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S.I.L. NO. 01-560-03

SERVICE INFORMATION LETTER

FROM: JetProp LLC

12 Apr 01

SUBJECT: Auto Ignition Upgrade Instructions

TO: Owners of JetProp #1 through # 37

The auto ignition system was installed on JetProp DLX conversion number 38 and later. When selected, the auto ignition system automatically activates the ignitors when the torque drops below approximately 400 ft-lb. In the unlikely event of an engine failure, the torque drops almost immediately below 400 ft-lb of torque which automatically activates the ignitors (Auto ignition selected) providing ignition for an immediate relight without any pilot action required. The operation and use of the auto ignition system is outlined in the JetProp Flight Manual Supplement, change 8. Attachment 1 to this Service Information Letter provides guidance for the installation of the auto ignition system on JetProp conversions 1 through 37 that have not already been upgraded with the system. Compliance with this Service Information Letter is highly recommended. If there are any questions on the upgrade instructions, please contact Rich Runyon in Engineering or Curtis Vandegriffe the chief of maintenance at (509) 535-4401.

Rocket Engineering is dedicated to continuing to improve the JetProp DLX Conversion and to supporting our customers.

Sincerely,

Darwin C. Conrad
President
JetPROP, LLC

Attachment 1. Auto Ignition Upgrade Instructions

Attachment 1 Auto Ignition Upgrade Instructions

1. Remove the top cowling to gain access to the front right side of the engine.
2. Remove the oil line running to the torque transducer at the fitting installed in the engine (Refer to Figure 1 and Drawing 560.07.200). Remove the large fitting from the engine.
3. Install the 560.07.219 large fitting into the engine, the 5404-4-2 pipe union, 5605-2-2-2 Pipe Tee, 2404-4-2 Pipe to Flare union, and Auto Ignition Pressure Switch as shown in Figure 1 and Drawing 560.07.200.
4. Connect the oil line removed in step 2 to the 2404-4-2 flare fitting.

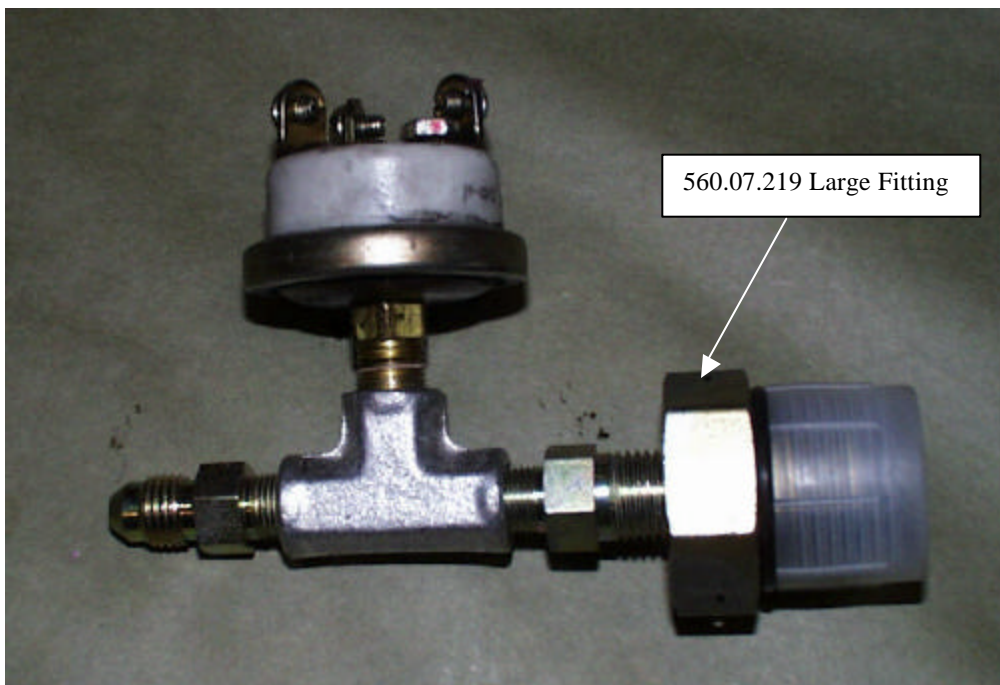


Figure 1. Auto Ignition Pressure Switch Installation

5. Refer to Drawing 560.12.009 for the electrical schematic. Remove the ground wire from the NC terminal of the condition lever switch located on the top aft right side of the engine and shown in Drawing 560.07.200 Sheet 6 and Figure 2. This ground wire is no longer needed.
6. The ignition switch will be removed and replaced with a three position switch (ON OFF AUTO). In accordance with Drawing 560.12.009, run an 18 gauge wire from terminal 3 of the new ignition switch through connector JP 303 (located just behind the instrument panel) to the auto ignition pressure switch on the forward right side of the engine.
7. Route another 18 gauge wire from the auto ignition pressure switch back to the ignition unit pin 1. The ignition unit is located on the left aft part of the engine (Figure 8).

