



REDFOX Airshows

Emergency Extraction Procedures



This document is a guide for emergency personnel when responding to an emergency or accident involving Yuichi Takagi and the REDFOX Airshows Pitts S-2S. This aircraft does not have an ejection seat or any type of explosive system to jettison the canopy, so responders need to do everything manually.

Upon reaching the aircraft in the event of an emergency or accident the steps to be followed are:

1. OPEN / BREAK THE CANOPY

The canopy on the Pitts S-2S will be unlocked by lifting the small **CANOPY RELEASE LEVERS** that are located one each on the left and right of the canopy (Figure 1 and 2), then slide it toward the aft.



Figure 1
– Canopy Release
Lever (Left)



Figure 2
– Canopy Release
Lever (Right)

In the event that the canopy cannot be opened, grab the tail of the canopy and peel off the plexiglass (Figure 3).



Figure 3 – Grab and Peel off the Canopy

2. SHUT DOWN THE ENGINE

If the engine is still running, pull the **RED MIXTURE LEVER** full aft to cut-off the fuel flow to the engine immediately (Figure 4).



Figure 4 – Mixture Lever

Then, pull the **BLACK THROTTLE LEVER** full aft to close the air supply to the engine (Figure 5).

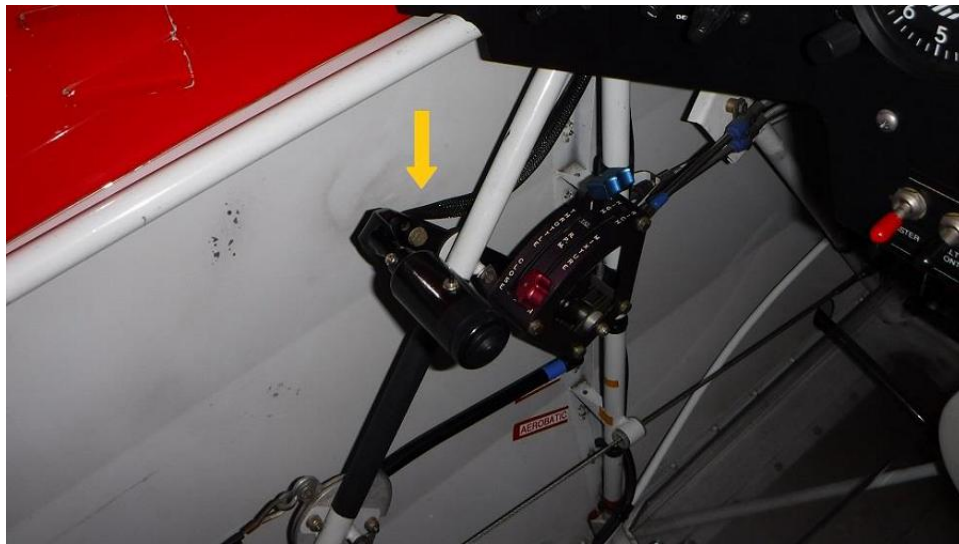


Figure 5 – Throttle Lever

Additionally, you will need to turn the **BLACK IGNITION SWITCH** off by rotating it counter clockwise to the stop (Figure 6).



Figure 6 – Ignition Switch

3. SHUT-OFF THE FUEL

To shut-off the fuel supply, you will need to turn the **FUELTANK SELECTOR LEVER** counter clockwise to the OFF position (Figure 7).

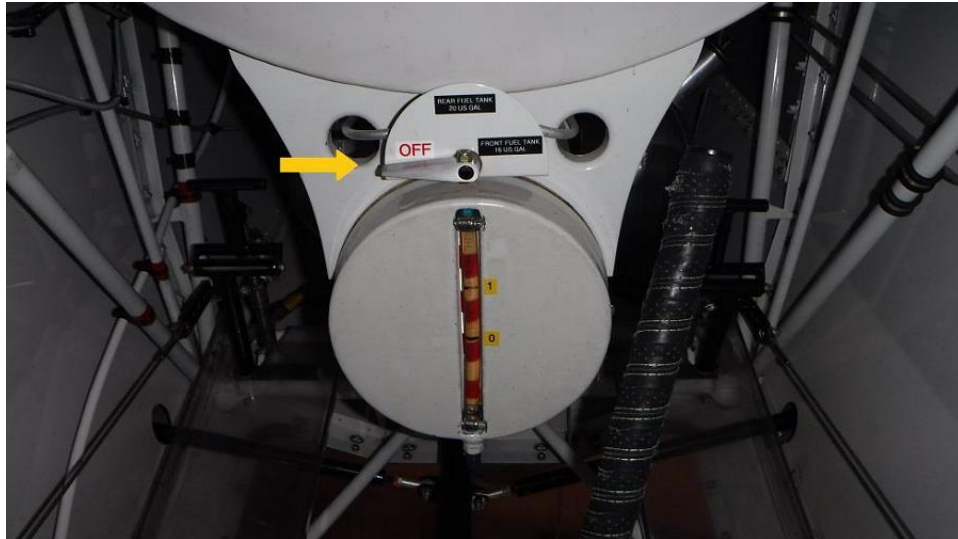


Figure 7 – Fuel Tank Selector Lever

4. TURN-OFF THE ELECTRICAL SYSTEM

To turn off the electrical system, you need to push the **RED MASTER SWITCH** down (Figure 8).



Figure 8 – Master Switch

5. RELEASE THE SAFETY BELTS

The REDFOX Airshows Pitts S-2S is equipped with a set of the Hooker Harness Aerobatic system (Figure 9). The set is made up of two lap belts, two shoulder straps, and a crotch strap.



Figure 9 – Safety Belts

In order to remove the pilot from the aircraft, you will need to release the **LATCHES** on both of the lap belts (Figure 10).



Figure 10 – Latches of the Safety Belts

6. EXTRACT THE PILOT

Before removing the pilot, you will need to disconnect the helmet. This is accomplished by disconnecting the **PLUG** at the end of the **HELMET CORD** from the receptacle panel which is located on the right side of the cockpit (Figure 11).



Figure 11 – Helmet Cord

Once you have reached this point, the pilot can be removed from the aircraft by grab the parachute harnesses (Figure 12).



Figure 12
– Parachute
Harness

Lift the chin strap clip on the right side of the helmet to remove it from the pilot (Figure 13).



Figure 13 – Chin Strap Clip



If you or any member of your team is unclear about any of these procedures, please contact the performer, Yuichi Takagi, and he will clarify any details.

We also encourage you to set up a meeting between Yuichi Takagi and your EMS and Rescue Personnel prior to your event so that he can demonstrate, in person, all of the procedures detailed in this document.

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