



**North America's
Full Service
Jabiru Center**

www.usjabiru.com email: info@usjabiru.com phone: 931-680-2800 fax: 931-680-2800
2842 Highway 231 North, Shelbyville, TN 37160

NOTIFICATION	
Service Bulletin #	JSA-N001-1
Superseded Bulletin #	JSA=N001
Issue Date	08/27/2009
Effective Date	08/27/2009
Limitations for Completion	At Owner / Operator Option
Make & Model Affected	J250-SP Serial # 248 through 623
	J230-SP Serial # 248 through 623
	J170-SP Serial # 36 through 175
Page 1 of 6	

This issuance of JSN-001-1 is to put the superseded bulletin in the correct format as specified in ASTM F2295

1 Applicability

The changes detailed herein are suitable for all Jabiru USA Sport Aircraft, LLC aircraft models: J170-SP, J230-SP, and J250-SP through the serial numbers listed above. Aircraft manufactured subsequent to the listed serial numbers have the new starter ground location.

Note: for LSA category aircraft, this Notification is equivalent to an Optional Manufacturer authorized modification. The manufacturer suggests that improved starting performance could result from implementation but implementation is strictly optional.

2 Background

2.1 General

The modification detailed in this Letter increases the current available to engine's starter motor, improving cranking speed and engine starting.

Shown below in Figure 1 is a typical starter motor ground cable installation.

Figure 2 shows the improved ground cable installation.

Figure 3 shows an alternate routing of the starter ground cable.

www.usjabiru.com email: info@usjabiru.com phone: 931-680-2800 fax: 931-680-2800
2842 Highway 231 North, Shelbyville, TN 37160

NOTIFICATION	
Service Bulletin #	JSA-N001-1
Superseded Bulletin #	JSA=N001
Issue Date	08/27/2009
Effective Date	08/27/2009
Limitations for Completion	At Owner / Operator Option
Make & Model Affected	J250-SP Serial # 248 through 623
	J230-SP Serial # 248 through 623
	J170-SP Serial # 36 through 175
Page 2 of 6	

In the typical installation the motor's earth cable is connected to the backing plate of the engine. The modified installation connects the ground cable directly to the starter motor end cap.



Figure 1: Cable to Engine Backing Plate or alternator support.

www.usjabiru.com email: info@usjabiru.com phone: 931-680-2800 fax: 931-680-2800
2842 Highway 231 North, Shelbyville, TN 37160

NOTIFICATION	
Service Bulletin #	JSA-N001-1
Superseded Bulletin #	JSA=N001
Issue Date	08/27/2009
Effective Date	08/27/2009
Limitations for Completion	At Owner / Operator Option
Make & Model Affected	J250-SP Serial # 248 through 623
	J230-SP Serial # 248 through 623
	J170-SP Serial # 36 through 175
Page 3 of 6	



Figure 2 Cable Attached to End of Starter

www.usjabiru.com email: info@usjabiru.com phone: 931-680-2800 fax: 931-680-2800
2842 Highway 231 North, Shelbyville, TN 37160

NOTIFICATION	
Service Bulletin #	JSA-N001-1
Superseded Bulletin #	JSA=N001
Issue Date	08/27/2009
Effective Date	08/27/2009
Limitations for Completion	At Owner / Operator Option
Make & Model Affected	J250-SP Serial # 248 through 623
	J230-SP Serial # 248 through 623
	J170-SP Serial # 36 through 175
Page 4 of 6	

