Bob Carlton Vertigo Airshows

604 Newport Ct. SE Albuquerque, NM 87123 (505) 239-5967 bob@vertigoairshows.com

## Super Salto JET SAILPLANE

 **Performance Overview** 02/18/2014

Launch & Climb

I will spin up the engine about 2 minutes before I launch. The launch and climb to 2000’ AGL will take about 1.5 minutes. During this time, the announcer will fill with intro information.

Act 1

Act 1, starts at mid-field, approximately 2000’ AGL. As I Approach 2000’, I will call “Glider is 15 seconds out”. As I start the wing tip smoke, I will call for the announcer to begin track 1, a soft piano piece chosen especially for the act. Act 1 lasts approximately 4 minutes. Once the wingtip smoke and music begin, announcer should remain quiet

Transition

A short transition (about 15 seconds) follows act 1. I will call the announcer to switch to track 2.

Act 2

Act 2, begins at approximately 500’. I will restart the wingtip smoke and begin the low, jet powered aerobatic sequence as soon as the announcer starts track 2. Act 2 lasts approximately 4 minutes.

Landing & Taxi

I will call last pass or landing approach. The announcer can fill this portion with pilot, aircraft and sponsor information. Show schedule and airport layout permitting, I will taxi to the crowd.

## Super Salto Jet Sailplane Announcer Script

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**Launch & Climb** (1.5 minutes)

Announcer: (Beginning of takeoff) **Introduction**

“Ladies & gentlemen, since 20 years before the Wright Brothers invented the tow plane, intrepid aviators, such as Otto Lilienthal and Octave Chanute were successfully piloting soaring aircraft. Emulating the bird’s ability to use rising air currents, they began man’s adventures in flight.

With no other launch method available, they launched their frail craft from ridges and hills. The need to launch from elevated terrain or be towed aloft has long been the nemesis of sailplane flying. But no longer…

Bob Carlton has mounted a jet engine to his Super Salto sailplane that allows him to not only launch his aircraft, but also do amazing high speed, low level aerobatics. Folks, remember, Bob IS a retired rocket scientist.

For his first act, he will climb to over 2000 feet, and then reduce the jet engine to idle for a classic, silent sailplane aerobatics demonstration. Listen for the rush of the wind over his wings as he begins his aerial ballet.

***Fill with pilot and aircraft information if needed***

Bob: (Near top of climb) “Jet sailplane is 15 seconds out”

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**Act 1** (High silent show - 4 minutes)

Bob: “Announcer, begin track 1”

Announcer: **Begin Music** Track 1 (*Tamara’s Love Theme*)

**Stand by silently for transition call from Bob**

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**Transition** (About 15 seconds)

Bob: “Announcer, begin track 2”

Announcer: *Begin Music* Track 2 *(Rock Out)*

Announcer: Act two Introduction:

Bob will now reposition his Super Salto for a demonstration of low level aerobatics. Listen for the jet engine to spool up as he approaches show center at over 175 MPH. The Super Salto is the only sailplane in the world capable of such a high speed, low level aerobatic performance. Ladies & gentlemen, Bob Carlton & the Super Salto Jet Powered Sailplane!

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**Act 2** (Low jet show – 4 minutes)

Maneuvers: Feel free to ad-lib

**Infinity Pass - Horizontal 8 – From landing speed of only 60 MPH with spoilers out to 175 MPH while pulling 5 G’s. Watch the Super Salto’s wings flex from the strain.**

**½ Looping return – Plenty of energy for the climb**

**Twist-a-roo – A twisted tailslide. Let’s see any other jet do this!**

**Hammerhead return – Rocket scientists love symmetry**

**Cuban 8**

**Hammerhead – 1000 feet straight up!**

**4 Point roll – Hard to do with such long wings**

**Wingover return**

**Predator Pass – This pass is dedicated to the men & women who fly our UAVs and engage the enemy while keeping our troops out of harm’s way. Notice the similarity of the Super Salto’s inverted V tail to the Predator UAV.**

***Fill with pilot and aircraft information if needed***

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**PILOT INFORMATION**

Name: Bob Carlton

From: Albuquerque, NM

Age: 53

Flying for 35 years.

