

SERVICE INSTRUCTION SI0015

EFFECTIVE DATE: This Service Instruction is effective June 16, 2010

SUBJECT: Audio Noise Suppression

MODELS AFFECTED: CC11-160 S/N 00100 through 00125.

COMPLIANCE TIME:

PURPOSE: Filter "noise" before it enters the audio system.

PARTS LIST:

PART NUMBER	DESCRIPTION	QTY
SC56070-001	Alternator Noise Filter Assembly	1
VP6001-003	Terminal Ring 12-10G #10 Stud	1
VP6001-035	Terminal Ring 22-18G #10 Stud	1
STD-1817	Bolt, Alternator Attach	1
AN936-A516	Lock Washer 5/16"	1
SC79910-001	Audio Transformer Assembly	1
VP6007-001	Solder Sleeve (Ø.200)	1

INSTRUCTIONS:

- I. Capacitor**
- II. Audio Transformer**
- III. Ground Bus Bar**

I. Capacitor Installation

1. Remove engine cowling. See Figure 1.



FIGURE 1

2. Remove these two wires from alternator "B+" terminal. See Figure 2.

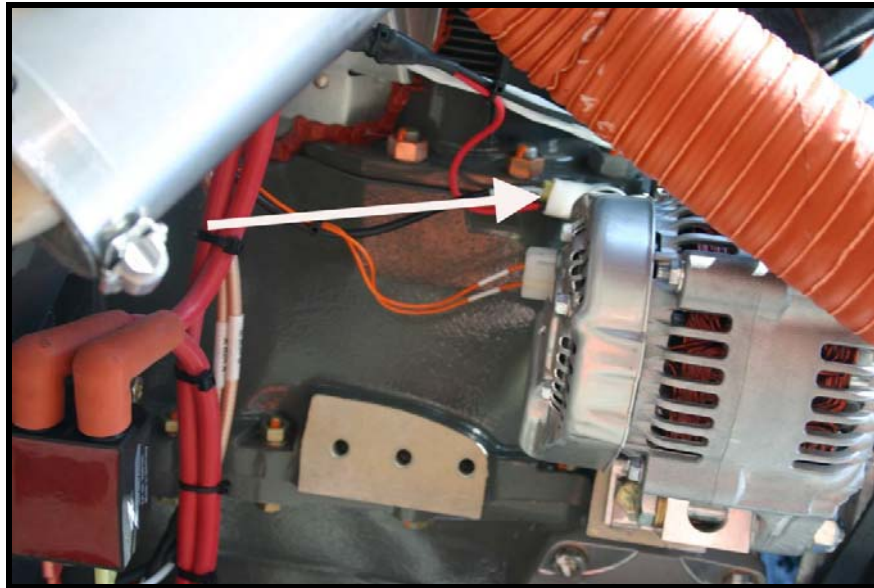


FIGURE 2

3. Remove existing connector from the same two wires and install ring terminals (crimp yellow #10 ring terminal on black wire and red #10 ring terminal on red wire). See Figure 3.

