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SB TMG 651-1008 P1

SERVICE BULLETIN

PRIORITY 1 - SAFETY

Service Bulletin No. / Date: SB TMG 651-1008 P1, Initial Issue / May 25, 2018

Subject: Rework of the engine mount

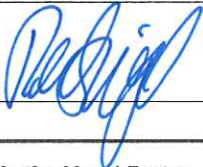
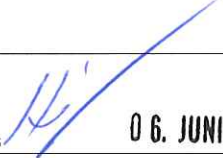
Type affected: Piper PA-28-181 ARCHER III with TAE 125-02-114 installation

Models affected: PA-28-181 with engine mount serial number S/N 0011 only
(P/N 40-7120-H0006 04)

Classification: Category P1 – SAFETY

Time of Compliance: At the next maintenance action.

Reason: Incorrect position of the borehole on the right engine mount plate.

Checked 25. MAI 2018 S. Reckziegel, CVE 	Approved  M. Heinrich, Office of Airworthiness 06. JUNI 2018
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Replaces Service Bulletin No. / Date: -

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Correction:

1. Preparation

- Disconnect the main battery in accordance with AMM-40-02.
- Remove the cowling.
- Remove the intercooler intake hose (turbocharger to intercooler) on intercooler side. See also AMM-40-02, Chapter 71.40.
- Remove the intercooler hose leading to the intake manifold.
- Remove the hose leading to backup batteries from the air scoop.
- Disconnect the ground cable (rear right rubber mount) from the intercooler.
- Remove the intercooler with the air scoop from the mounting bracket (4 mounting points).
- Detach the fuel supply line from the intercooler bracket.
- Lift the engine (refer to RM-02-02, Chapter 72-00.02).
- Remove the intercooler bracket from the engine and the rear right engine mounting.
- Remove the rear right shock mount (refer to RM-02-02, Chapter 71-20.02).

2. Rework of engine mount plate

- Drill a new borehole with a diameter of 11 mm in a centre distance of 12 mm to the existing one (in flight direction). For details see figure 2. If the material between the 2 boreholes is less than 1.3 mm make an elongated hole according to figure 3.

