

VENDOR SERVICE PUBLICATION

TO: ☐ All Piper Distributors
☒ All Piper CORPAC's
☒ Affected Aircraft Owners/Operators
☐ All of the above

SUBJECT:

KFC 300 Yaw Bridle Cable Clamps in Piper PA-31T Cheyenne Aircraft; King Radio Installation Bulletin No. 129, dated August 20, 1978 (Attached).

Models Affected:

PA-31T Cheyenne

Serial Numbers Affected:

31T-7820002 through 31T-7820082
equipped with the KFC 300 System.

Purpose: To provide distribution of the attached Service Publication (identified in SUBJECT, above) to Piper Field Service Facilities and, if applicable, to affected Piper owners/operators.

Detailed instructions relative to compliance action are specified on the attached Service Publication; any additional/supplemental data, if necessary, is contained in the following "Special Instructions" section.

Special Instructions:

The replacement of KFC 300 Yaw Bridle Clamps is described in detail on the attached copy of King Radio Installation Bulletin No. 129.

Contact your Piper Field Service Facility to make appropriate arrangements.

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INSTALLATION BULLETIN

BULLETIN NO. 129 ALERT

APPLICABLE TO: KFC 300 Flight Control System
Piper Cheyenne PA-31T

SUBJECT: KFC 300 Yaw Bridle Cable Clamps in Piper Cheyenne PA-31T Aircraft

We have determined there is a problem with ALL GOLD COLORED YAW BRIDLE CABLE CLAMPS, KPN 047-3922-01, used in the KFC 300 system for the Piper Cheyenne, PA-31T serial number 31T-7820082 and below. The bridle cable clamps are too large for the cables used. These cable clamps allow slippage of the bridle cables causing unsatisfactory autopilot performance.

It is MANDATORY that ALL PIPER CHEYENNES PA-31T, SERIAL NUMBER 31T-7820082 AND BELOW, equipped with the KFC 300 System, have the yaw bridle cable clamps, King Part Number 047-3922-01, REPLACED. To aid in identification, all cable clamps, KPN 047-3922-01, are GOLD in color. The new King Part Number 047-4976-01 clamps are blue in color. All GOLD YAW BRIDLE CABLE CLAMPS in the Cheyenne MUST BE REPLACED.

The Roll, Pitch, and Pitch trim will continue to use gold cable clamps as the dimensions are correct. Only the Yaw Cable Clamps will be blue.

RUDDER BRIDLE CABLE INSTALLATION AND ADJUSTMENT

1. Neutralize the aircraft rudder system by positioning the rudder pedals in a parallel position to one another.
2. Remove the rudder bridle cable clamps, King Part Number 047-3922-01 which are Gold in color.
3. Install the bridle cable and the new cable clamps, King Part Number 047-4976-01, which are Blue in color. Torque each of the two (2) bridle cable clamp bolts to 55 \pm 5 inch-pounds. After the cable clamp bolts have been tightened to specification, insert a .002 inch feeler gauge on both sides of the bridle cable clamp. The feeler gauge should be able to be easily inserted along both sides of the clamps.
4. Adjust both bridle cable tensions to be between zero (0) and three (3) pounds less than the primary control cable tensions. The primary control cable tension should be checked forward of the bridle cable clamps when setting the bridle cable tensions. After proper adjustment, the tension in the bridle

