

U.S. Department of Transportation, Docket Operations M-30, West Building Ground Floor, Room W12-140 1200 New Jersey Avenue SE Washington, DC 20590

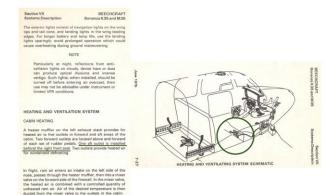
RE: Docket Number FAA-2019-0853 Product Identifier 2019-CE036-AD

November 7, 2019

## Good day:

AD 2019-21-08 is a textbook example of airworthiness and regulation done right—the type club and its maintenance experts collectively find a problem, we bring our concerns to the FAA and the manufacturer, the type club creates and promotes a recommended inspection so that the issue is addressed by aircraft owners even before time permits rulemaking to occur, we share results with FAA and together limit the focus based on the actual data that emerge from that voluntary inspection program, and FAA acts on our recommendations to ensure safety across the entire fleet. Thank you to the FAA and especially the engineers and management of the Wichita Aircraft Certification Office for working cooperatively with ABS Air Safety Foundation to achieve a speedy yet measured response to this serious airworthiness condition.

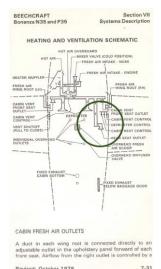
ABS Air Safety Foundation is concerned, however, that some models of Bonanza, specifically the K35, M35, N35 and P35, were added to the Final Rule when they do not share the design characteristic that data have shown to be causal to the airworthiness concern. Specifically, all data supports that the primary contributor to right aileron turnbuckle corrosion is condensation from the aft cabin heat duct where it travels through the rear carry-through and over the aileron turnbuckle. The extended aft cabin heat duct was not installed in K35, M35, N35 or P35 models, and was a design change effective with the S35 Bonanza. See figures 1, 2 and 3.



## (left) Figure 1

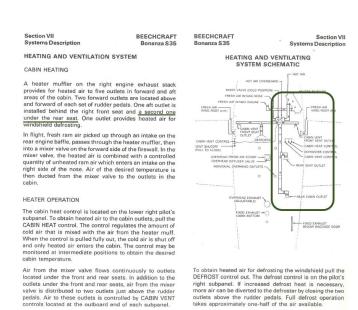
Excerpt from the Beech Pilot's Operating Handbook for K35 and M35 Bonanzas. The heater system is described as having only one aft outlet behind the right front seat. The POH illustration confirms this single aft outlet on the back side of the forward spar carry-through. The K35 and M35 do not have the extended heater duct that travels over the right aileron cable

and turnbuckle, so the K35 and M35 are not affected by the issue addressed in AD 2019-21-08.



## (right) Figure 2

Excerpt from the Beech Pilot's Operating Handbook for N35 and P35 Bonanzas. Although it is presented differently from the earlier models, the POH illustration confirms the N35 and P35 also have only a single aft outlet on the back side of the forward spar carry-through. The N35 and P35 do not have the extended heater duct that travels over the right aileron cable and turnbuckle, so these models are also not affected by the issue addressed in AD 2019-21-08.



April 1981

April 1981

## (left) Figure 3

By contrast, S35 and later Bonanzas have the extended aft cabin heat duct that travels directly over the aileron control cable turnbuckle before going through the rear carry-through section. This excerpt from the Beech Pilot's Operating Handbook for S35 Bonanzas reflects this design change by specifically noting a second cabin heater outlet under the rear seat, and a revised diagram clearly identifying the extended cabin heat duct and second rear cabin outlet that were not present in K35, M35. N35 or P35 models.

To prevent owners of K35, M35, N35 and P35 Bonanzas from being required to complete this inspection that addresses an issue that does not apply to these types, the ABS Air Safety Foundation requests that FAA revise and reissue the NPRM and Final Rule AD to remove these models from the list of affected aircraft before the November 22, 2019 effective date.

Respectfully

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Thomas P. Turner Executive Director ABS Air Safety Foundation

Momes / Jun

cc: Ann Johnson, Program Manager, COS, Wichita ACO Alan Levanduski, Aerospace Engineer, Wichita ACO