

LS4 CHECKOUT

NAME _____

DATE _____

Please answer the following questions:

Weight and Balance

- Annual due date
- Empty weight
- Empty weight center of gravity
- Gross weight
- Minimum cockpit weight
- Max cockpit weight
- Maximum water ballast
- Calculate the center of gravity with you, a 15 pound parachute, 2 liter water bottle, no water ballast installed.
- Determine the maximum amount of water you can carry from the previous calculation

Performance

- Maximum aero tow speed
- Maximum ground launch speed
- Maximum speed with gear extended
- Maximum speed to deploy spoilers
- Maneuvering speed
- Minimum sink speed
 - Wing level
 - 30 degree bank
 - 45 degree bank
 - 60 degree bank
- Best L/D speed
 - Wings level
 - 30 degree bank
- Traffic pattern Speeds
 - Downwind
 - Base
 - Final
 - Threshold
- Stall speed wings level
- Stall speed 45 degree bank

- Spin recovery procedures
- Spiral recovery procedures
- Vne at 10,000 MSL and 20,000 MSL

Equipment

- Describe the Oxygen system
- Explain the landing gear to spoiler system mechanical interlock
- How do you retract and extend the landing gear
- How often should the gas-strut for the landing gear over center lock be replaced
- What is the correct method to open the canopy from outside the cockpit
- How many control connections are installed
- How do you install the following items
 - Tail dolly
 - Wing wheel
 - Tow-bar
- What is the correct procedure for opening and closing the canopy
- What type of tow hooks are installed
- What is the correct weak-link for the LS4
- What is the correct tire pressure
- What is the tire size
- What type of tire is installed
- Where are the static ports and pitot tube
- How is the horizontal tail assembly installed and adjusted

Be prepared to pass a Blind-cockpit check:

1. Location of all instruments
2. Controls
3. Takeoff procedures
4. Landing procedures
5. Spin recovery
6. Slack-line recovery
7. Landing gear retraction
8. Landing gear extension

Cross country checkout (when ready for cross country flights)

- Fully disassemble the glider and install in trailer
- Fully assemble the glider
- Personal landout kit

- Positive control check
- Trailer inspection
 - Tires
 - Spare
 - Lights
 - Registration
 - Hitch
 - Towing on highway

Reviewed by _____

Date _____

Written by Bill Corbin
1 August 2023