator light out.
- (3) Magnetos -- Check (75 RPM maximum differential between magnetos).
- (4) Carburetor Heat -- Check operation.
- (5) Flight Controls -- Check.
- (6) Trim Tab -- "TAKE-OFF" setting.
- (7) Cabin Doors -- Latched.
- (8) Flight Instruments and Radios -- Set.

TAKE-OFF.

NORMAL TAKE-OFF.

- (1) Wing Flaps -- Up.
- (2) Carburetor Heat -- Cold.
- (3) Throttle -- Full 'OPEN."
- (4) Elevator Control -- Lift nose wheel at 50 MPH.
- (5) Climb Speed -- 72 MPH until all obstacles are cleared, then set up climb speed as shown in "NORMAL CLIMB" paragraph.

MAXIMUM PERFORMANCE TAKE-OFF.

- (1) Wing Flaps -- Up.
- (2) Carburetor Heat -- Cold.
- (3) Brakes -- Hold.
- (4) Throttle -- Full 'OPEN."
- (5) Brakes -- Release.(6) Elevator Control -- Slightly tail low.
- (7) Climb Speed -- 52 MPH (with obstacles ahead).

CLIMB.

NORMAL CLIMB.

- (1) Air Speed -- 75 to 80 MPH.
- (2) Power -- Full throttle.
- (3) Mixture -- Rich (unless engine is rough).

MAXIMUM PERFORMANCE CLIMB.

- (1) Air Speed -- 72 MPH.
- (2) Power -- Full throttle.
- (3) Mixture -- Rich (unless engine is rough).

CRUISING.

- (1) Power -- 2000 to 2750 RPM.
- (2) Elevator Trim -- Adjust.
- (3) Mixture -- Lean to maximum RPM.

BEFORE LANDING.

- (1) Mixture -- Rich.
- (2) Carburetor Heat -- Apply full heat before closing throttle.
- (3) Airspeed -- 65 to 75 MPH.
- (4) Wing Flaps -- As desired below 100 MPH
- (5) Airspeed -- 60 to 70 MPH (flaps extended).

NORMAL LANDING.

- (1) Touch Down -- Main wheels first.
- (2) Landing Roll -- Lower nose wheel gently.
- (3) Braking -- Minimum required.

AFTER LANDING.

- (1) Wing Flaps -- Up.
- (2) Carburetor Heat -- Cold.

SECURE AIRCRAFT.

- (1) Mixture -- Idle cut-off.
- (2) All Switches -- Off. (3) Parking Brake -- Set.
- (4) Control Lock -- Installed.



DESCRIPTION AND OPERATING DETAILS

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 that require further explanation.

FUEL SYSTEM.

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

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

FUEL STRAINER DRAIN KNOB.

Refer to fuel strainer servicing procedure, Section IV.

FUEL QUANTITY DATA (U.S. GALLONS)

TANKS	USABLE FUEL ALL FLIGHT CONDITIONS	UNUSABLE FUEL	TOT AL FUEL VOLUME
TWO WING (13 GAL, EACH)	22.5	3, 5	26.0
TWO PATROLLER WING (19 GAL. EACH)	35.0	3.0	38.0

Figure 2-1.

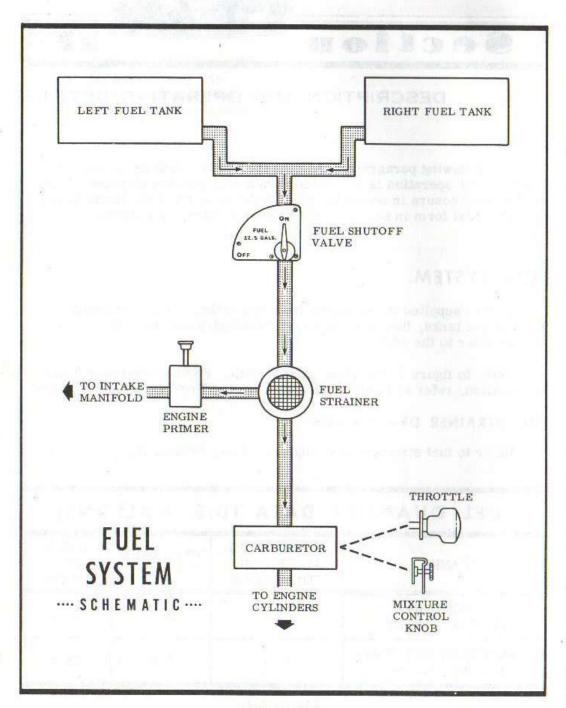


Figure 2-2.

