



**VAN'S AIRCRAFT**  
TOTAL PERFORMANCE

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## SERVICE BULLETIN 19-03-22

**Date Released:** May 21, 2019

**Date Effective:** May 21, 2019

**Subject:** Cracking of the EX-00017 Cylinder #2 Exhaust

**Affected Models:** RV-12 with 912 ULS engines

**Affected Serial Numbers:** All RV-12 model aircraft (RV-12iS is not affected)

**Required Action:** Inspect the EX-00017 Cylinder #2 exhaust tube for cracks as described in this document. If cracks are found, replace the EX-00017 with an EX-00017-1.

**Time of Compliance:** Inspect before further flight

- If no cracks are detected, install a Carbon Monoxide (CO) detector compatible with aviation use and re-inspect every 25 flight hours until the EX-00017 is replaced with the EX-00017-1.
- If cracks are detected, replace the EX-00017 with EX-00017-1.

**Supercedes Notice:** N/A

**Labor Required / SLSA Warranty Allowance:** 1.5 Hours

**Level of Certification:** LSA Repairman Maintenance, A&P (not applicable to E-LSA)

### Synopsis:

*Note that depending on when the RV-12 firewall-forward kit was produced, there are three possible designs for the Cylinder #2 Exhaust Tube. Only one of those designs (EX-00017) is affected by the service bulletin. Inspection is required in order to determine which specific part is installed on an individual aircraft.*

Data from the field suggests that some EX-00017 Cylinder #2 Exhaust Tubes are prone to fatigue cracking. Complying with this service bulletin will ensure aircraft equipped with the affected parts are furnished with a sufficiently durable part, equivalent to aircraft equipped with newer parts.

**Materials Required:**

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

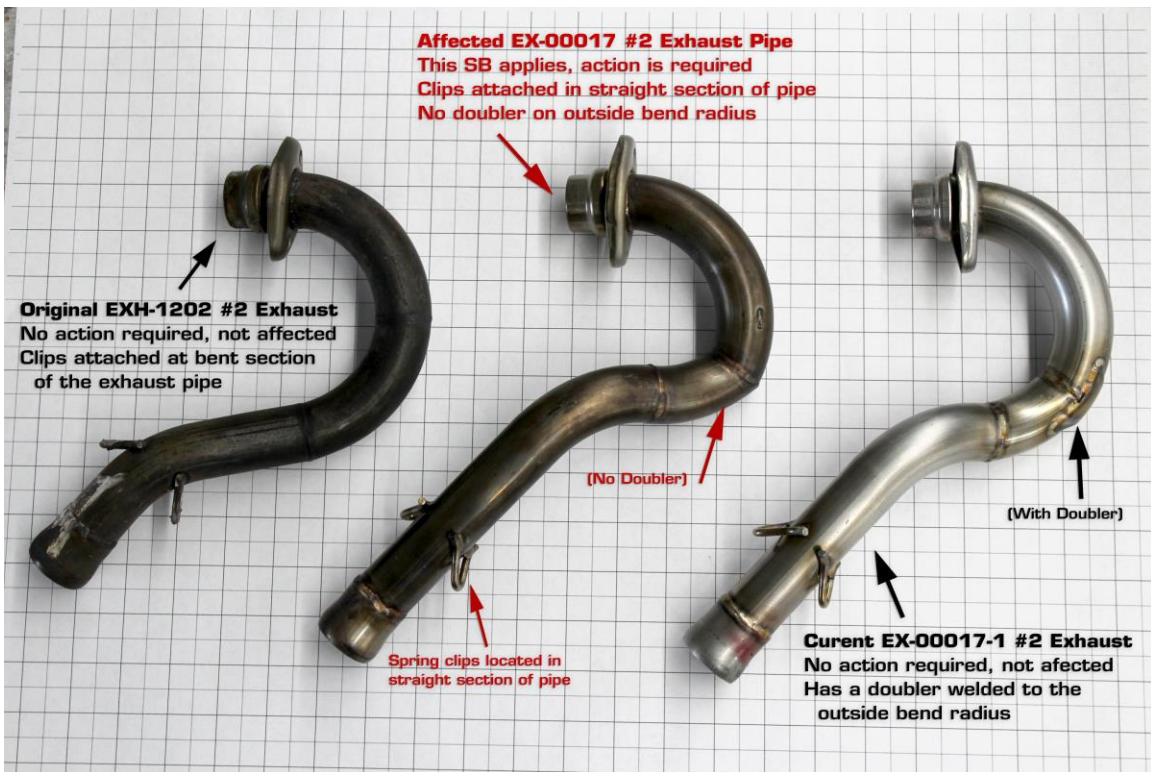
- a. Purchase a new part from Van's Aircraft: Part No. EX-00017-1
- b. 13MM socket
- c. Locking Pliers
- d. Safety Wire
- e. RTV Silicone
- f. High-Temp Anti Seize compound

**Method of Compliance:**

Step 1: Remove the cowl.

Step 2: Inspect the cylinder #2 exhaust to determine which part number is installed. See Figure 1.

- If an EXH-1202 or EX-00017-1 is installed, proceed to Step 8.
- If an EX-00017 is installed, proceed to the next step.



**Figure 1: Cylinder #2 Exhaust Variants**

Step 3: Remove the EX-00017. See the RV-12 Maintenance Manual Section 14.

Step 4: Loosen the remaining exhaust tubes.

Step 5: Install the EX-00017-1. See the RV-12 KAI Section 48 and RV-12 Maintenance Manual Section 14.

Step 6: Adjust the muffler side-to-side position and torque the exhaust stud nuts. See RV-12 KAI Section 48 and RV-12 Maintenance Manual Section 14.

Step 7: Install the cowl.

Step 8: Make a logbook entry indicating compliance with SB 19-03-22.

Place a copy of this notification in the back of the maintenance manual for your aircraft. Note the addition of this notification to the bottom of the Maintenance Manual table of contents.