

2021 LSA TRANSITION COURSE PRE-ARRIVAL

LESSON THREE :: CRUISE, SLOW FLIGHT, POWER DESCENTS, GLIDES

When using 100LL use a minimum of 5000 RPM to assist lead dispersion.

When using 93 OCT premium auto gas.

In states that use winter grade auto gas, you need to mix half 100LL from March first to May first to prevent vapor lock.

The prop is turning at 2200 RPM when the crank shaft is turning at 5320 RPM due to the 2.42:1 gear box.

High cruise is 5350 and will result in about 5.5 GPH.

Normal cruise is 65 % power which is 5000 RPM.

This will result in about 5 GPH of fuel consumption.

CRUISE

NORMAL CRUISE 5000 RPM NO FLAP...NOTE OAT_____ AC WEIGHT_____ SPEED_____

LOW CRUISE 4800 RPM NO FLAP...NOTE OAT_____ AC WEIGHT_____ SPEED_____

HIGH CRUISE 5300 RPM NO FLAP...NOTE OAT_____ AC WEIGHT_____ SPEED_____

URNS

You will make numerous turns to learn where to look outside the aircraft so you can maintain your altitude by sole reference by looking out the windows.

You will learn when the wing banks, the wing loses lift. You will learn that if you add a little power while turning,

it is easier to maintain your altitude.

SLOW FLIGHT

You will learn to how to slow the plane down to Vfe, Flap extend speed.

This is used to prepare the plane for operation in the Traffic Pattern.

You will fly with various power setting and observe how it effects speed.

POWER ON DESCENTS

You will learn power on descents.

You will set the throttle at 4000 RPM, low the nose and observe what your glide speed is.

You will set the throttle at 3000 rpm, low the nose and observe your glide speed.

GLIDES

You will learn power off glides. You will reduce the power to idle by bring back the throttle.

You will observe the speed with the nose down slightly.

You MUST KEEP THE NOSE DOWN TO MAINTAIN ENERGY AND KEEP US SAFE.

With the engine at idle speed, the wing can only maintain lift by keeping the nose down.

To have sufficient energy to land with the engine at idle, the nose must be down to produce lift and energy that lead to a successful landing.

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