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 right, forward side of the firewall just inside the cowl access door. The master switch controls all electrical circuits except the clock and the ignition system.

FUSES AND CIRCUIT BREAKERS.

Fuses on the instrument panel protect most of the electrical circuits in your airplane. (The clock fuse is located adjacent to the battery.) The circuits controlled by each fuse are indicated above each fuse retainer. Fuse capacity is indicated on each fuse retainer cap. Fuses are removed by pressing the fuse retainers inward and rotating them counterclockwise until they disengage. The faulty fuse may then be lifted out and replaced. Spare fuses are held in a clip on the inside of the map compartment door.

The fuel quantity transmitters and indicators, stall warning transmitter and warning horn system, and optional turn-and-bank indicator circuits are protected by an automatically-reset circuit breaker which provides intermittent emergency operation of these devices in case of a faulty circuit. The optional rotating beacon is controlled and protected by a circuit breaker switch on the instrument panel.

GENERATOR WARNING LIGHT.

A red generator warning light labeled "GEN," gives an indication of generator output. It will remain off at all times when the generator is functioning properly. The light will not show drainage on the battery. It will illuminate when the battery or external power is turned on prior to starting the engine, and when there is insufficient engine RPM to produce generator current. Also, it will illuminate if generator becomes defective.

LANDING LIGHTS (OPT).

A three-position, push-pull type switch controls the optional landing lights mounted in the leading edge of the left wing. To turn one lamp on for taxiing, pull the switch out to the first stop. To turn both lamps on for landing, pull the switch out to the second stop.

ROTATING BEACON (OPT).

The rotating beacon should not be used when flying through clouds or

overcast; the moving beams reflected from water droplets or particles in the atmosphere, particularly at night, can produce vertigo and loss of orientation.

CABIN HEATING AND VENTILATING SYSTEM.

For heated ventilation air pull the cabin heat knob out the desired amount. Additional ventilating air is provided by pulling out the ventilators located in the upper corners of the windshield.

PARKING BRAKE SYSTEM.

To set parking brake, pull out on the parking brake knob, apply and release toe pressure to the pedals, and then release the parking brake knob. To release the parking brake, apply and release toe pressure on the pedals while checking to see that the parking brake knob is full in.

STARTING ENGINE.

Ordinarily the engine starts easily with one or two strokes of primer in warm temperatures to six strokes in cold weather, with the throttle open approximately 1/4 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 cleared from the combustion chambers by the following procedure: Set the mixture control in full lean position, throttle full open, and 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.

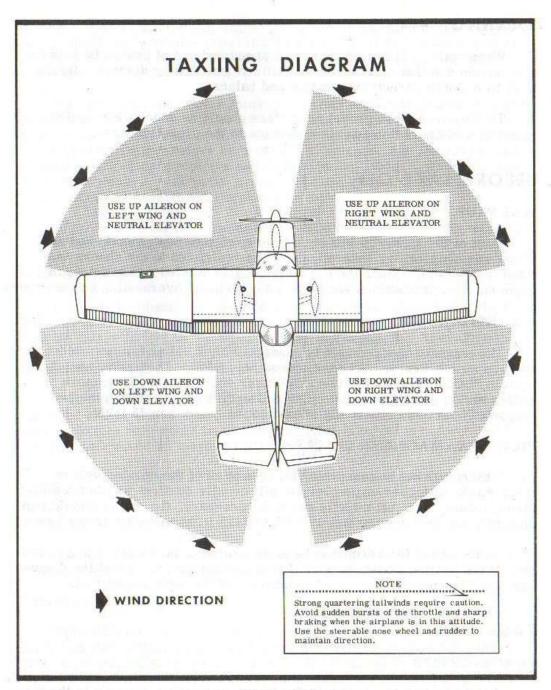


Figure 2-3.

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.

BEFORE TAKE-OFF.

WARM-UP.

Most of the warm-up will have been conducted during taxi, and additional warm-up before take-off should be restricted to the checks outlined in Section I. Since the engine is closely cowled for efficient inflight cooling, precautions should be taken to avoid overheating on the ground.

MAGNETO CHECK.

The magneto check should be made at 1700 RPM as follows: Move the ignition switch first to "R" position and note RPM. Then move switch back to "BOTH" position to clear the other set of plugs. Then move switch to "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 runup is necessary, the engine should run smoothly and turn approximately 2375 to 2475 RPM with 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 has been "bumped-up" and is set in advance of the setting specified.

TAKE-OFF.

POWER CHECKS.

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 runup before another take-off is attempted.

Full throttle runups 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 blade, they should be immediately corrected as described in Section IV.

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

FLAP SETTINGS.

