



# SERVICE No. 534 BULLETIN

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

"Modification DOA EA-1 Approved"

January 24, 1977

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Subject: Turbine Tailpipe Coupling Replacement

Models Affected:

Serial Numbers Affected:

PA-31P Pressurized Navajo..... 31P-1 to 31P-7730003 Inclusive

Compliance Time: At the next programmed Inspection Event, not to exceed the next fifty (50) hours of operation.

Purpose: A recent field report has been received describing failure of the turbine outlet to turbine tailpipe coupling, resulting in separation of the tailpipe from the turbine outlet. This condition could allow hot exhaust gases to escape into the engine compartment, with possible damage to cowls and adjacent powerplant system components.

This service bulletin provides material and instructions to replace the existing turbine tailpipe coupling with a new coupling, redesigned to provide a better method of clamping the mating surfaces of the turbine outlet and tailpipe, and to exhibit increased resistance to heat/vibration induced wear in this area.

Instructions: Refer to attached sketch/instruction sheet.

Material Required: Two (2) per aircraft Turbine Tailpipe Coupling, Piper Part No. 556 053 (mfr. # NH1000897-50).

Availability of Parts: Your Piper Field Service Facility.

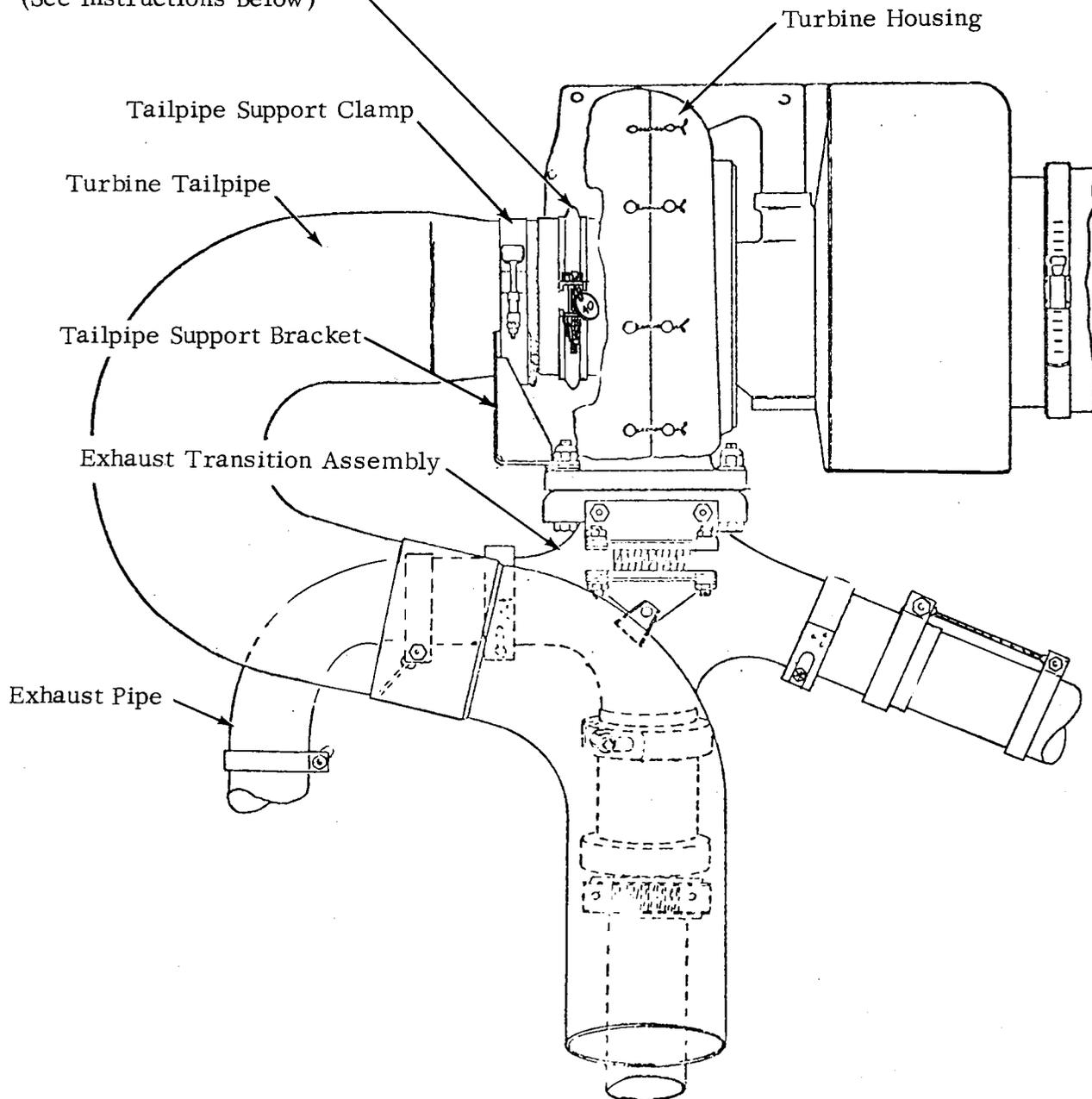
Effectivity Date: This service bulletin is effective upon receipt.

Summary: Please contact your Piper Field Service Facility to make arrangements for compliance with this service release in accordance with the provisions of Compliance Time, above. Reimbursement for material cost (see Material Required, above) is available through your Piper Field Service Facility in accordance with Piper Field Service Facility material allowance credit application procedures, for a period of time not to exceed twelve (12) months from the bulletin issue date.

### NOTE

This Service Bulletin supersedes that part of Piper Service Bulletin No. 492 (dated March 30, 1976) specifying installation of "new Turbine Tailpipe Coupling, Piper Part No. 555 834".

New Turbine Tailpipe Coupling - P/N 556 053  
(See Instructions Below)



#### INSTRUCTIONS - Turbine Tailpipe Coupling Replacement

1. Remove engine cowling from both engines to gain access to the turbine tailpipe couplings.
2. Remove tailpipe support clamp from both engines.
3. Remove existing couplings and install new couplings P/N 556 053 as follows:
  - a. Install coupling over end of tailpipe flange, spreading clamp a minimum amount. Do not remove retaining wire from coupling.
  - b. Fit tailpipe flange to turbine flange, making certain flange faces are butted together with no gap.
  - c. Position tailpipe for clearance with exhaust pipe. Slide coupling over flanges, position and tighten. Torque to 40 inch-pounds.
4. Position existing tailpipe support clamp around tailpipe and support bracket. Deflect upper end of bracket approx. 1/8 inch away from turbine housing and tighten clamp so as to preload the tailpipe flange against the turbine flange. Torque clamp nut to 25-35 in. lbs.
5. Reinstall engine cowling and make proper logbook entry of coupling replacement.