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MANDATORY SERVICE BULLETIN

Service Bulletin: APS-07-01-01

TITLE

Elimination of the potential for interference between fuel lines and the Ground Service Receptacle power cable.

EFFECTIVITY

Make: Cessna
Model: 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R that has STC SA00152WI installed with a Ground Service Receptacle mounted on the firewall.

REASON

To eliminate the possibility of interference between the Ground Service Receptacle power cable, engine fuel lines and fuel strainer cable.

DESCRIPTION

The Ground Service Receptacle power cable and fuel strainer cable will be rerouted to eliminate the possibility of interference and chaffing on the fuel line.

COMPLIANCE

Compliance with this service bulletin is mandatory to enhance safety and must be complied with prior to the next flight per the Instructions Section of this Service Bulletin.

APPROVAL

FAA approval has been obtained on the technical data in this publication that affects airplane type design.

MATERIAL AVAILABILITY

Parts are available from Air Plains Services Corp. Please call 1-800-752-8481 for the latest information, questions or to schedule the service.

INSTRUCTIONS

ACCOMPLISHMENT INSTRUCTIONS

Step I Initial Inspection

1. Remove the upper and lower cowling from the aircraft.
2. At owners discretion perform either step A or step B.
 - A. Disconnect the Ground Power Receptacle cable at the starter relay and at the ground power relay.
 1. Install 1" heat shrink tubing over the ends of the Ground Power Cable and secure with ty raps.
 2. Secure both ends of the ground power cable by folding the cable back and securing it with a ty rap strap. **Figure 2.**
 3. Reinstall the bus cable onto the starter relay and secure.
 - B. Remove the cable from the aircraft.
 1. Reinstall steel fasteners in all firewall holes left empty by the removal of the cable.
 2. Reinstall the bus cable onto the starter relay and secure.
3. Remove the clamp securing the fuel strainer cable from point **A-A Figure 1** and re-secure the cable and point **B-B Figure 1**. Point B is the securing point for the LH cowl flap cable.
4. Inspect the fuel line from the electric fuel pump to the engine driven pump for evidence of chafing.
 - A. If the fuel line has chafed to the point of exposing wire braid on the hose, replace it with a new hose PN AE3663161G0190.
 1. If the fuel line is chafed and requires replacement, remove the Ground Power Receptacle cable from the aircraft per **Step I. 2. B.**
 - B. Adjust the position of the fuel line fitting at the engine driven fuel pump by rotating it clockwise till it is positioned as shown in **Figure 3-1**.
 1. To gain access to the fitting remove the alternator belt and the tension arm bolt. Loosen the alternator pivot bolt and rotate the top of the alternator outboard. This will provide access to the fuel pump fitting. **Ref Figure 3-2**
 2. Reinstall the tension arm bolt and alternator belt. Adjust the belt tension and secure the alternator pivot bolt.

Step II Completion

1. Pressure check the fuel system for leaks if lines were disconnected by placing the throttle in the idle position and the mixture control in idle cutoff. Activate the electric fuel pump ON for 10 seconds and then OFF. Inspect the line connections for leaks.
2. Perform an operational check of the fuel strainer control by checking that the strainer plunger returns to the closed position when the cable is released.
3. Reinstall the cowling.

MATERIAL INFORMATION

Parts required:

Table 1 - Required parts

Part Number	Quantity	Description
M23053/5-110	6"	Heat Shrink
TY525	4	Ty Rap
AE3663161G0190	1	Hose