6th year doing airshows with the Super Salto jet sailplane

The Super Salto is Bob’s 2nd jet sailplane

Bob also flies hang gliders, power planes, and helicopters.

Dropped hang glider from balloon at 13000’ in 1982

Flown hang glider over 100 miles, sailplane over 200 miles

# SPONSOR INFORMATION

* **PBS, Czech Republic. Makers of the TJ-100 jet engine that powers Bob’s Super Salto.**
* **PBS has been making military-grade hardware for decades, including the APUs on many Russian fighters**
* **The TJ-100 is fully computer controlled and operated. It weighs 40 pounds and puts out an incredible 240 pounds of thrust.**
* **The engine is fully capable of powering many small aircraft.**
* **Thanks PBS for a superb engine.**

Custom Component Manufacturing by:

**Excel Manufacturing**

**MM Fabrication**

**Precision Fabrication**

Lighting by:

**Whelen Engineering**

Parachute furnished by:

**Strong Enterprises**

Maintenance by:

**Enchantment Aero Services**

Avionics by:

**Microair Avionics - Queensland, Australia**

Digital Instruments by:

**US Aviation**

**Blue Sky Avionics**

**Flight Data Systems**

Turbine oil by:

**Elite Etc.**

Specialty Eyewear by:

**Clic glasses**

Night Show Music

 **Alice Evans - AliceEvans.com**

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**AIRCRAFT INFORMATION**

Type: **Super Salto**

Built in Germany by: **Start & Flug**

Most Powerful jet sailplane in the world

All composite construction

Jet engine by:

**PBS Czech Republic (Engine originally designed as Russian fighter jet APU)**

Engine thrust: **225 pounds**

Engine weight: **40 pounds**

Engine installation designed by Bob

Fuel burn: **35 gal/hr on takeoff**

Wingspan: **42 feet**

Empty Weight: **450 pounds**

Max speed: **175 MPH**

Cruise at 75% thrust: **140 MPH**

Local Sponsor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Special Hello to: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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## NIGHT SHOW NIGHT SHOW NIGHT SHOW

 **Performance Overview** 06/12/2012

Launch & Climb

I will spin up the engine about 2 minutes before I launch. The launch and climb to 2000’ AGL will take about 1.5 minutes. During this time, the announcer will fill with intro information.

Fire & Lights night pyro aerobatics

The performance starts at mid-field, approximately 2000’ AGL. As I Approach 2000’, I will call “Glider is 15 seconds out”. As I prepare to ignite the pyro, I will call for the announcer to begin track 1, a soft piano piece chosen especially for the act. Act 1 lasts approximately 4 minutes. Once the pyro and music begin, announcer should remain quiet

Landing & Taxi

I will call last pass or landing approach. The announcer can fill this portion with pilot, aircraft and sponsor information. Show schedule and airport layout permitting, I will taxi to the crowd.

## Super Salto Jet Sailplane NIGHT SHOW Announcer Script

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**Launch & Climb** (1.5 minutes)

Announcer: (Beginning of takeoff) **NIGHT SHOW Introduction**

“Ladies & gentlemen, since 1903, airplanes and fire have been mortal enemies. Tonight Bob Carlton brings them to a snarling truce aboard the Super Salto jet powered sailplane.

With over 160 aerial pyrotechnic events attached to the wings, fuselage and tail of his aircraft, Bob will light up the night sky with a jet powered ballet.

***Fill with pilot and aircraft information if needed***

Bob: (Near top of climb) “Jet sailplane is 15 seconds out”

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**Act 1** (High silent show - 4 minutes)

Bob: “Announcer, begin music”

Announcer: **Begin Music**Night music ***(****Canyon River)*

**Stand by silently for landing call from Bob**

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Night Show Music *“Canyon River”*

Courtesy Alice Evans. Visit [www.aliceevans.com](http://www.aliceevans.com)

***Fill with pilot and aircraft information if needed***