Normal and obstacle clearance take-offs are performed with 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° and 40° are not recommended at any time for take-off.

PERFORMANCE CHARTS.

Consult the take-off chart in Section V 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.

CLIMB DATA.

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

CLIMB SPEEDS.

Normal climbs are conducted at 75 to 80 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 72 MPH at sea level to 66 MPH at 10,000 feet. If an obstruction 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 52 MPH at sea level to 60 MPH at 10,000 feet.

NOTE

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

GO-AROUND CLIMB.

In a balked landing (go-around) climb, the wing flaps should be retracted immediately after full power is applied.

CRUISE.

Normal cruising is done at 65% to 75% of METO power. The 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 altitude because of lower airplane drag due to lower air density. This is illustrated in the following table for 70% power.

For detailed cruise performance, refer to the Cruise Performance Chart in Section V.

OPTIMU	JM CRUISE PERFO	RMANCE
ALTITUDE	RPM	TRUE AIRSPEED
Sea Level	* 2430	111
5000 feet	* 2550	116
9000 feet	* Full Throttle	120

STALLS.

The stall characteristics are conventional for the flaps up and flaps down condition. Slight elevator buffeting may occur just before the stall with flaps down.

The stalling speeds are shown in Section V for forward c.g., full gross weight conditions. They are presented as calibrated airspeeds because indicated airspeeds are unreliable near the stall. Other loadings result in slower stalling speeds. The stall warning horn produces a steady signal 5 to 10 MPH before the actual stall is reached and remains on until the airplane flight attitude is changed.

LANDING.

Normal landings are made power off with any flap setting. Approach glides are normally made at 65 to 75 MPH with flaps up, or 60 to 70 MPH with flaps down, depending upon the turbulence of the air.

SHORT FIELD LANDINGS.

For a short field landing, make a power off approach at 58 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 mornings, 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 (-20°F) weather the use of an external preheater is recommended whenever possible to reduce wear and abuse to the engine and the electrical system. 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 heavy 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 running smoothly.

(8) Keep carburetor heat on until engine has warmed up.

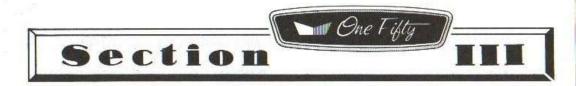
NOTE

If the engine does not start the first time, it is probable that the spark plugs have been frosted over. Preheat must be used before another start is attempted.

During cold weather operations, no indication will be apparent on the oil temperature gage prior to take-off if outside air temperatures are very cold. After a suitable warm-up period (2 to 5 minutes at 1000 RPM), accelerate the engine several times to higher engine RPM. If the engine accelerates smoothly and the oil pressure remains normal and steady, the airplane is ready for take-off.

When operating in sub-zero temperature, avoid using partial carburetor heat. Partial heat may increase the carburetor air temperature to the 32° to 80°F range, where icing is critical under certain atmospheric conditions.

An optional winterization kit is available for use when operating in temperatures below 20° F.



OPERATING LIMITATIONS

OPERATIONS AUTHORIZED.

Your Cessna 150, with standard equipment as certified under FAA Type Certificate No. 3A19, is approved for day and night operation under VFR.

Additional optional equipment is available to increase its utility and to make it authorized under IFR day and night.

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 the Cessna 150. In connection with the foregoing, the following gross weights and flight load factors apply, with recommended entry speeds for maneuvers as shown.

Maximum Design Weight			•	*	. 1600 lbs.
Flight Maneuvering Load Facto	r, *Flaps	Up	•		+4.4 -1.76
Flight Maneuvering Load Facto	r, *Flaps	Down			+3.5

^{*}The design load factors are 150% of the above, and in all cases, the structure meets or exceeds design loads.

No acrobatic maneuvers are approved except those listed below:

MANEUVER						F	E	CC	M	M	ENDED ENTRY SPEED
Chandelles											. 109 MPH (95 knots)
Lazy Eights											. 109 MPH (95 knots)
Steep Turns		*			•						. 109 MPH (95 knots)
Spins			1			4					Use Slow Deceleration
Stalls											Use Slow Deceleration

During prolonged spins, the aircraft engine may stop; however, spin recovery is not adversely affected by engine stoppage.

Acrobatics that may impose high inverted loads should not be attempted. The important thing to bear in mind in flight maneuvers is that the Cessna 150 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.

The following are the certificated calibrated airspeed limits for the Cessna 150:

Maximum (Glid	e	01	. (di	ve	,	sn	100	oth	a	ir)					1	62	M	P	H (rec	line	e)
Caution Range																						
Normal Range													56	3-	12	0	M	PH	I	(green	arc	:)
Flap Operating	F	ar	ıg	e									4							(white		
Maneuvering Sp	oe	ed	*																	. 109	MP	H

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

ENGINE OPERATION LIMITATIONS.