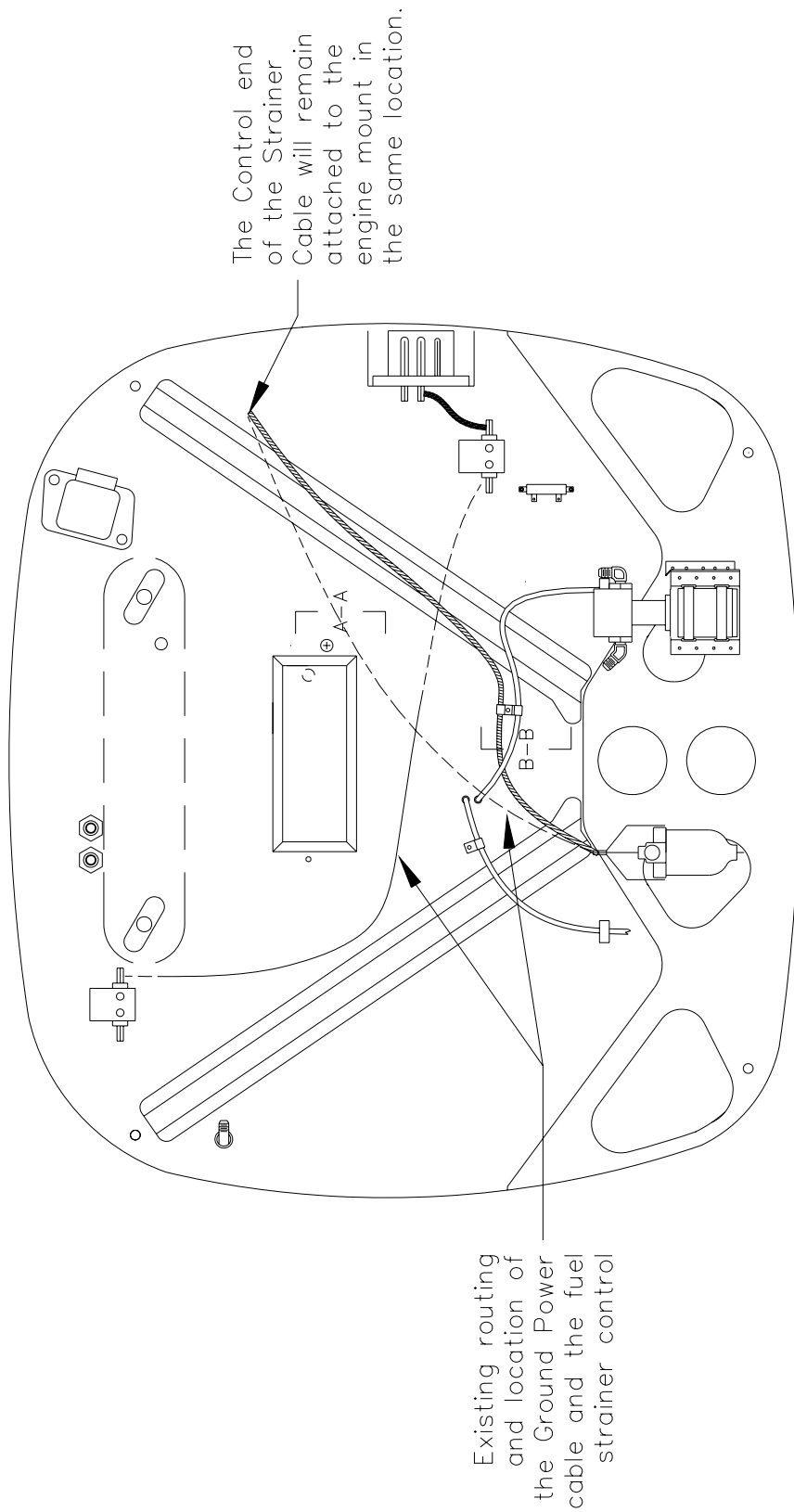


Figure 1
Looking Aft

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Figure 2

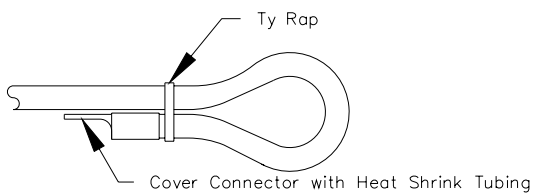
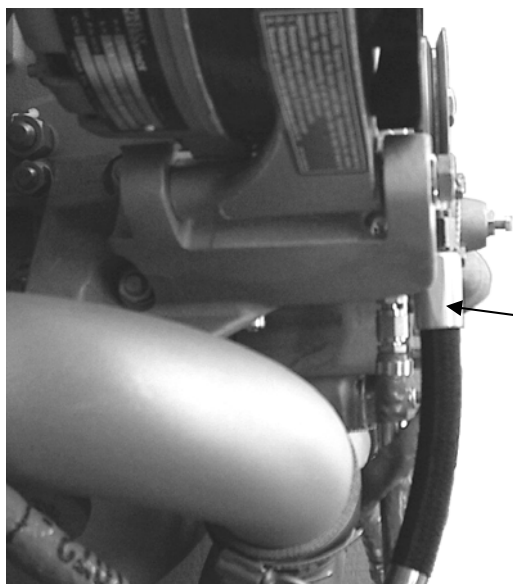


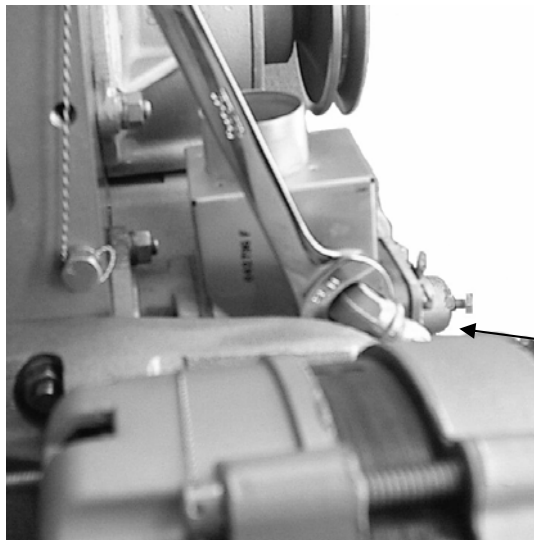
Figure 3-1



← FWD

Fuel line from the electric fuel pump to the engine driven fuel pump. This fitting should be rotated down to provide maximum clearance between the fuel line and the firewall.

Figure 3-2



← FWD

The alternator may be rotated and the fitting accessed to reposition the fuel line as needed.