

S.I.L. NO. 03-560-07

SERVICE INFORMATION LETTER

FROM: JetProp LLC

18 September 2003

SUBJECT: Three Position Battery Switch Upgrade


TO: JetProp Owners for JetProps #1 - 70 (Unless already upgraded)

A three position battery switch was approved and installed on JetProp # 71 and later conversions. This battery switch allows the pilot to select battery #1, both batteries, or battery #2. Normal operation is in the both position. This eliminated the dual battery momentary switch used during engine start and eliminated the need to switch batteries during flight to keep both batteries charged. This change has reduced the pilot work load and helps keep both batteries more fully charged.

Attachment 1 to this service information letter describes the procedure for installing the three position battery circuit upgrade. If there are any questions, please contact Jon Larson the chief electrician 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. Battery Circuit Upgrade

BATTERY CIRCUIT UPGRADE, FIELD MODIFICATION KIT AND INSTRUCTIONS

CONTENTS:

1. Instructions
2. Relay assembly
3. Wire harness
4. Battery selector switch
5. Battery selector switch cover
6. Wiring diagram

INSTALLATION INSTRUCTIONS

PREPERATION:

- a. Remove left side of interior, including side panel and carpet in pilot rudder well.
- b. Disconnect batteries #1 and #2
- c. Open battery C.B.

Note: Newer aircraft with overhead switches must have the pilots side window trim panel removed and pilots overhead switch panel removed to facilitate routing of the wires.

MODIFICATION:

Find a suitable location in the pilot side floor, mount the relay panel to an oval floor panel.

Route the connector from the harness down to the connector on the relay panel and connect it. Route the 5 short wires labeled switches, to the battery selector and battery master switch, the 4 long wires labeled contactors, to the battery contactors.

Disconnect cap and tie back the following control wires on X-2 of both battery contactors.

JPP33A18

JPP34A18

Do not remove any of the diodes located on the contactors.

Connect new wiring in the following manner.

Cont. #1 X1 to battery contactor #1 terminal X1

Cont. #1 X2 to battery contactor #1 terminal X2

Cont. #2 X1 to battery contactor #2 terminal X1

Cont. #2 X2 to battery contactor #2 terminal X2

Disconnect cap and tie back the following wires on the battery selector switch.

JPP33A18

JPP34A18

Remove and discard the following wires.

JPP36A18

JPP36B18

JPP35A18

Leave wire # JPP35C18N connected to the Battery Master switch as it is the system ground.

Remove the old battery selector switch and Dual Battery switch and discard.

Connect new wiring to the new battery selector switch in the following manner.

Batt Sel 1 to battery selector switch terminal 1

Batt Sel 2 to battery selector switch terminal 2

Batt Sel 5 to battery selector switch terminal 5

Batt Sel 6 to battery selector switch terminal 6

Connect the last remaining wire as follows

Batt Mast 1 to battery master switch terminal 1

OPERATIONAL CHECK OUT

1. Connect battery #1.
2. Reset battery C.B.
3. Place new battery selector switch in Batt 1 position.
4. Turn on Battery Master switch and ensure power comes on. Note: If power fails to come on place the battery selector switch to the #2 position, if power comes on turn the battery selector switch over and install battery selector switch cover.
5. Turn Battery Master switch off.
6. Connect #2 Battery.
7. Place Battery selector switch to #2.
8. Turn on Battery Master switch and ensure #2 battery applies power, turn off Battery Master switch.
9. Disconnect #1 Battery.
10. Place battery selector switch to both position.
11. Turn on Battery Master switch and ensure power comes on, turn off Battery Master switch.
12. Connect #1 Battery and disconnect #2 Battery.
13. Turn on Battery Master switch and ensure power comes on.
14. Connect #2 Battery.
15. Reinstall interior.