Power and Speed 100 BHP at 2750 RPM

ENGINE INSTRUMENT MARKINGS.

The same that the same of the														
OIL TEMPERATURE GAGE. Normal Operating Range			٠											Green Arc
Maximum Allowable			٠	•	•			•	•		•	٠	٠	Red Line
OIL PRESSURE GAGE.														
Minimum Idling											1	10	PSI	(red line)
Normal Operating Range									3	0-	60	P	SI (green arc)
Maximum			•	•	•	::*U		٠	•	*	10	0	PSI	(red line)
FUEL QUANTITY INDICATORS.														
Empty (1.75 gallons unusa	ıbl	e	ead	ch	ta	nk)					•	. E	(red line)
TACHOMETER.														
Normal Operating Range:														
At sea level						2	200	00.	-2	550	0 (ini	ner	green arc)
						H 47.	UU	-	40	-		LUI	440	green are
At 5000 feet At 10,000 feet														green arc)

WEIGHT AND BALANCE.

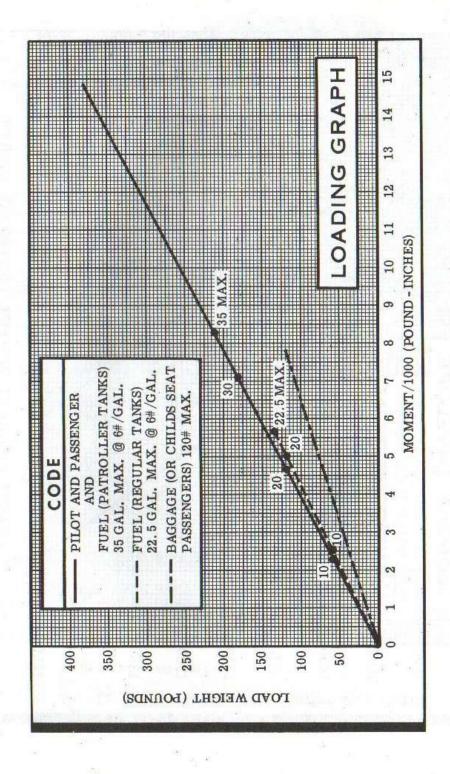
The following information will enable you to operate your Cessna within the prescribed weight and center of gravity limitations. To figure the weight and balance for your particular airplane, use the Sample Problem, Loading Graph, and Center of Gravity Moment Envelope as follows:

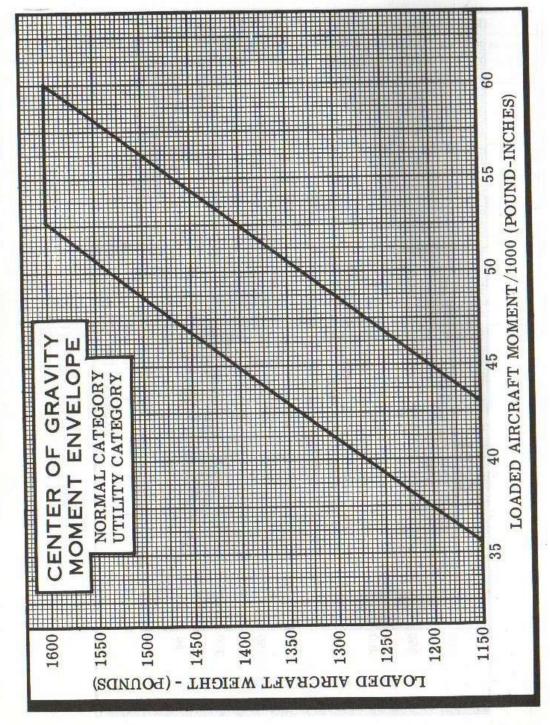
Take the licensed Empty Weight and Moment/1000 from the Weight and Balance Data sheet, plus any changes noted on forms FAA-337, carried in your airplane, and write them down in the proper columns. Using the Loading Graph, determine the moment/1000 of each item to be carried. Total the weights and moments/1000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

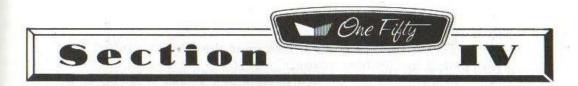
Park 1	Sample	Airplane	Your A	irplane
SAMPLE LOADING PROBLEM	Weight (lbs)	Moment (lb-ins. /1000)	Weight	Moment
1. Licensed Empty Weight (Sample Airplane) ·····	1038	34.2		
2. Oil - 6Qts.*	11	-0.1	11	-0.1
3, Pilot & Passenger	340	13.3	O I	
4. Fuel - Std. Tanks (22.5 Gal at 6#/Gal)	135	5.7		
5. Baggage (or children on child's seat)	76	4.9	MITELE	
6. Total Aircraft Weight (Loaded)	1600	58.0	Min.	

