

SERVICE



LETTER

Service Letter No. 414

November 27, 1963
(Issued as of December 26, 1963)

TO: Distributors, Dealers, Certified Service Centers and Owners
SUBJECT: Modification of Exhaust Stack, Right Side
MODELS AFFECTED: PA-24 "250" Comanches, Serial Numbers 24-103 to 24-3557 incl.
COMPLIANCE DATE: At Owner's Discretion

We have had reports from the field advising that cracks have been observed in the forward end of the right exhaust stack under the stainless steel shroud. These cracks have occurred only on the PA-24 "250" Comanches which are included in the group of serial numbers listed above. See Sketch "A."

Since a visual inspection of the stack under the shroud is difficult to accomplish, a modification of the stainless steel shroud has been made to permit a visual inspection of this area. This modification consists of cutting away a section of the stainless steel shroud and replacing the exhaust stack shroud assembly at the rear of the stack. See Sketch "B."

Several types of exhaust stacks are in use on the subject aircraft and each will require the appropriate exhaust stack shroud assembly. There are, therefore, two kits available and it will be necessary to determine which kit shall be ordered when making this modification:

<u>PART NUMBER</u>	<u>NOMENCLATURE</u>	<u>AIRCRAFT APPLICATION BY SERIAL NUMBER</u>
*756 777	Exhaust Stack Shroud Kit	24-103 to 24-3380 inclusive
756 778	Exhaust Stack Shroud Kit	24-3381 to 24-3557 inclusive

*NOTE: Providing the original exhaust stack has been replaced, to assure ordering the proper kit, the distance from the front of the stainless steel shroud and the front of the exhaust pipe to the Number 5 Cylinder must be measured. See Sketch "B." Stacks measuring 1-7/8" at the above points will require shroud kit assembly number 756 777 and stacks with a 4-1/4" dimension will require kit number 756 778.

(over)

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Replacement stacks required as a result of this letter will be provided per the following prorated schedule:

<u>TIME ON PLANE</u>	<u>FACTORY RESPONSIBILITY</u>
Less than 175 hours or 9 months	100%
Between 175 and 200 hours or 9 and 12 months	75%
Between 200 and 300 hours or 12 and 18 months	50%
Between 300 and 400 hours or 18 and 24 months	25%
Over 400 hours or 24 months	0%

Existing field stocks of exhaust stacks, Piper part numbers 21664-03, 21664-19 and 23537-02, should be reworked in accordance with this letter.

The exhaust stack which will be supplied from the factory for the PA-24 "250" Comanche airplane from date of this letter will be part number 24543-00 and it will, of course, include the new type shroud (the one welded to the exhaust stack) and also will include the aluminum carburetor heat shrouds.

Kit Number 756 777 is available at a suggested list price of \$23.08 and Kit Number 756 778 at \$22.00.

This letter is your authorization to return shrouds part numbers 21678-06, 22393-00 and 21678-03 for appropriate credit if you so desire.

Very truly yours,

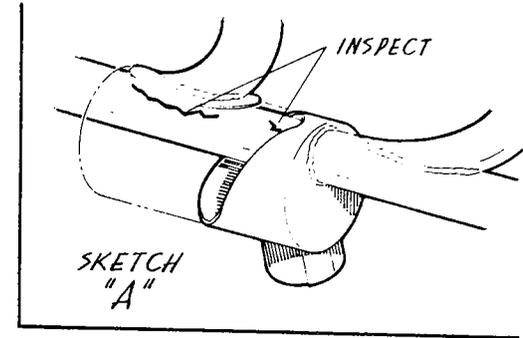
PIPER AIRCRAFT CORPORATION


Wes Holmes
Service Manager

WH:dd

CUT OFF ELBOW
AS SHOWN FOR SERIAL
NOS 24-2299 AND UP
WHERE VERTICAL INLET
IS REQ.

SCREW AN526-632.R6
FORM EDGE OF CUTOUT AS REQ.



BOLT AN3-3A
CLAMP 24474-00
WASHER AN935-10
NUT AN315-3R

EXHAUST STACK P/N 23537-02,
SHROUD P/N 756 778 REQ.

EXHAUST STACK P/N 21664-03,
SHROUD P/N 756 777 REQ.

№ 5
EXHAUST
TUBE

WASHER AN960-6
NUT MS 20364-632C

CUT AS SHOWN
USE TEMPLATE #1

SKETCH "B"

CUT AS SHOWN
USE TEMPLATE #2

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