



AIRWORTHINESS BULLETIN

AWB 81-003 Issue 1 – 17 May 2018

Best Practices Guide for Maintaining Exhaust System Turbocharger to Tailpipe V-band Couplings / Clamps

1. Effectivity

Direct Population - Turbocharged reciprocating engine-powered aircraft with V-band couplings and clamps used at the turbocharger exhaust exit to exhaust tailpipe interface.

Indirect Population - Any reciprocating engine-powered aircraft with V-band couplings and clamps used in the exhaust system.

2. Purpose

The linked Best Practices Guide (BPG) was prompted by continued failures of turbocharger exhaust to tailpipe V-band coupling/clamps and presents the “best practices” necessary to ensure aircraft with turbocharged reciprocating engines fitted with turbocharger to tailpipe V-band coupling/clamps, remain in their original type design configuration.

It also provides an effective means to manage risks associated with the use of V-band coupling/clamps in turbocharged engine applications. The Guide includes recommended life-limits for particular types of V-band couplings and includes useful maintenance tips and hints for inspecting these areas. A list of definitions for what are considered “Unsatisfactory Conditions” when inspecting these areas is also provided in the guide.

The BPG was developed by an international working group consisting of key stakeholders with input from affected owners, operators and maintainers.

3. Recommendations

Link to BPG for Maintaining Exhaust System Turbocharger to Tailpipe V-band Couplings/Clamps:

https://www.faa.gov/aircraft/air_cert/design_approvals/small_airplane_s/cos/aging_aircraft/media/maintaining_exhaust_system_best_practices.pdf

4. References

Additional airworthiness instructions and advisory material are found at;

[FAA SAIB CE-18-07](#) issued Dec 14th 2017

[FAA AD 2018-06-11](#) effective May 3rd 2018 and applicable to Beechcraft Bonanza series aircraft.



5. Enquiries

Enquiries with regard to the content of this Airworthiness Bulletin should be made via the direct link email address:

AirworthinessBulletin@casa.gov.au

or in writing, to:

Airworthiness and Engineering Branch
National Operations and Standards Division
Civil Aviation Safety Authority
GPO Box 2005, Canberra, ACT, 2601