Locate this point (1600 at 58.0) on the center of gravity envelope and since this
point falls within envelope the loading is acceptable.

^{*}Note; Normally full oil may be assumed for all flights.







CARE OF THE AIRPLANE

If your airplane is to retain that new-plane performance, stamina, 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 a tow-bar attached to the nose wheel.

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 is the best precaution against damage to your parked airplane by gusty or strong winds.

To tie down your airplane securely, proceed as follows:

- (1) Set parking brake and install 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 and tail 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.

(6) Tie a rope to an exposed portion of the engine mount and secure the opposite end to a ramp tie-down.

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 windshield, 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 180 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.

Federal 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.

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 Federal 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 Federal 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 Servicing Intervals 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 13 gallons for standard fuel tanks, 19 gallons for optional patroller tanks.

FUEL STRAINER:

On the first flight of the day and after each refueling, pull out fuel strainer drain knob (located just inside cowl access door) 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 (nondetergent) 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 4 quarts. To minimize loss of oil through breather, fill to 5 quart level for normal flights of less than 3 hours. For extended flight, fill to 6 quarts. If optional oil filter is installed, one additional quart is required when the filter element is changed.

SERVICING INTERVALS CHECK LIST

EACH 50 HOURS

BATTERY -- Check and service. Check oftener (at least every 30 days) if operating in hot weather.

ENGINE OIL AND OIL FILTER -- Change engine oil and replace filter element. If optional oil filter is not installed, change oil and clean screen every 25 hours. Change engine oil at least every four months even though less than 50 hours have been accumulated. Reduce periods for prolonged operation in dusty areas, cold climates, or when short flights and long idle periods result in sludging conditions.

CARBURETOR 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.

SHIMMY DAMPENER -- Check and fill

FUEL STRAINER -- Disassemble and clean.

FUEL TANK SUMP DRAINS -- Drain water and sediment.

FUEL LINE DRAIN PLUG -- Drain water and sediment.

VACUUM SYSTEM OIL SEPARATOR (OPT) -- Clean.

SUCTION RELIEF VALVE INLET SCREEN (OPT) -- Clean.

EACH 500 HOURS

VACUUM SYSTEM AIR FILTER (OPT) -- Replace filter element. Replace sooner if suction gage reading drops below 3.75 in. Hg.

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

AS REQUIRED

NOSE GEAR SHOCK STRUT -- Keep inflated and filled.

GYRO INSTRUMENT AIR FILTERS (OPT) -- Replace at instrument overhaul.

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.





OPERATIONAL DATA

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. which may be different on each flight you make. All of these factors must be considered when estimating reserve fuel.

To realize the maximum usefulness from your Cessna, you should take advantage of its high cruising speeds. However, if range is of primary importance, it may pay you to fly at a low cruising RPM, thereby increasing your range and allowing you to make the trip non-stop with ample fuel reserve. The range table on page 5-4 should be used to solve flight planning problems of this nature.

In the table (figure 5-4), range and endurance are given for lean mixture from 2500 feet to 12,500 feet. All figures are based on zero wind, 22.5 and 35.0 gallons of fuel for cruise, McCauley 1A100/MCM6950 propeller, 1600 pounds gross weight, and standard atmospheric conditions. Mixture is leaned to maximum RPM. Allowances for fuel reserve, headwinds, take-offs and climb, and variations in mixture leaning technique should be made as no allowances are shown on the chart. Other indeterminate variables such as carburetor metering characteristics, engine and propeller conditions, and turbulence of the atmosphere may account for variations of 10% or more in maximum range.

-	T										
IAS	40	50	60	70	80	90	100	110	120	130	140
CAS	51	57	65	73	82	91	100	109	118	127	136
221,000 81	IN SECTION	u d		(Flap	s Do	wn)		ea in	nglass	eq:	
IAS	40	50	60	70	80	90	100	100			1115
CAS	49	55	63	72	81	89	98	89	olgai	8741	

Figure 5-1.

Gross Weight	AN	GLE C	F BA	NK
— 1600 lbs. —	0°	20°	40°	60
Flaps UP	55	57	63	78
Flaps 20°	49	51	56	70
Flaps 40°	48	49	54	67

Figure 5-2.