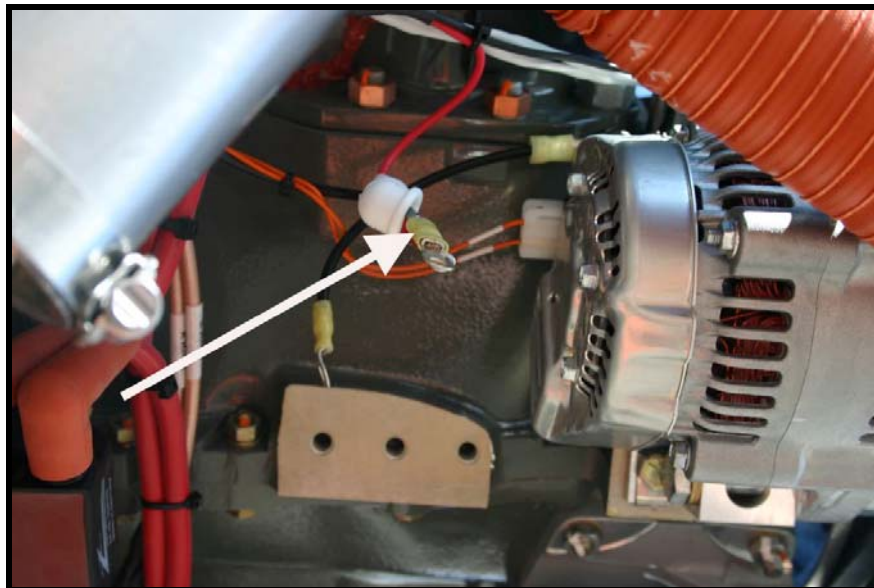


FIGURE 3

4. Clean off area around aft bolt hole on crank case to ensure a good electrical connection. See Figure 4.

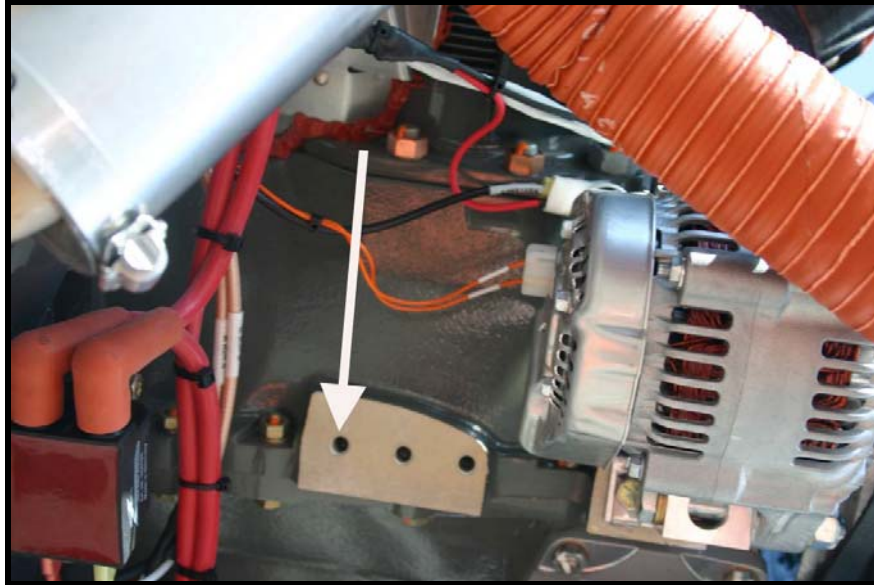


FIGURE 4

5. Install supplied jumper wire (A08C10BK) onto alternator "B+" terminal.

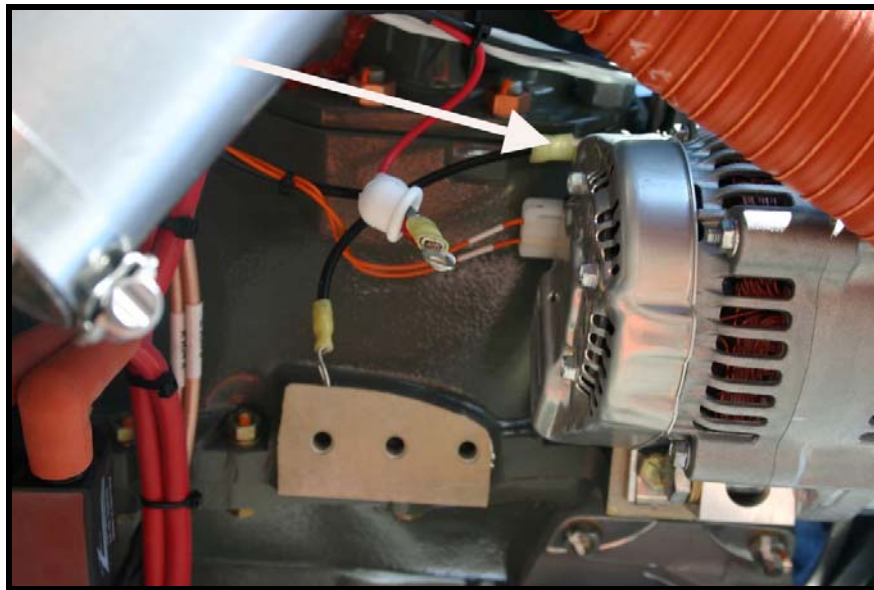


FIGURE 5

6. Connect A08B10BK and A08C10BK to positive (+) side of capacitor. See Figure 5.
7. Install one end of the A08D10BK jumper to the ground on the capacitor. The other end will be installed under the cushioned clamp and bolt into aft hole on case. See Figure 6.



FIGURE 6 - COMPLETED INSTALLATION

II. Audio Transformer Installation

1. Remove audio jack
 - a. Cut both shielded wires going to Audio Jack, 15 inches from jack.
 - i. One wire is AB53B22W-3 going to the Garmin GPS, de-pin this wire from the GPS, completely remove or cap and stow.
 - ii. The other wire is MB23A22W-3 that goes to the PM1200. The Audio Transformer Assemble will be spliced in here.
2. Install Audio Transformer Assembly
 - a. Install audio jack in mounting bracket.
 - b. Cable tie transformer to fuselage tube.
 - c. Insert pins into Garmin GPS:
 - i. WH/BLU into pin 2
 - ii. WH/ORG into pin 3
 - iii. WHITE into pin 19
 - d. Connect the green shield jumper to the shield of the wire going to the PM1200 with Ø.200 solder sleeve.
 - e. Connect the other solder sleeves to the wire(s) going to the PM1200, match colors.
 - f. Secure any loose wires with cable ties.

III. OPTIONAL: Bus Bar Installation

1. Remove ground screws and ring terminals from fuselage tubes under instrument panel.
2. Scuff tubes (using Scotchbrite™) at hole locations to provide good electrical connections.
3. Install one end of new bus bar with a screw into existing fuselage tube hole.
4. Match drill hole on other end of bus bar to existing fuselage tube hole.
5. Install ground bus bar using lock washers on mounting hardware.
(Do not reconnect IG03A200; cap and stow.)