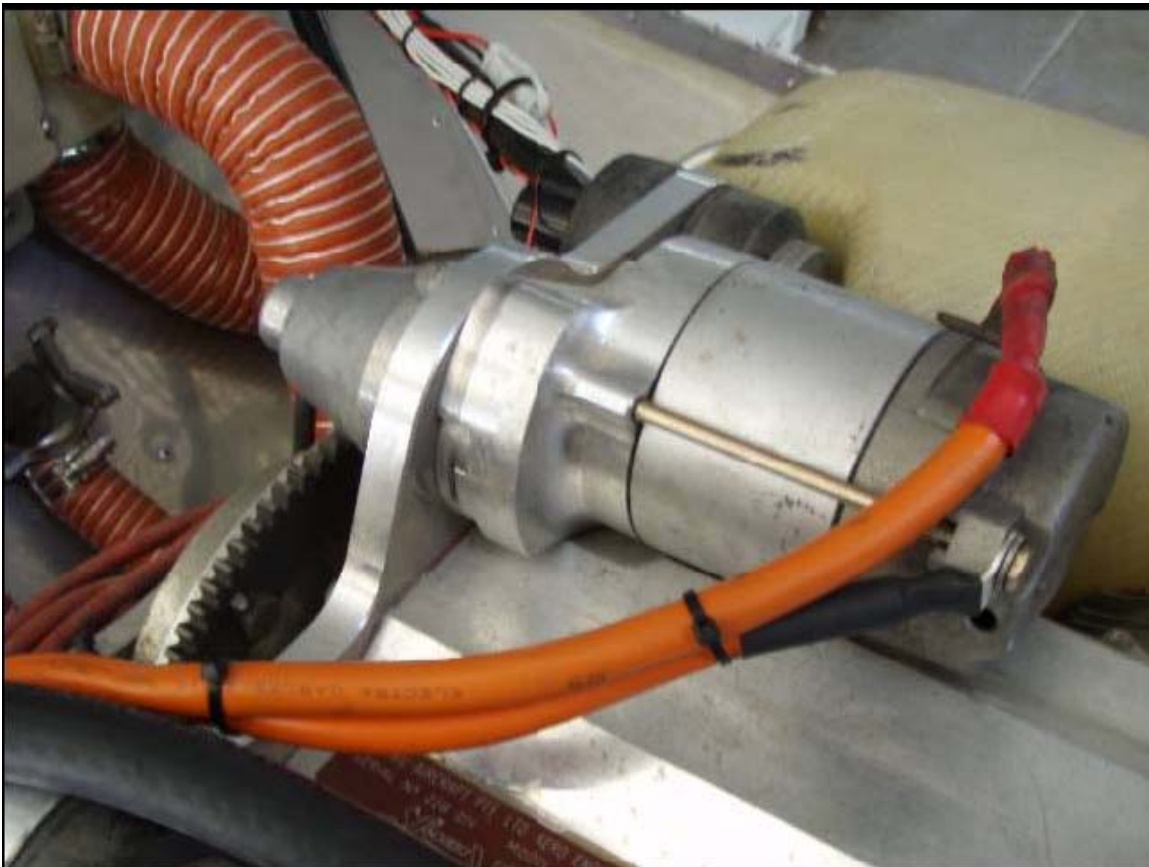


Figure 3: Alternate Cable Attachment

3 Compliance – Implementation Schedule:

For any Jabiru J170-SP, J230-SP, or J250-SP the implementation of this

NOTIFICATION	
Service Bulletin #	JSA-N001-1
Superseded Bulletin #	JSA=N001
Issue Date	08/27/2009
Effective Date	08/27/2009
Limitations for Completion	At Owner / Operator Option
Make & Model Affected	J250-SP Serial # 248 through 623
	J230-SP Serial # 248 through 623
	J170-SP Serial # 36 through 175
Page 5 of 6	

Notification is recommended. Implementation is at the option and convenience of the owner / operator.

4 Procedure

- a) Remove the cable from under the cap screw on the engine backing plate or bolt on the alternator support bracket.
- b) Re-fit the cap screw to the engine backing plate or bolt to the alternator support bracket. A washer must be fitted underneath the head of the cap screw or bolt.
- c) Before installing, clean any grime or corrosion off the mating surfaces of the motor and the cable to ensure a good electrical connection
- d) As this is a 3/16th bolt a AN960-416 washer under the head of the bolt is required to ensure good contact with the ground cable end terminal.
- e) Remove the bolt that holds the starter body together and clean the thread of the starter motor through-bolt, removing old Loctite.
- f) Fit the AN960-416 washer on the bolt and then the cable under the head of the bolt that holds the starter body together. Apply a small amount of Loctite 242 (approximately the size of a match head) or equivalent to the starter motor through-bolt thread on reassembly.
- g) It may be necessary to cut some cable-ties and re-route the cable slightly to gain sufficient length to reach the end of the starter motor.



**North America's
Full Service
Jabiru Center**

www.usjabiru.com email: info@usjabiru.com phone: 931-680-2800 fax: 931-680-2800
2842 Highway 231 North, Shelbyville, TN 37160

NOTIFICATION	
Service Bulletin #	JSA-N001-1
Superseded Bulletin #	JSA=N001
Issue Date	08/27/2009
Effective Date	08/27/2009
Limitations for Completion	At Owner / Operator Option
Make & Model Affected	J250-SP Serial # 248 through 623
	J230-SP Serial # 248 through 623
	J170-SP Serial # 36 through 175
Page 6 of 6	

h) Once the cable is connected, apply zip-ties as required to restrain the cable. If possible, Zip-tie the cable to the starter motor through-bolt as shown in Figure 1. An alternate cable restraint is shown in Figure 2 and may be used where there is not enough cable length for Figure 1-type restraint. Use Zip-ties to restrain all excess cable loops.

5 Level of Certification Required:

Any work called for by this letter must be carried out by personnel holding a Light Sport Repairman / Maintenance rating or a licensed A&P mechanic.

On completion of the work, the authorized repairman must note the completion of the actions required by this letter in the aircraft's maintenance logbook. This note should specify what work was carried out, reference this Notification, indicate the date of the work and the identity (including license number where appropriate) of the person carrying out the work.