H.	WIND	GROUND		TO CLEAR	GROUND	TOTAL TO CLEAR		GROUND
4	100	735 500 305	1	1385 1035 730	910 630 395	1250 1250 890		1115 780 505
Dec	Decrease in temper	the distances ature above st	ses shown e standar	shown by 10% for andard for the par	Decrease the distances shown by 10% for each 4 knots of Intemperature above standard for the particular altitude.	he	1200	Increase the d
4	×	MUM		RATI	E-0	10-	LIM	B
AT	SEA	SEA LEVEL & 59°	59° F.	AT 50	AT 5000 FT. & 41°	1º F.	AT 10	AT 10000 FT.
AS.	AS. MPH F	RATE OF CLIMB FT./MIN.	FUEL USED, GAL.	LAS. MPH	RATE OF CLIMB FT./MIN.	FUEL USED FROM S.L., GAL.	IAS, MPH	CLIMB FT./MR
72	8	670	9.	69	440	1.6	99	220
Fla	ps ret e-off a	Flaps retracted, ful take-off allowances.	full throttle, es.		mixture leaned to smooth operation above 5000 ft.	ooth opera	tion above	5000 ft.
	Z	NG	0	STA	NCE		1	FLAPS
		AT SEA	SEA LEVEL	& 59° F.	AT 2500 FT.	FT. & 50°	H.	AT 5000 F
PPROAC SPEED, IAS, MPF	PPROACH SPEED, IAS, MPH	GROUND		TO CLEAR 50 FT. OBS	GROUND	TOTAL TO CLEAR 50 FT. OBS		GROUND
58		445		1075	470	1135	2	495
Dec	Decrease temperatu	Decrease the distances shown by 10% temperature increase above standard.	es shown by e above stand	by 10% for tandard.	10% for each 4 knots of headwind.	s of headw		I Increase the d
					Ď.	Timing E	c	

NOTE:

1600

LANDING

TOTAL TO CLEAR 50 FT. OBS

GROUND

TOTAL TO CLEAR 50 FT, OBS

2440 1875 1375

970 970 640

1985 1510 1090

increase

ease the distances 10% for each 35° F.

DATA

0000 FT. & 23° F.

GROSS WEIGHT LBS.

MAXIMUM

RATE OF FT. /MIN. CLIMB

AT 7500 FT. & 32° F.

AT 5000 FT. & 41º F.

AT 2500 FT. & 50° F.

AT SEA LEVEL & 59° F.

HEAD WIND MPH

IAS 50 FT. MPH

GROSS WT. LBS.

64

1600

NOTE:

DISTANCE

TAKE-OFF

FLAPS RETRACTED HARD SURFACE RUNWAY TOTAL TO CLEAR 50 FT. OBS

GROUND

TOTAL TO CLEAR 50 FT.OBS

APPROACH SPEED, IAS, MPH

GROSS WEIGHT LBS.

1600

NOTE

5 - 3

AT 7500

& 41º F.

AT 5000 FT.

FLAPS LOWERED TO 40° - POWER OFF HARD SURFACE RUNWAY - ZERO WIND

Fuel used includes war m-up and

3,0

FUEL USED FROM S.L., GAL.

1255

520

1195

ease the distance by 10% for each 60°.

CRUISE PERFORMANCE NOTE: Maximum cruise is normally limited to 75%

WITH LEAN MIXTURE

5 7	117		Early S.	F = 7	* END.	HOURS	* RANGE	MILES
ALTITUDE	RPM	%BHP	TAS MPH	GAL/HR.	STANDARD	PATROLLER	STANDARD	
		W. D	1110 1111	0.110,1111	22.5 GAL.	35 GAL.	22.5 GAL.	35 GAL
2500	2750 2700 2600	94 89 79	126 124 119	7.2 6.8 6.0	3.1 3.3 3.8	4.9 5.2 5.9	395 410 450	610 640 700
	2500 2400 2300 2200 2100	71 63 56 50 45	114 108 102 95 87	5, 3 4, 7 4, 2 3, 8 3, 5	4.3 4.8 5.3 5.9 6.4	6.6 7.4 8.3 9.1 10.0	485 515 540 555	755 805 845 865
				83138			560	870
5000	2750 2700 2600 2500 2400 2300 2200 2100	87 82 74 66 58 53 47 44	126 124 119 113 107 100 92 86	6.6 6.2 5.5 4.9 4.4 4.0 3.7 3.4	3, 4 3, 6 4, 1 4, 6 5, 1 5, 6 6, 1 6, 6	5.3 5.6 6.3 7.1 7.9 8.7 9.5 10.2	430 450 485 515 545 555 560 565	670 700 755 800 845 865 875
7500	2700 2600 2500 2400 2300 2200 2100	76 68 61 55 50 46 44	123 117 111 104 97 90 85	5.7 5.1 4.6 4.2 3.8 3.6 3.4	3.9 4.4 4.9 5.4 5.9 6.3 6.6	6.1 6.8 7.6 8.3 9.1 9.7	485 515 540 555 565 560 560	755 805 845 865 880 875 870
10,000	2700 2600 2500 2400 2300 2200	71 64 58 52 48 45	122 116 109 101 94 89	5.3 4.8 4.4 4.0 3.7 3.6	4, 2 4, 7 5, 1 5, 6 6, 0 6, 3	6. 6 7. 3 8. 0 8. 7 9. 4 9. 8	515 540 560 565 565 565 562	805 840 870 880 885 875
12,500	2650 2600 2500 2400 2300	63 60 55 51 48	117 113 105 99 89	4.7 4.5 4.2 3.9 3.7	4.8 5.0 5.4 5.8 6.1	7.4 7.7 8.4 9.0 9.5	555 560 570 570 545	860 875 885 890 845