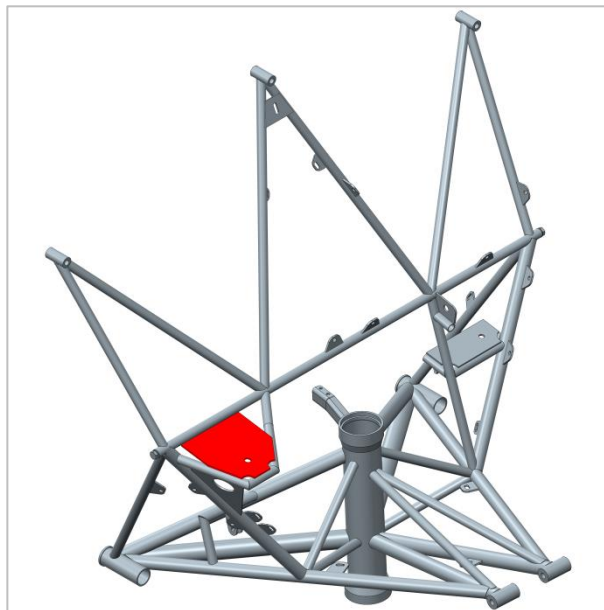


Figure 1: Affected plate

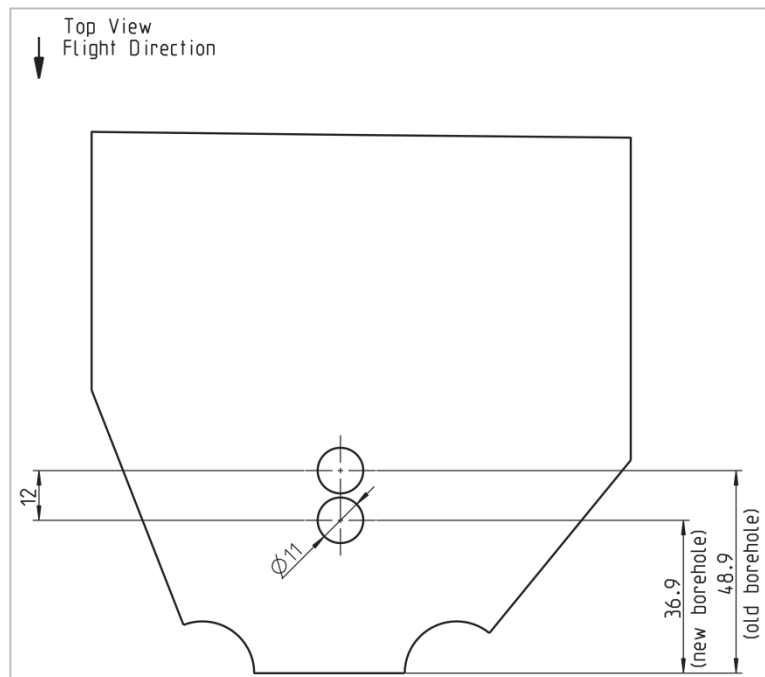


Figure 2: Dimensions for rework

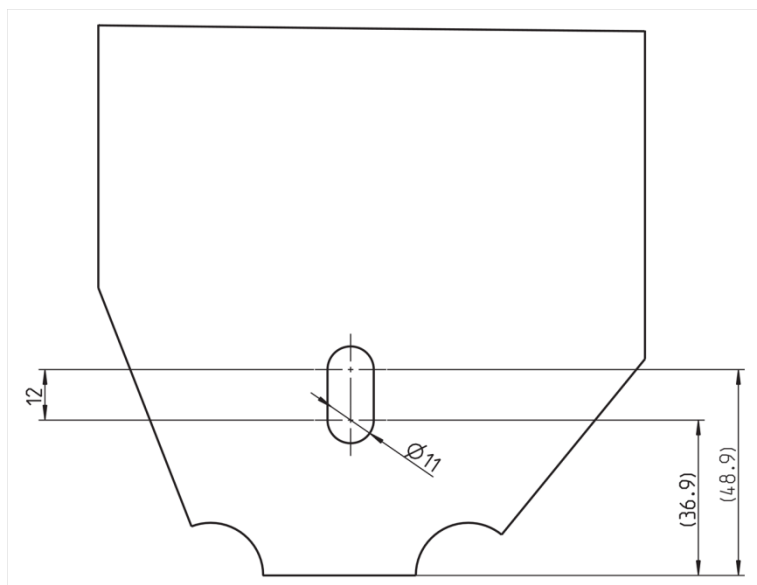


Figure 3: Dimensions for rework if necessary

- Protect the bare engine mount structure with base coat and finishing coat or use touch up paint.
 - Base coat: NV-0000-02034 01
 - Finishing coat: NV-0000-00005 01 (RAL7035)
or
 - Touch up: NV-0000-00008 01 (RAL7035)
- Remove the paint at the bonding point from the bottom side of the plate as shown in figure 4.

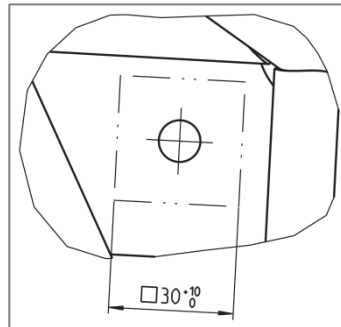


Figure 4: Bonding point preparation

3. Installation of the rear right shock mount

- Mount the shock mount (refer to RM-02-02, Chapter 71-20.02).
- Use a new screw NM-0000-00044 01.
- For tightening torque values refer to RM-02-02.

4. Installation of the intercooler

- Mount the bracket, fuel supply line, intercooler and ground cable in reverse order. Refer to AMM-40-02, chapter 71.40.
- Reattach the intercooler as well as air scoop hoses. For tightening torques see table 1 and table 2.
- Replace all used self-locking nuts by new ones (1x NM-0000-00176 01; 5x NM-0000-00181 01)
- Protect all ground connections with bonding lacquer (NV-0000-01892 01).

5. Engine test run

- Connect the main battery in accordance with AMM-40-02.
- Perform an engine test run in accordance with OM-02-02, Annex 4.
- Recheck all hose clamps and fasteners
- Install the cowling.



Clamp Size	Nm
8-14 bis 11-17	2.5-3.5
13-20 bis 22-32	3-4
26-38 bis 68-85	4-4.5

Table 1: Tightening torque for ABA clamps Nova 9mm S20

Clamp Size	Nm
15-24 bis 26-38	4-5
32-44 bis 277-307	5-6

Table 2: Tightening torque for ABA clamps 12mm S20 und S40

Remarks: -

Approval: The technical information contained in this document has been approved under the authority of EASA Design Organisation Approval No. EASA.21J.010.