

CHAPTER

78

EXHAUST

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EFFECTIVITY: All

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GENERAL

The exhaust gases are led from the engine cylinders through heat resistant pipes to exhaust silencer with heat exchangers and further on outboard.

EFFECTIVITY: All

78-00-00

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ENGINE EXHAUST SYSTEM

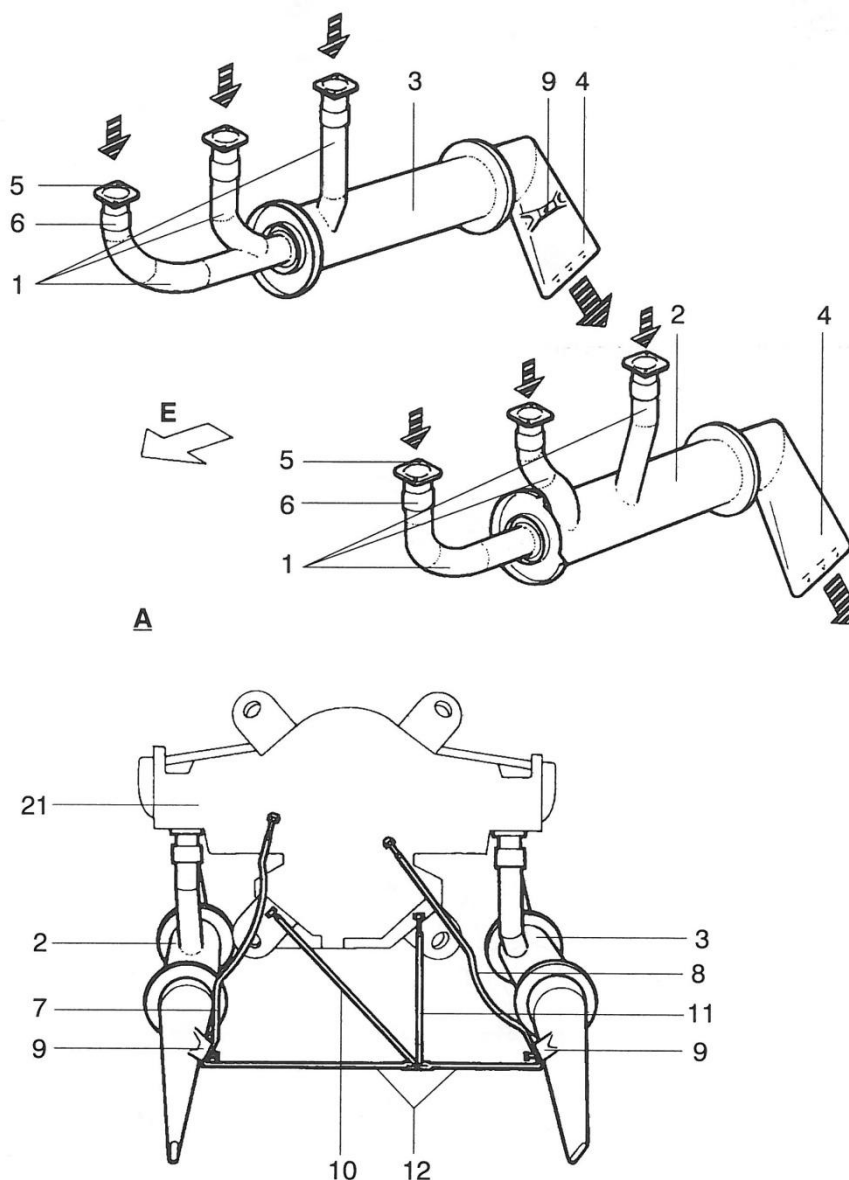
DESCRIPTION AND OPERATION

The exhaust gases are led from the engine cylinders through exhaust collectors (Fig. 78-1, item 1) to exhaust silencers (2, 3) and through the exhausts (4) under the airplane outboard.

The flanges of exhaust collectors (5) are fixed to the cylinders by bolts. The flanges of exhaust collectors (5) are joined to exhaust collectors (1) by sleeves (6).

The upper braces (7, 8) are joined to the engine (21) and to the holders (9) upon exhaust. Bottom braces (10, 11) are joined to the engine (21) and to the cross bar (12). The cross bar (12) is joined to the holders (9) upon the exhaust.

The exhaust silencers are provided with heat exchangers warming the air for cockpit (section 21-40-00) and carburetor (only for Z 143 L airplane) heating (section 75-10-00).



A ... joining the braces of engine exhaust system (view in direction of flight)
E ... flight direction

- 1 ... exhaust collectors
- 2 ... left exhaust silencer
- 3 ... right exhaust silencer
- 4 ... exhausts
- 5 ... flange of exhaust collectors
- 6 ... sleeves
- 7 ... upper left brace
- 8 ... upper right brace
- 9 ... holders

- 10 ... lower left brace
- 11 ... lower right brace
- 12 ... cross bar (left, right)

For information only:
21 ... engine

Fig. 78-1 Engine exhaust system

EFFECTIVITY: All

78-10-00

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MAINTENANCE

REMOVAL / INSTALLATION

REMOVAL AND INSTALLATION OF EXHAUST SILENCER

Procedure for removal/installation of exhaust silencer is issued in section 72-10-00 (REMOVAL / INSTALLATION).

APPROVED REPAIRS

REPAIR OF ENGINE EXHAUST SYSTEM

Fault	Remedy
1) The flanges of exhaust collectors (Fig. 78-1, item 5) upon the cylinders are untaught	Remove the exhaust collectors with silencers from the engine and machine the deformed flanges to be level.
2) Burnt through exhaust collectors and/or exhaust silencer.	Replace burnt through parts.
3) Cracks.	Weld cracks with TIG method (section 53-10-00 APPROVED REPAIRS). Grind off the cracks in welds before welding.

EFFECTIVITY: All

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