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8. Be sure to route the wires through the heat protective sleeve around the exhaust (hot section) and as much as possible route along the wire bundle. The recommended routing for the new wires is as shown in Figures 3 thru 7.
9. The following sample log book write up is included for your assistance:

N1234SH..SN 4612345..Total Time 345.6..Hobbs Time 123.4..Date 12 Apr 2001

Complied with JetProp LLC Service Letter 01-560-03, Dated 12 Apr 2001, Titled "Auto Ignition Upgrade Instructions". Details are contained in the installation instructions contained within the service letter. This Service Letter is to be maintained as a part of the aircraft's maintenance records.

Fred Glotz, AP 123456789

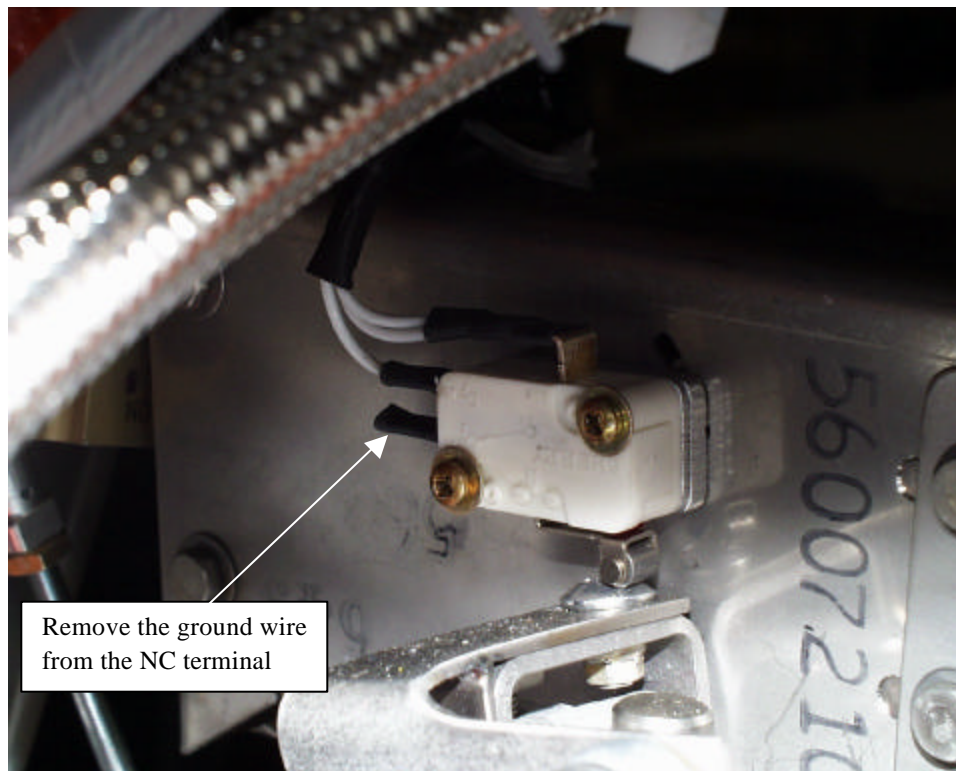


Figure 2. Condition Lever Switch

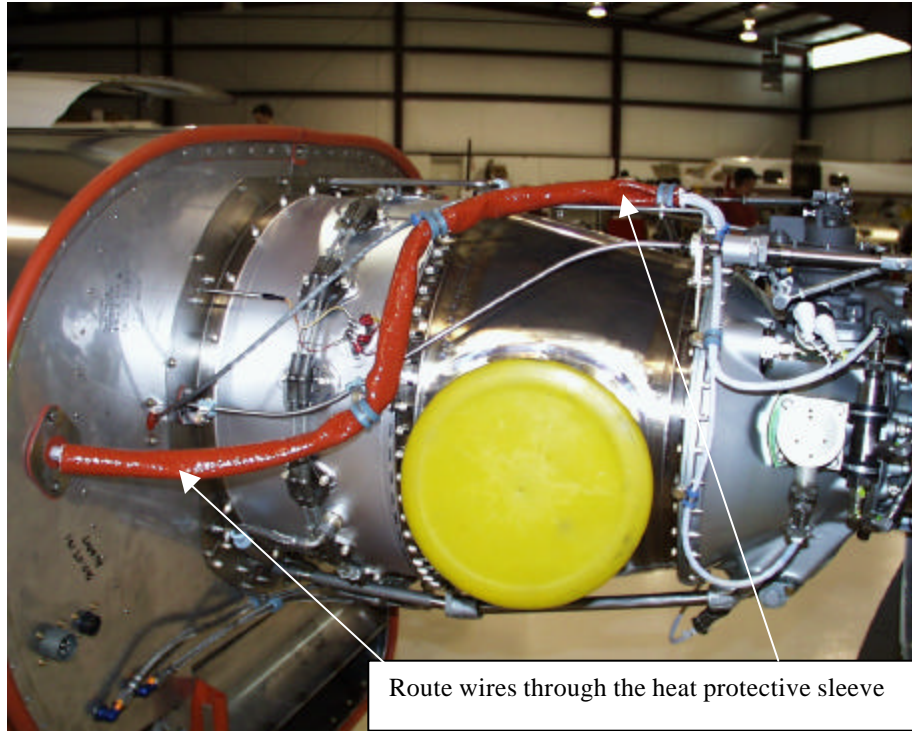


Figure 3. Wire Routing Around Hot Section

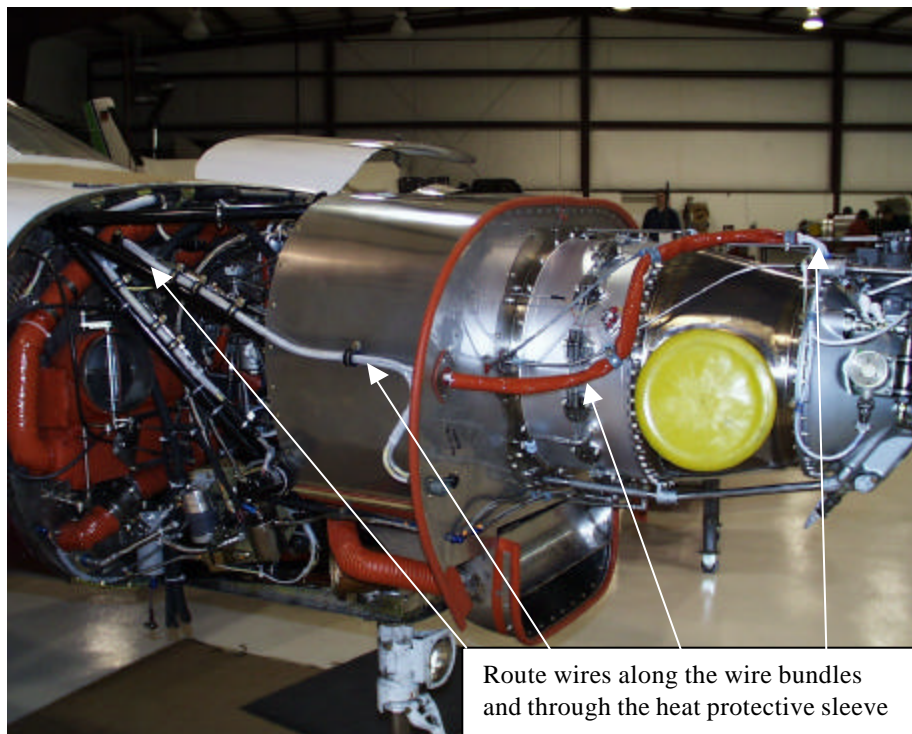


Figure 4. Wire Routing Along the Right Side of the Engine

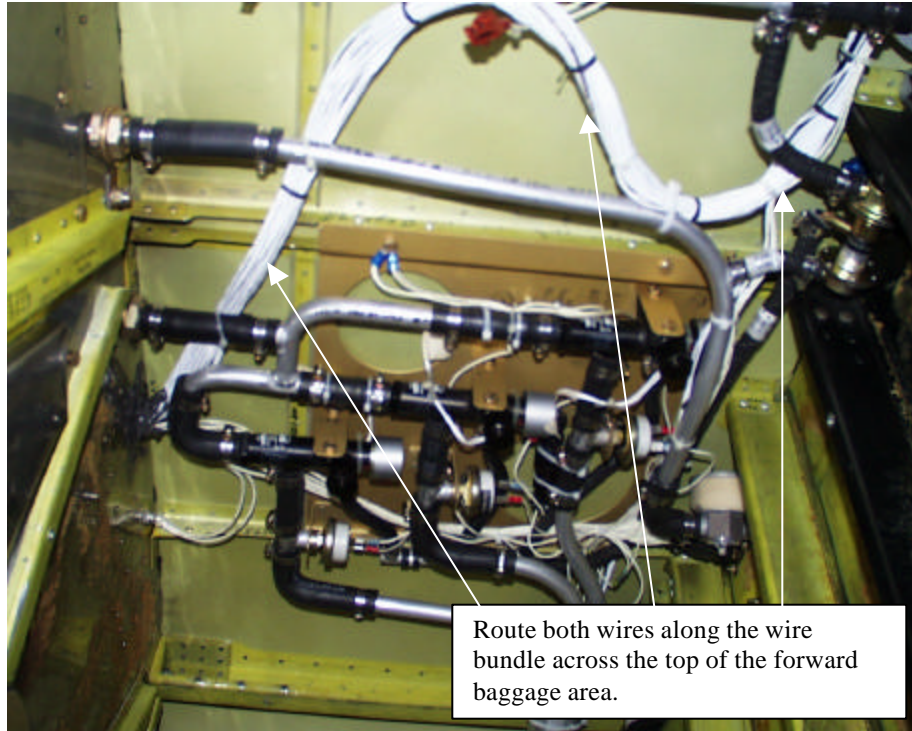