^{*} No allowances for take-off or reserve.

Figure 5-4.

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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.



"TAKE YOUR CESSNA HOME FOR SERVICE AT THE SIGN OF THE CESSNA SHIELD".

CESSNA AIRCRAFT COMPANY
WICHITA, KANSAS

ADDITIONAL INFORMATION FOR BRITISH CERTIFICATION

CAA Supplement 1 Issue 1 to the Cessna 150 1969 Owner's Manual D251-13.

Cessna

Constructor's

Registration

150

Serial No. 150-60794

Marks G-ASY

The aeroplane is to be operated in accordance with the folllowing information in addition to that contained in the Owner's Manual and any approved appendix, supplement or change sheet. The information in this supplement supersedes any similar information in the manual.

DESCRIPTION AND OPERATING DETAILS

- 1. Starting Engine. A starter energised warning light comes on to indicate that the starter motor relay is energised closed when the starter is operated. If the light stays on after the starter button has been released, the starter motor relay is being held closed by a malfunction and the starter motor will continue to rotate until its electrical supply is terminated, in which case switch off internal and external electrical power, complete the engine shut-down drills and investigate the cause.
 - Carburetor Icing. If conditions require the use of carburetor heat, use full heat continuously or intermittently as required, and lean the mixture slightly for smoothest engine operation.

CAA Supplement 1 Issue 1 CAA Approved 25 April 1985

ADDITIONAL INFORMATION FOR BRITISH CERTIFICATION

EMERGENCY PROCEDURES

- 1. Engine Starting During Flight. If the starter energised warning light stays on after the starter has been operated, the starter motor is continuing to rotate and is therefore still engaged. Land as soon as practicable. After landing, isolate the batteries as quickly as possible then carry out the engine shut-down drills.
- 2. Complete Electrical Failure. This failure causes the loss of all radio, the turn co-ordinator, the fuel quantity indicators and the wing flaps. Turn the master switch to OFF and land as soon as possible.

OPERATING LIMITATIONS

 This type of aeroplane is eligible for certification in the Transport Category (Passenger).

However, this particular aeroplane may be restricted to another Category and to some particular use. This will be stated in the Certificate of Airworthiness.

- When operated in the Transport Category (Passenger), the aeroplane is classified in Performance Group E.
- 3. The minimum crew is one pilot.
- 4. Aerobatic manoeuvres are limited to those listed in the Owner's Manual. When aerobatic manoeuvres are to be performed the limitations associated with the Utility Category in the Owner's Manual shall be complied with.

CAA Supplement 1 Issue 1

353137

Page 2 of 5

CAA Approved 25 April 1985

ADDITIONAL INFORMATION FOR BRITISH CERTIFICATION

OPERATING LIMITATIONS (Continued)

 The total number of persons carried including crew shall not exceed two.

If a child's seat is fitted and equipped with safety belt(s) the occupant(s) of this seat up to and including a total weight of 120 lb may be added to the total.

The total number of persons carried shall not exceed the number of seats approved for use during take-off and landing.

Children under the age of three years carried in the arms of passengers need not be included in the total.

