



# SERVICE LETTER

No. 546A

Piper Aircraft Corporation  
(Supersedes Service Letter No. 546)

Lock Haven, Pennsylvania, U.S.A.  
March 10, 1970

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Reason for Revision: Roll Pin part number change (reference Material Required, below. NOTE: Destroy all copies of Service Letter No. 546.

Subject: Nose Gear Push-Pull Rod Assembly

Models Affected: PA-24-180-250 and 400 Comanche

Serial Numbers Affected: PA-24-180-250, Serial Nos. 24-1 to 24-3614 incl.  
PA-24-400, Serial Nos. 26-1 to 26-4 incl.

Compliance Time: Recommended at the next 100 hour inspection.

Purpose: To inspect the above referenced aircraft nose gear push-pull rod assembly, Piper part number 21109-00 and install a roll pin at each end of the subject rod assembly to supplement the weld.

NOTE: All part number 21109-00 nose gear push-pull rod assemblies purchased from the factory subsequent to December 31, 1964, are not affected by this publication.

Instructions:

1. It will be necessary to reinforce the subject rod assembly by installing a roll pin near each end of the rod; refer to sketch on reverse side for roll pin installation instructions.
2. If inspection reveals any slippage of the bushing within the rod, the subject rod assembly must be replaced.

Material Required: Two (2) Piper part number 757 352 roll pins, if applicable; suggested unit list price \$ .02C.

Availability of Parts: Piper Dealer

Material Allowance: Not applicable.

Labor Allowance: Not applicable.

Material/Labor Allowance Termination Date: Not applicable.

(over)

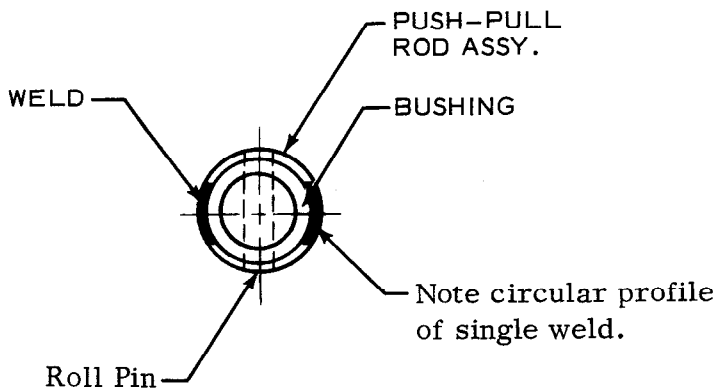
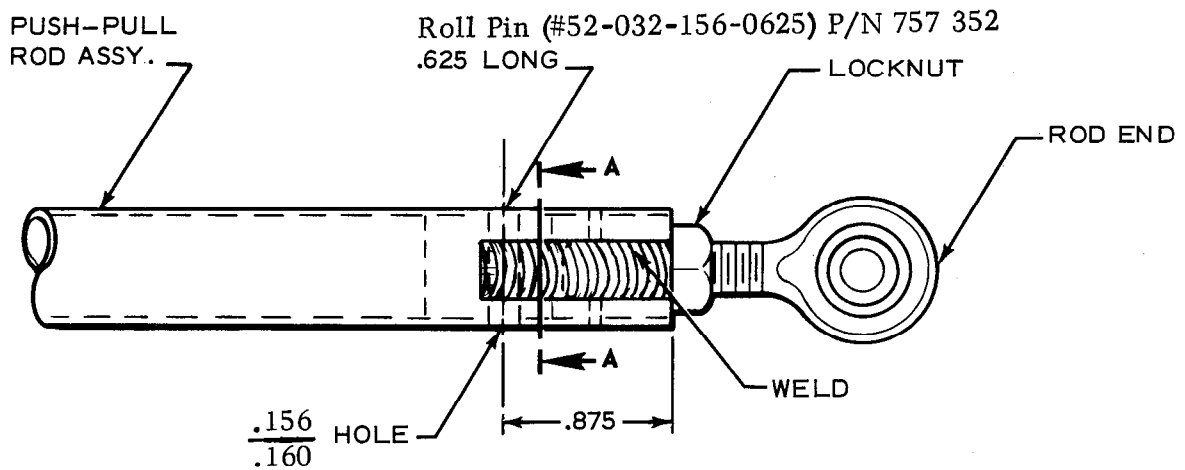
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Disposition of Parts in Stock:

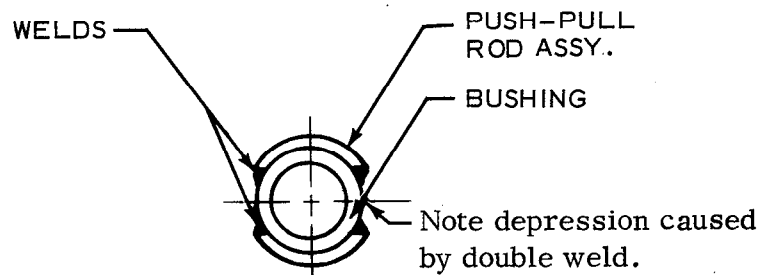
<u>Part Number</u>	<u>Nomenclature</u>	<u>Code</u>
21109-00	Rod-Nose Gear Push-Pull	Modify "old" style (purchased from the factory prior to December 31, 1964)
21109-00	Nose Gear Push-Pull Rod Assemblies per Instructions No. 1; reference attached sketch to determine difference between "old" and "new" rod assemblies.	

Disposition of Replaced Parts:

<u>Part Number</u>	<u>Nomenclature</u>	<u>Quantity per Aircraft</u>	<u>Code</u>
21109-00	Rod-Nose Gear Push-Pull	1 each	C



**SECTION A-A**  
OLD ASSY.



**SECTION A-A**  
NEW ASSY.

NO MODIFICATION REQUIRED

SKETCH "A"

Note: If any doubt exists as to the type of weld (old or new) on the subject rod assembly, roll pins should be installed.

## PUSH - PULL ROD ASSEMBLY MODIFICATION:

- a. Remove the access cover over the emergency gear extension mechanism to gain access to one end of the subject rod assembly.
- b. Measure .875 of an inch from each end of the rod assembly as shown in Sketch A.
- c. Drill a  $\frac{.156}{.160}$  inch hole through the rod and bushing. A six inch drill bit is recommended.

## NOTE

Drilled hole must be perpendicular to the welds. It is necessary to maintain the .875 inch dimension and the hole through the center of the rod assembly as shown in Sketch A.

- d. Insert roll pin, .625 inch long into the hole drilled in the rod assembly. Using 3/4" plastic type electricians tape, wrap rod assembly directly over the roll pin. Two turns are recommended. This tape will prevent moisture from entering roll pin center.
- e. Replace the access cover over the emergency gear extender.
- f. Repeat steps b. thru d. at the opposite end of the rod assembly in the nose gear wheel well.