

INFORMATION NOTICE

NUMBER: 600870-000042
 SUBJECT: STRATUS ES/ESG SQUITTER FAILURE INFORMATION NOTICE
 COMPLIANCE LEVEL: OPTIONAL
 DATE: 6/04/2021

1. Planning Information

A. Effectivity

(1) Unit Applicability

Model Description	Appareo Part Number	Revisions Affected
Stratus ESG Transponder	153510-000017	501010-000109 R06 and earlier
Stratus ES Transponder	153510-000069	501010-000109 R06 and earlier

(2) Aircraft Affected

Models Affected
ALL

B. Reason

This embedded hardware update fixes an error where some transponders displayed a squitter failure that could not be recovered. This caused a loss of squitter transmissions until the unit was power-cycled.

C. Description

This information notice describes how to download the Stratus ES/ESG Update Tool and apply the embedded hardware update to Stratus ES/ESG.

D. Compliance Time

This update is optional and there is not a recommended compliance time.

E. Approval

This information notice contains no modification information that revises the approved configuration and therefore does not require governmental or other regulatory agency approval.

F. Manpower

Action	Estimated time (in minutes)
Download and install the Stratus ES/ESG Update Tool and embedded hardware update file	3
Wire the transponder for the embedded hardware update	5
Upload update file onto Stratus ES/ESG	3
Verify update was correctly installed	2
Update logbook for compliance to this information notice	5
Total elapsed time to perform information notice procedures	18

G. Weight Change

None

H. Electrical Load Change

None

2. Material Information

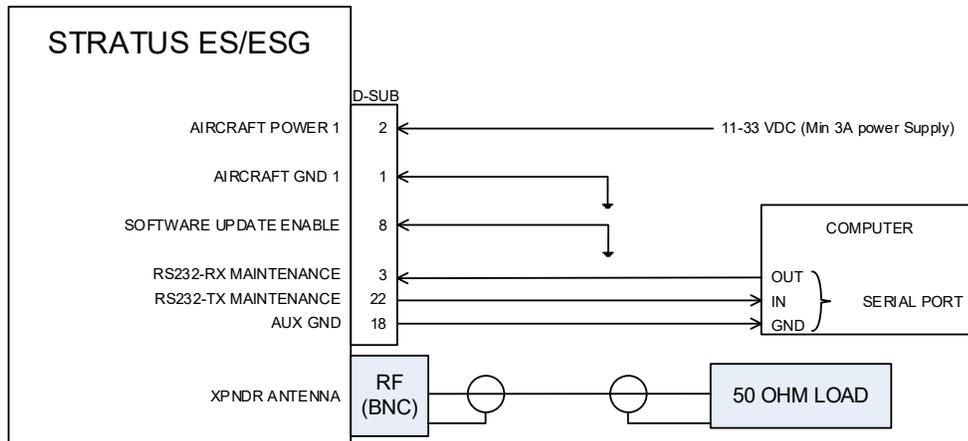
A. Materials Required

Appareo Part Number	Material Description	Note
n/a	Portable computer with Windows operating system	Used to download the Stratus ES/ESG Update Tool and software update file.
501010-000137	Stratus ES/ESG Software Update Tool desktop software	Used to apply the software update. Available for download from the Appareo Dealer Portal.
501010-000138	Stratus ESG software update	Available for download from the Appareo Dealer Portal.
n/a	3 amp power supply	Used to apply the software update to Stratus ES/ESG.
n/a	D-sub wiring harness	Used to connect Stratus ES/ESG to the portable computer.
n/a	Serial to USB adapter (optional)	Used to connect Stratus ES/ESG to the portable computer.

3. Accomplishment Instructions

To perform the embedded hardware update, complete the following steps:

1. Use the following diagram to wire the transponder for the update.



NOTES:

SOME DETAIL IS REMOVED FOR CLARITY
 1 UNLESS OTHERWISE SPECIFIED, ALL WIRING TO BE DONE WITH 22 AWG WIRING

2. Plug the serial port connector into the computer. A serial to USB adapter may be required. If the adapter requires you to install drivers, install them.
3. Power on Stratus ES/ESG. It will enter into software update mode.

NOTE: The screen will be black, but the keypad will illuminate.

4. Apply the embedded hardware update.
 - a. Download the .esg update file and the Stratus ES/ESG Update Tool (if you haven't already).
 - i. **Dealers:** Log in to the Appareo Dealer Portal, then navigate to appareo.com/dealer-portal/service-bulletins.
 - Experimental pilots:** Navigate to stratusbyappareo.com/resources and click **Stratus ES/ESG Service Bulletins** under Other Resources.
 - ii. Download the Stratus ES/ESG Update Tool and the .esg update file for your transponder model. When prompted, install the file by following the on-screen prompts.
 - b. Open the Stratus ES/ESG Update Tool.
 - c. Click the box below "Update File" and navigate to the .esg update file that was downloaded in Step 4.a.

- d. Use the "Port" drop-down menu to select the computer port that is connected to Stratus ES/ESG.
 - e. Click **Update**. A pop-up box will appear when the update begins and completes.
5. Verify that the software update has applied correctly.
- a. Remove the grounding pin (pin 8).
 - b. Turn off Stratus ES/ESG and enter into configuration mode (while holding the **FUNC** key, press and release the **PWR** key).
 - c. Press **FUNC** or the arrow keys to advance to the software versions diagnostic screens. Verify that the most recent programmed configuration shown in the table below appears.

Description	Part Number	Revision	CRC
Embedded Hardware (FPGA)	501010-000109	R07	0x92A24FE7

NOTE: Do not update the mod level label.

6. Update logbook for compliance to this information notice.