- For flight by night or IFR refer to the Air Navigation legislation for equipment required.
- Flight into known or forecast icing conditions is prohibited.

in the land

CAA Supplement 1 Issue 1 CAA Approved 25 April 1985

ADDITIONAL INFORMATION FOR BRITISH CERTIFICATION

OPERATIONAL DATA

- The true air speed for compliance with the regulations governing flight over water is 105 mph.
- 2. To achieve the performance recorded on this type of aeroplane during flight tests, the following adjustments must be made to the performance scheduled in the manual.
 - (i) Increase the take-off distance by 3%.
 - (ii) Decrease the scheduled rate of climb by 30 ft/min.
 - (iii) Use a landing approach speed of 60 mph IAS.
 - (iv) Increase the landing distance by 10%.
 - (v) For operations from firm dry grass increase the take-off distance by 10% and the landing distance by 18%.
- The Take off technique appropriate to Public Transport Operation is that designated 'Normal Take off', aiming to achieve 64 mph by 50 ft.
- 4. With a failed engine the aircraft will glide at 1.46 nm per 1000 ft.

Malani.

ADDITIONAL INFORMATION FOR BRITISH CERTIFICATION

CONVERSION TABLE - US GALLONS TO LITRES OR LITRES TO US GALLONS

US Gallons	US Gallons or Litres	Litres	
0.2641	1	3.7854	
0.5282	2	7.5708	
0.7923	3	11.3562	
1.0564	4	15.1416	
1.3205			
1.5846	6		
1.8487	8487 7		
2.1128	2.1128		
2.3769	2.3769 9		
2.6410 10		37.8540	

EXAMPLES

4834

- 1. To convert 200 US gallons to litres:2 US gallons (centre column) = 7.5708 litres
 (right hand column)
 By moving the decimal point two places to the
 right
 200 US gallons = 757.08 litres
- 2. To convert 750 litres to US gallons:7 litres (centre column) = 1.8487 US gallons
 (left-hand column)
 By moving the decimal point two places to the
 right
 700 litres = 184.87 US gallons
 Plus, by moving the decimal point
 50 litres = 13.205 US gallons
 Total 750 litres = (184.87 + 13.205)
 198.075 US gallons

To be inserted at the back of the manual and the CAA revision record sheet to be amended accordingly.

CAA Supplement 1 CAA Approved
Issue 1 Page 5 of 5 25 April 1985

WEIGHT AND CENTRE OF GRAVITY SCHEDULE

AIRCRAFT DESIGNATION : Cessna 150 E NATIONALITY & REGISTRATION: G - ASYP MAXIMUM AUTHORISED A.U.W. : 1600 LBS.

PART (A) BASIC WEIGHT

The basic veight of the aircraft, as calculated from veighing report NO/DATE: TS-SYP-10 8th August 1991
The centre of gravity of the aircraft, relative to the datum, in the same condition, (at this weight and with the landing gear extended)

is:33.12

is:1111 LBS.

The total moment of the aircraft about the datum in this condition, (at this weight and with the landing gear extended) is:36796 This datum is the one to which the limits in the Certificate of Airvorthiness or Flight Manual relate and is defined as of the firewall.

The front face

Lever arms forward of the datum are -ve and those aft of the datum are +ve. The basic veight includes the veight of the total quantity of unusable fuel and oil and the veight of the following, which comprises the list of basic equipment: Two Seats, Fire Extinguisher, First Aid Kit, Narco 12D, ID824, AT150, FSG50, SPA400, Bendix T12C.

PART (B) VARIABLE LOAD

The weight and lever arms, (relative to the C.G. datus defined in PART (λ) of the variable load, which includes the weight of crew and those items of equipment, including usable fluids other than fuel, which do not form part of the basic equipment, are shown below. The variable load depends upon the role in which the aircraft is intended to be used.

ACTUAL WEIGHT LEVER ARM INCHES

MOMENT CHANGE POUND-INCHES

Pilot

TOTAL:

Actual

39.12

PART (D) LOADING INFORMATION (DISPOSABLE LOAD)

Information is given below to enable the disposable load, (fuel and Payload), to be distributed so that the miximum weight and centre of gravity limits given in the Flight Manual/Certificate of Airvorthiness are not exceeded.

ITEM

WEIGHT

LEVER ARM INCHES

MOMENT CHANGE POUND-INCHES

Max. total usable fuel: Imp. Gal: 135

at: 1b/gal : 7.2

12.2

Max. total usable oil : Imp. Cal: Included in basic weight.

at: 15/gol :

: Actual

Front passenger Rear passengers Luggage (behind rear seat)

: 76

64.5

NOTE: It is a requirement of the Air Navigation Order that the Commander is satisfied before take-off that the load is of such weight and is so distributed and secured that it may safely be carried on the intended flight.

This schedule was prepared on ... 5th. August. 1991... and supersedes all previous issues.

..AUTHORITY LAD. 18034. ABCX.......... DATE. 8th. August. 91