



SERVICE LETTER 00072

Date Released:	June 19, 2023
Date Effective:	June 19, 2023
Subject:	Ignition Module Firmware Update
Affected Models:	RV-12iS with avionics kits shipped before June 2023 RV-12iS SLSA Serial Numbers 12003, 12076-12128
Required Action:	Install new ES-60016-7.3 microcontroller on AV-60007 Ignition Module
Time of Compliance:	Optional, upon indication of below-described start behavior
Supersedes Notice:	N/A (if applicable)
Labor Required / SLSA Warranty Allowance:	0.5 hours
Level of Certification:	SLSA: LSA Repairman Maintenance or A&P ELSA: Owner (certification not required) <i>Check the rules of the local controlling authority/agency and the operating limitations for your aircraft.</i>

Synopsis:

The AV-60007 Ignition Module includes an onboard microcontroller device that controls start power during the aircraft start-up sequence. After starting the engine, the Ignition Module automatically disconnects start power, and the Rotax 912iS directly powers the fuse box and fuel pumps. Van's aircraft has found that after completion of SB-00058, the Ignition Module may time out early and shut off the fuse box and fuel pumps before starting the engine.

Before engine start, if you find that the fuel pumps shut off automatically one minute after turning the master switch on, complete the steps in this Service Letter. This behavior is not observed in every RV-12iS and may be intermittent.

Materials Required:

The following materials are required to complete the steps necessary to achieve compliance with this Service Letter:

ES-60016-7.3

Method of Compliance:

Step 1: Remove the PFD.

Step 2: Remove the AV-60007 Ignition Module. Reference KAI 42NiS-19 for Garmin installations or 42CiS/U-07 for Dynon installations.

Step 3: Remove the ES-60016 microcontroller from the AV-60007 Ignition Module. See Figure 1.

NOTE: The ES-60016 is retained by the friction of the pins and a strip of hot glue on the top. It can simply be pulled from the AV-60007.

Step 4: Install the ES-60016-7.3 microcontroller on the AV-60007 Ignition Module with the orange dot facing up. See Figure 1.

NOTE: The ES-60016-7.3 can be identified by “7.3” written on the microcontroller chip, as shown in Figure 1.

Step 5: Apply a strip of hot glue across the top of the ES-60016-7.3 and AV-60007 as shown in Figure 1. The hot glue must bridge across both components to retain the ES-60016-7.3.

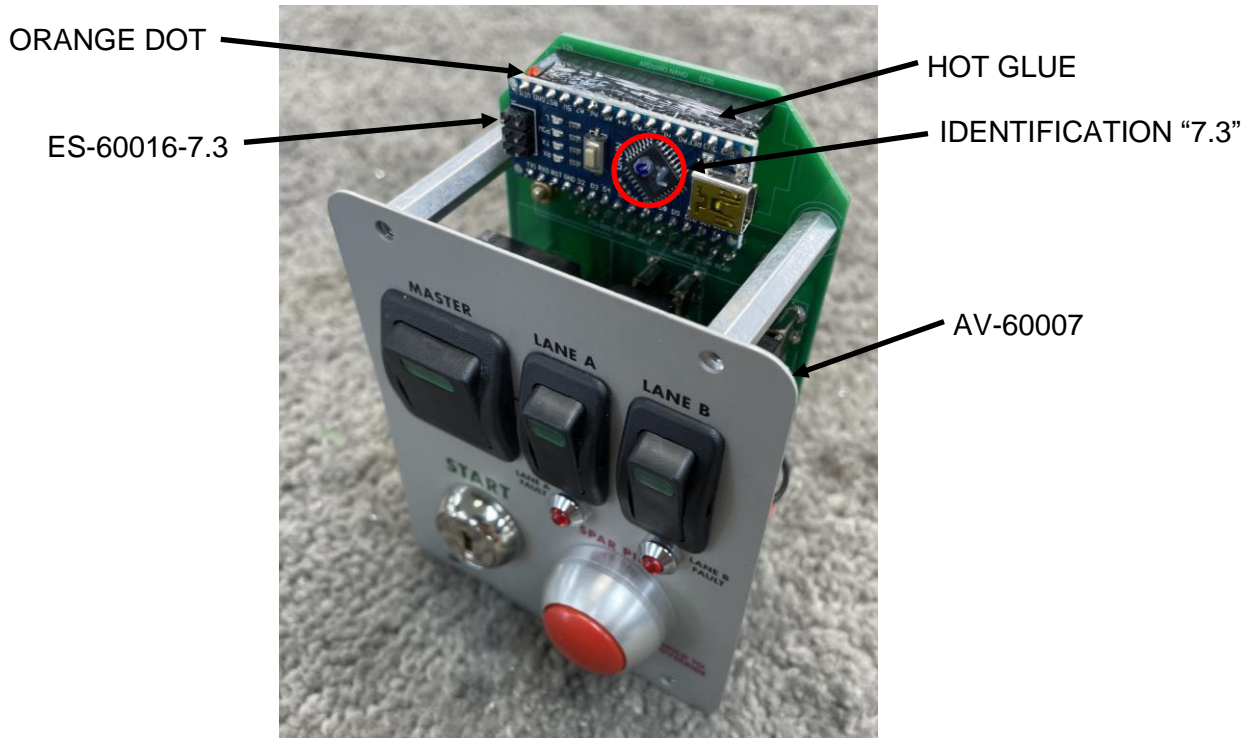


FIGURE 1: AV-60007 IGNITION MODULE

Step 6: Reinstall the AV-60007 Ignition Module. Reference KAI 42NiS-19 for Garmin installations or 42CiS/U-07 for Dynon installations.

Step 7: Reinstall the PFD.

Step 8: Turn on the master switch and verify that both fuel pumps produce sufficient fuel pressure.

Step 9: Make a logbook entry indicating compliance with service document per the requirements of the controlling authority/agency.

Place a copy of this notification in the back of the maintenance manual for your aircraft. Add the name and date of the service information to the Addendum Documents List at the front of the Maintenance Manual.

If you are no longer in possession of this aircraft, please forward this information to the present owner/operator and immediately notify Van's Aircraft, Inc. via email at registrations@vansaircraft.com.

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