

Stein Stephen

From: RANS Aircraft Tech <[REDACTED]>
Sent: Friday, September 2, 2022 1:24 PM
To: Stein Stephen
Subject: Re: NTSB Case No. WPR22LA149 - Rans S-4 - Absence of right wing securing hardware

[CAUTION] This email originated from outside of the organization. Do not click any links or open attachments unless you recognize the sender and know the content is safe.

You are, no pin , no lift, so you would have instant roll away from the secured wing.

On Fri, Sep 2, 2022 at 12:22 PM Stein Stephen [REDACTED] wrote:

Good morning Randy,

As you know I am investigating an accident involving a Rans S-4 (N3156D) that crashed in Chula Vista, California in April 2022. Fortunately there were no serious or fatal injuries.

We discovered that the right wing strut was not bolted to the right wing attachment clevis, which explains why the airplane entered a rapid right roll immediately after the pilot rotated just prior to the accident. I was hoping to speak with someone in your engineering department to discuss the condition.

I'm reaching to figure out how to properly describe the effects of an unsecured right wing. I know the lift acting on the right wing had to be less than that of the left wing to make it roll right. Am I even on the right track?

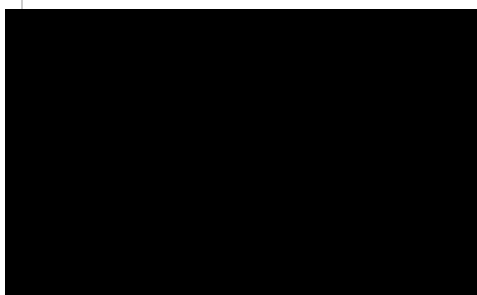
Your help is greatly appreciated! Thanks.



Stephen Stein

Aviation Accident Investigator

National Transportation Safety Board



CONFIDENTIALITY NOTICE - THIS E-MAIL TRANSMISSION MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL, PROPRIETARY, SUBJECT TO COPYRIGHT, AND/OR EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IT IS FOR THE USE OF INTENDED RECIPIENTS ONLY. If you are not an intended recipient of this message, please notify the original sender immediately by forwarding what you received and then delete all copies of the correspondence and attachments from your computer system. Any use, distribution, or disclosure of this message by unintended recipients is not authorized and may be unlawful.

--

Aircraft Builder Support



RANS Designs, Inc.

4600 US HWY 183 Alt

Hays, KS 67601

<http://www.rans.com> | <http://shoprans.com>

Technical Support Disclaimer: Technical advice or information provided by any personnel of RANS Designs Inc. in any form is to be considered reference advice or information and may require further validation by the builder, client, or end user. RANS Designs Inc. will not be held responsible for any loss or damage as a result of our advice or information supplied in any form.