

# SERVICE No. 485 BULLETIN

"DOA EA-1 Approved"

January 27, 1976 S

Subject: Rerouting of Rudder Control Cables.

Models Affected: Serial Numbers Affected:

PA-18-150 Super Cub

18-7309016 to 18-7609001 Inclusive

NOTE:

This release only affects those aircraft with optional Metal Fuselage Bottom Panels.

Compliance Time: As soon as practicable, not to exceed the next twenty-five (25) hours of operation.

Purpose: Reports from the field indicate that the left and right rudder control cables were misrouted inboard of the vertical frame tubes in the optional Metal Fuselage Bottom Panels which allows the possibility of cable contact with the tubes. This condition can cause premature wear, fraying, and possible parting of the cable resulting in loss of rudder control.

This release provides instructions and material to reroute the rudder control cables to prevent cable contact with the adjacent fuselage frame tubes.

- Instructions:
1. Refer to attached sketch/instruction sheet.
  2. Inspect Rudder Control Cables and adjacent vertical fuselage frame tubes to determine cable/frame tube wear:
    - a. If indications of cable wear (fraying and/or parting of the strands) are evident, replace cable(s).
    - b. If tube is worn through (has a hole in it), install the reinforcement kit. If no hole exists, the tube may be painted and used as is.
    - c. If no indications of cable or tube wear are evident, or if steps a. and b. above have been completed, reroute cables in accordance with the attached sketch/instruction sheet.

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Instructions (continued):

3. Make appropriate log book entry indicating compliance with this service bulletin.

Material Required:

1. Two (2) each per aircraft Reinforcement, Piper part number 60863-03.
2. Rudder Control Cable(s), Piper part numbers 10865-00 or 10865-05 (stainless steel), if required per Instructions No. 2. a., above.
3. Reinforcement Sleeve Assembly, Piper part number 15855-02 and (two each) Clamp, Piper part number 554 778, if required per Instructions No. 2. b., above.

Availability of Parts:

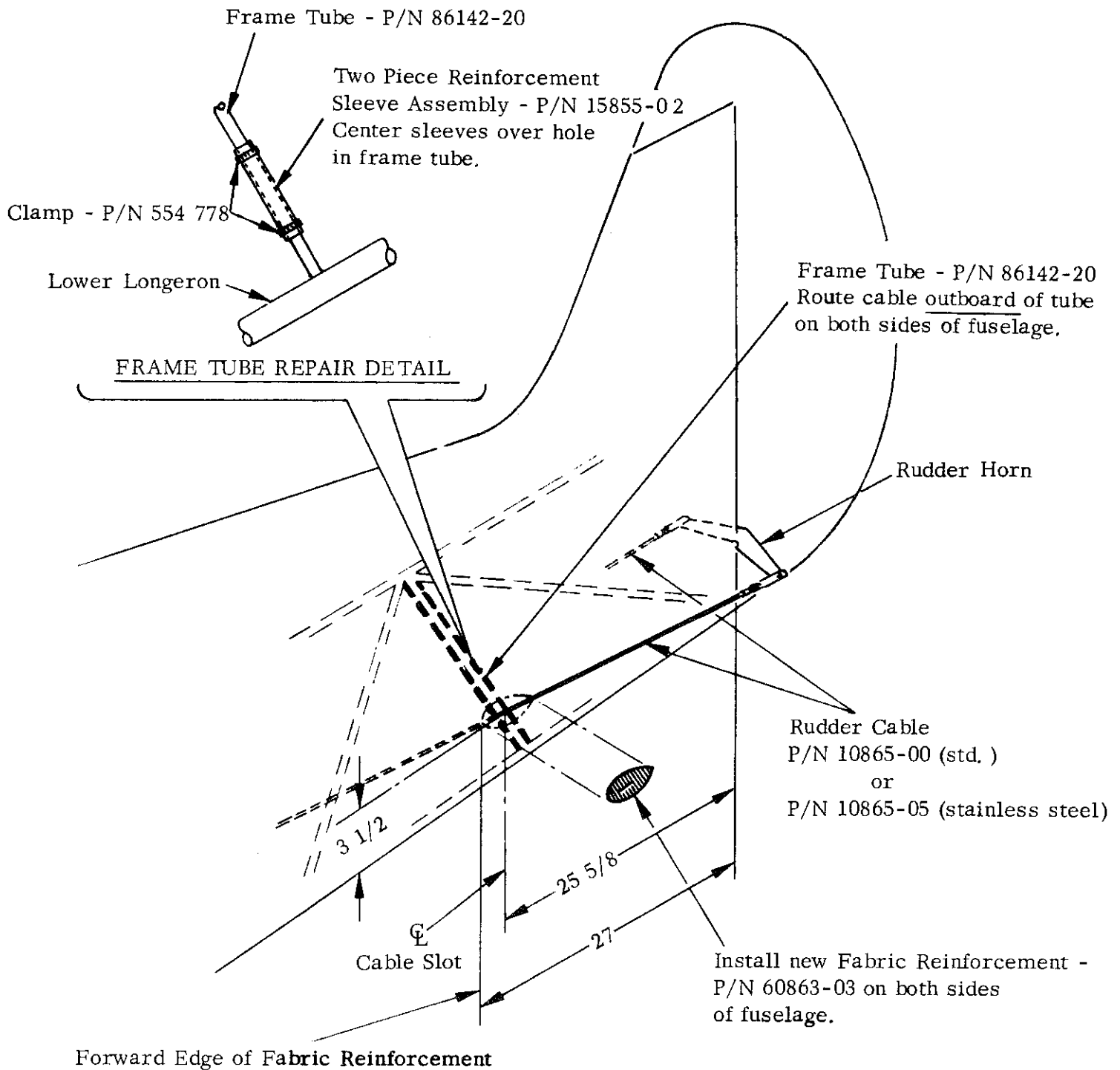
Your Piper field service facility.

Effectivity Date:

This service bulletin is effective upon receipt.

Summary:

Please contact your Piper field service facility to make arrangements for compliance with the provisions of this service release in accordance with Compliance Time, above. The material specified in Material Required, above to be replaced as a result of this service release is available at no charge through your Piper field service facility for a period of time not to exceed twelve (12) months from the issue date of this service release.



### INSTRUCTIONS

1. Remove left and right rudder control cables from rudder horn at lower end of rudder post.
2. Working thru access holes in side of fuselage, pull cables back thru fabric into interior of fuselage.
3. Locate and install new fabric reinforcement P/N 60863-03 in new location on both sides of fuselage. Open fabric at reinforcement slot.
4. Reroute cables outboard of P/N 86142-20 frame tubes and out thru the slot in the new reinforcement. (Replace cable(s) if indications of wear are evident.)
5. Attach cables to rudder horn and safety.
6. Make standard fabric repair at original reinforcement location.
7. If rudder cable(s) has worn through the frame tube(s), install reinforcement sleeve assembly P/N 15855-02 as shown in repair detail above.