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SB TMG 601-1008 P1

SERVICE BULLETIN PRIORITY 1 - SAFETY

Service Bulletin No. / Date:	SB TMG 601-1008 P1, Initial Issue / January 20, 2016
Subject:	Turbocharger hose replacement
Type affected:	All Cessna C172 (Reims F172) with TAE 125-02-99 and TAE 125-02-114
Models affected:	A/C with TAE 125-02 engine and installed V22 turbocharger
Classification:	Category P1 – SAFETY
Time of Compliance:	With the next maintenance inspection, not later than the 900h inspection.
Reason:	Possible failure of the hose during flight and consequent partial loss of power

Checked	Approved
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Action:					0000-0081001 should be lifetime of <u>900 flight hours</u> .	
Correction:	 <u>Check the installed turbocharger hose:</u> Check if hose NM-0000-0081001 is installed. Note: NM-0000-0081001 is a blue hose. If installed, check the TSN of NM-0000-0081001 and replace the 					
	hose i. -	a.w. the following TSN < 900 flight		\rightarrow	not later than the 900h	
	-	TSN > 900 flight	hours	\rightarrow	inspection with the next maintenance inspection	
	(

2. Remove the turbocharger hose:

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- Make sure that the engine is cold before starting work.
- Loosen the four hose clamps attached to NM-0000-0081001.
- If necessary, remove the turbocharger clamp i.a.w. the TMG C172 Supplement AMM.

NM-0000-0081001

- Remove the turbocharger hose incl. hose clamps and heat protection sheet.
- CAUTION: When opening the turbocharger system, pay special attention to prevent contamination.

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3. Installation of the turbocharger hose (NK-0000-0009701)

Parts:

lt	Item Part Number		Description 1	Description 2	Qty.
1		40-7520-S0003 01	Conversion set		1
	1.1	NK-0000-00097 01	Air hose	Vena SIL HT/NMX, Ø50, red	1
	1.2	NM-0000-00170 01	Hose clamp	ABA 50-65x12-W1	4

- ♦ Note: If not already done, also carry out the SB TMG 601-1006, Turbocharger Clamp.
- If removed, install the turbo pipe and fix via turbocharger clamp. Align the turbo pipe to the intercooler port and secure the turbocharger clamp.
- Shorten the air hose (item 1.1) as required.
- Attach the air hose to the turbocharger pipe and to the intercooler port.
- Secure the hose with two hose clamps (item 1.2) on each side. Fasten also the heat protection sheet.
- ▲ <u>WARNING:</u> It is not permitted to reuse the original hose clamps.
- Align the heat protection sheet toward the exhaust manifold.
- Check if the turbocharger clamp can be moved easily.
- ♦ Note: Tension at the turbocharger clamp or misalignment of piping can lead to deformation or damage.

4. Engine Test Run:

EASA.21J.010.

• Perform an engine test run in accordance with OM 02-02.

Remarks:NK-0000-0009701 shows better temperature resistance than NM-0000-
0081001. Hence, the likelihood of a failure of the hose, which can result in
partial loss of engine power, is reduced.Approval:The technical information contained in this document has been approved
under the authority of EASA Design Organisation Approval No.

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