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## SERVICE BULLETIN

#0007

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### The Airplane Factory (Pty) Ltd. Considers Compliance with all Service Bulletins Mandatory

**RELEASE DATE:**

**EFFECTIVE DATE:** 12/11/2015

**SUBJECT:** Master Key Failure

**MODELS AFFECTED:** Sling LSA, Sling 2 and Sling 2 Taildragger fitted with the Rotax 912iS engines.

**COMPLIANCE TIME:** Next major periodic inspection

**PURPOSE:** Add a 30 amp Master Toggle Switch to the electrical wiring of the aircraft

**PARTS/EQUIPMENT LIST:**

Quantity	Part
1	Tyco electronic master switch (30 Amps)
1	12mm Drill Bit
2 meters	## gauge wiring
1	Crimping Pliers

**INSTRUCTIONS:**

1. Disconnect the battery entirely
2. With reference to the below pictures and diagrams, a master switch needs to be installed so as to avoid the master key burning out.
3. Find a suitable place on your instrument panel to insert the master switch. Using a 12 mm drill bit and a pneumatic drill, drill a hole into the desired spot on the instrument panel.
4. Loosen and remove the nuts on the master switch, push the master switch through the back of the panel so as to have the switch point out from the instrument panel, make reference to figure 1 below.

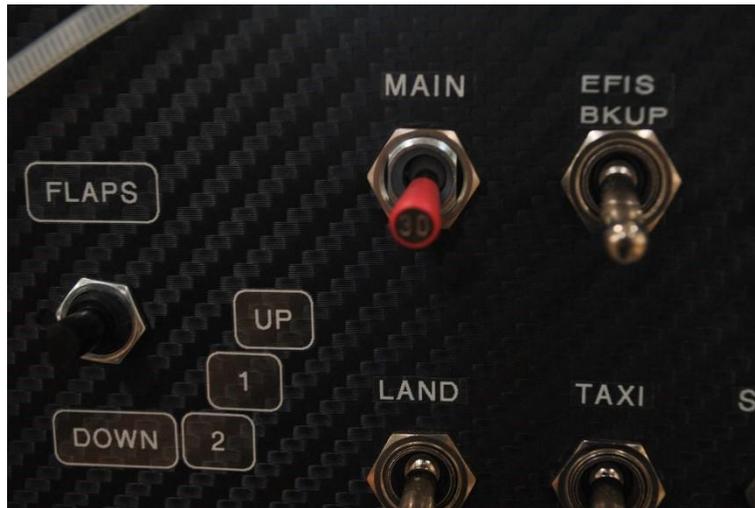


Figure 1: Master Switch Installed

5. With reference to the electrical diagram below (figure 3). Measure the following distances:
  - a. Master Switch to the ignition key (Batt)
  - b. Master Switch to the Main Battery
  - c. Master Switch to the Main Bus
6. Once the above measurements have been taken, cut the wire to the length measured.
7. Remove 5 mm of insulation off each end of each wire.
8. Using the 4 mm ring terminals, attach and crimp them to the ends of the wires that will be connected to the Master Switch.
9. Attach them to the master switch as shown in figure 2 below.
10. Ensure that the wire that comes from the battery to the master switch is also connected with the master switch to main bus wire.

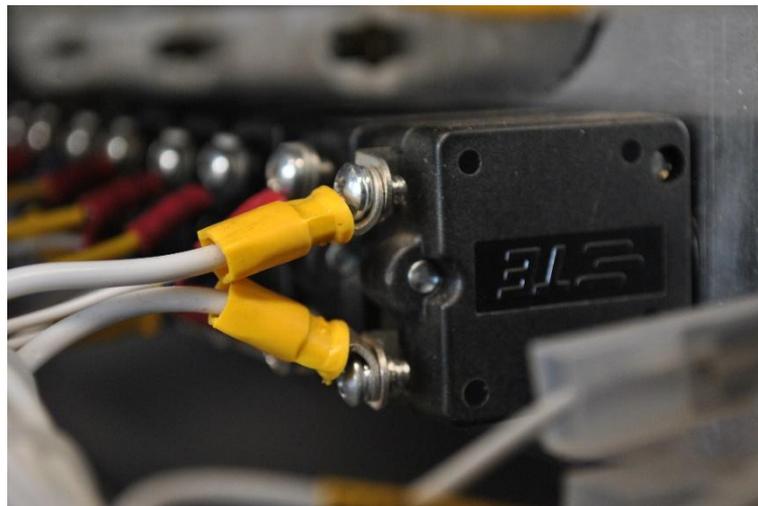


Figure 2: Master Switch Wire Installation

11. Take the wire that needs to be attached to the battery and crimp the ## mm ring terminal to other end of the wire.
12. Take the wire that needs to be connected to the ignition switch from the master switch and crimp a ## mm ring terminal to the other end of the wire. Connect it to the BATT terminal of the Starter Key.

- 13. Take the wire that will connect the master switch to the main bus and crimp a ## mm ring terminal onto the other end of the wire. Connect the ring terminal to the same place as the battery connects to the main bus.**
- 14. Connect the wire that comes from the master switch to the battery to the positive terminal along with all other wires that need to be connected to the positive terminal**
- 15. Reconnect the negative cables to the battery.**