Figure 5. Wire Routing Across the Top of the Forward Baggage Compartment

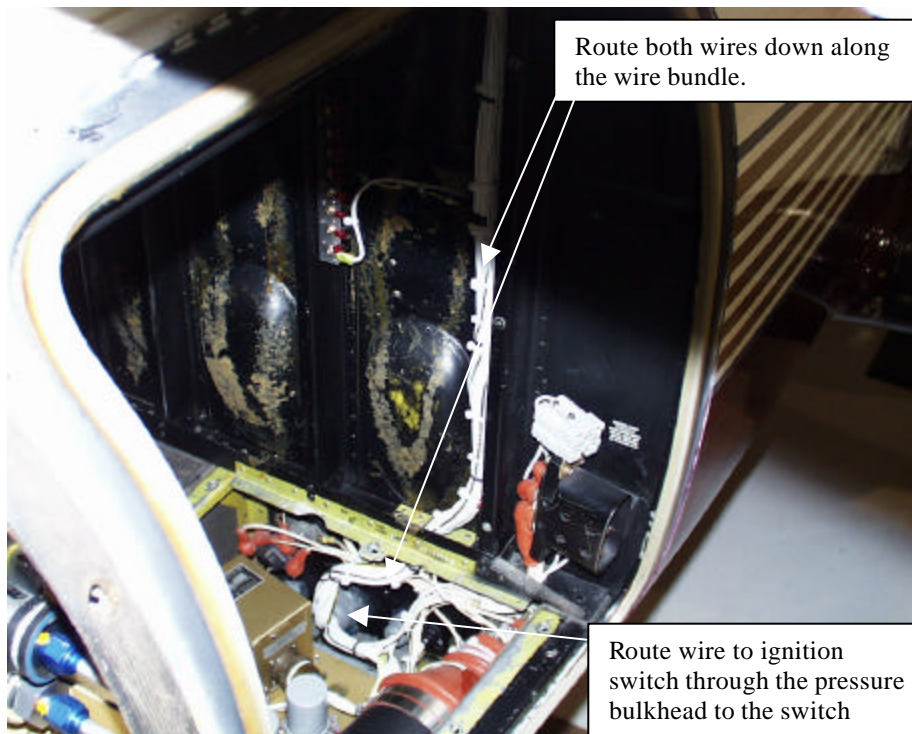


Figure 6. Wire Routing Along the Forward Side of the Pressure Bulkhead

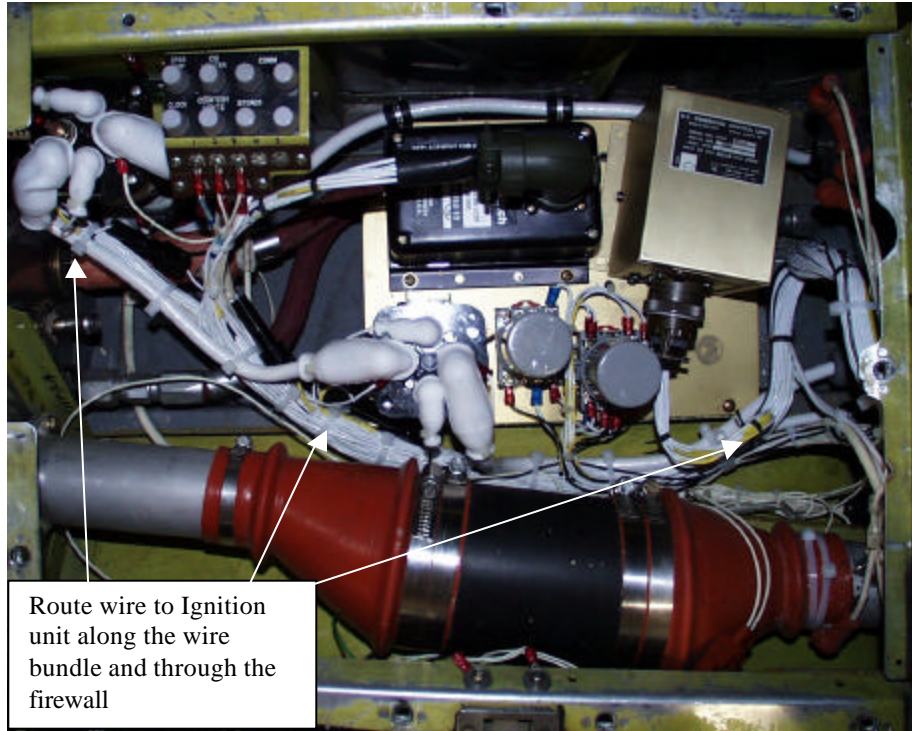


Figure 7. Wire Routing Through the Electrical Compartment in the Forward Baggage Area

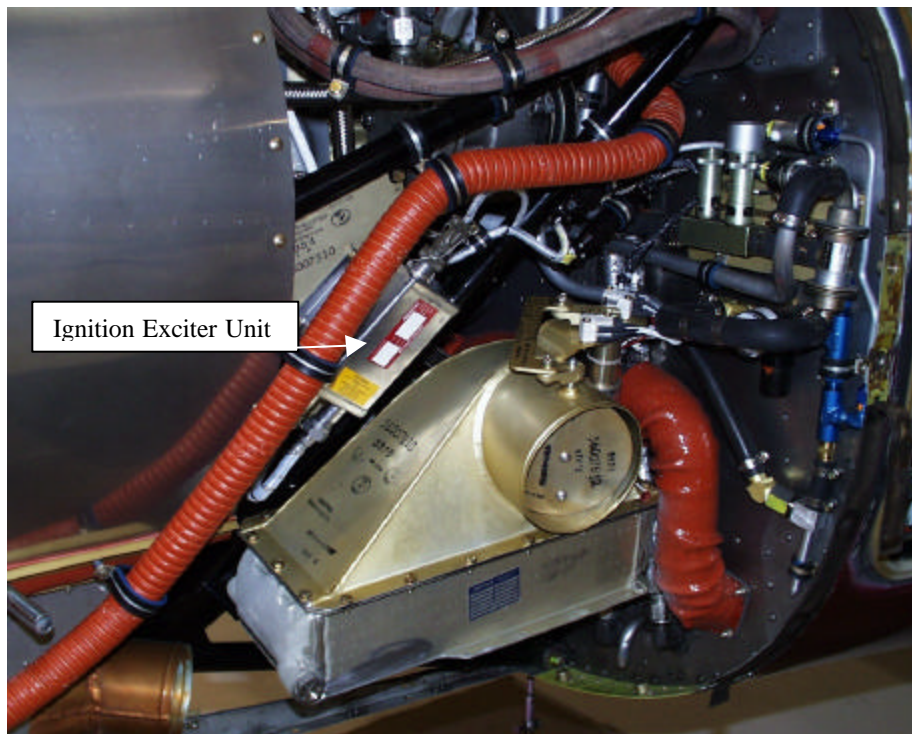


Figure 8. Location of Ignition Unit