DATE August 30, 1978

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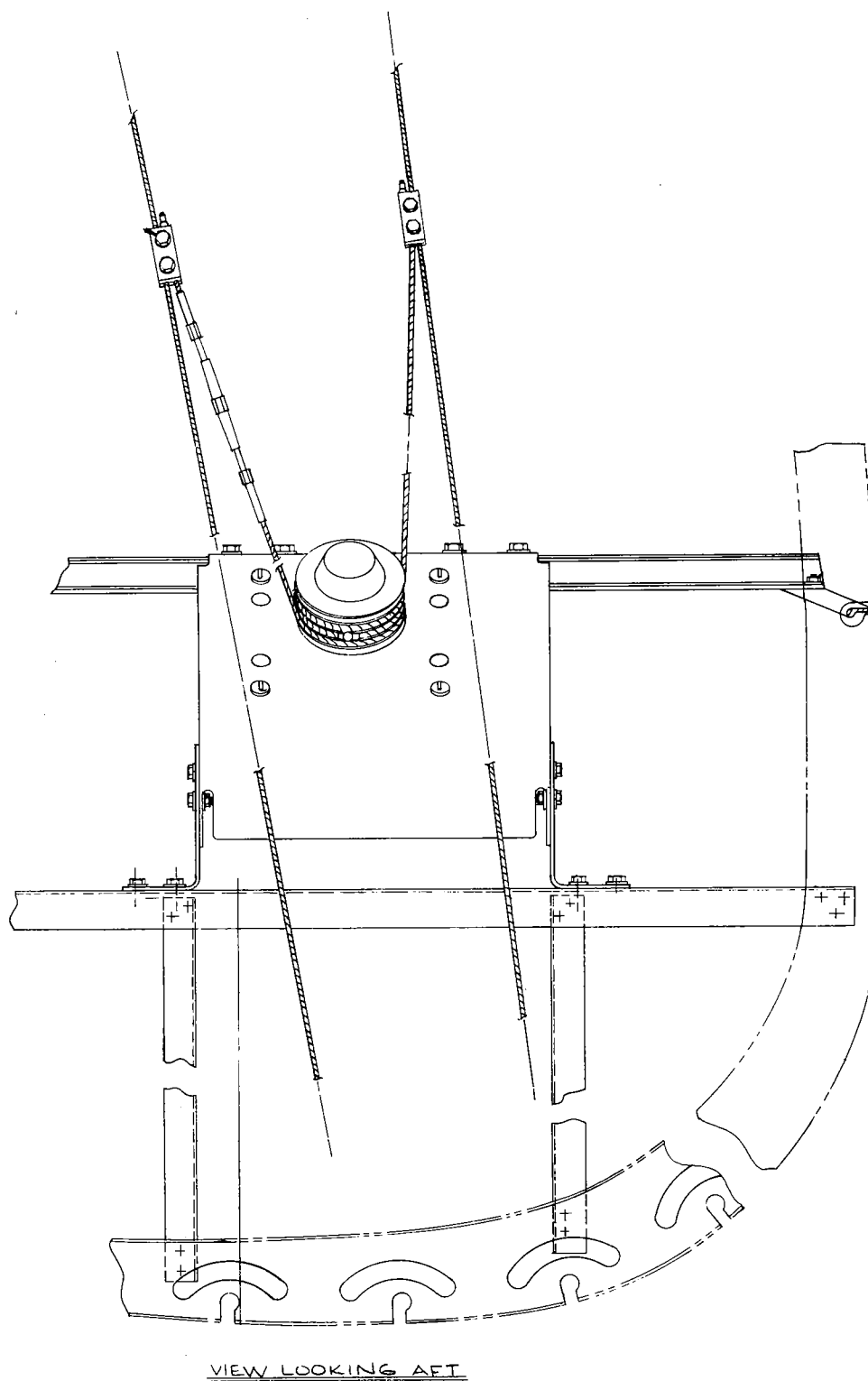
cable will be approximately equal to the tension remaining in the main cable forward of the bridle cable clamps.

King Radio Corporation will pay a reasonable charge for replacement of the Yaw Bridle Cable Clamps on each Piper Cheyenne PA-31T equipped with a King KFC 300 System. All that is required is the submission of the following (3) items to our Warranty Department:

1. A copy of your Shop Order containing only the labor charge for replacement of the KFC-300 Yaw Bridle Clamp and serial number of the Piper Cheyenne PA-31T. Only one warranty claim per aircraft may be submitted.
2. A photo copy of the aircraft log book entry indicating that replacement of the Yaw Bridle Clamps has been performed in accordance with the instructions in this bulletin. This entry must be dated and signed by an AI inspector or other appropriately licensed person.
3. A properly completed warranty claim.



INSTALLATION BULLETIN



YAW (RUDDER) BRIDLE CABLE ASSEMBLY

August 30, 1978

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