



# SERVICE BULLETIN

No. 550

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

"Modification DOA EA-1 Approved"

March 29, 1977

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Subject:

Engine Control Cable Inspection

Models Affected:

Serial Numbers Affected:

Affected Control

PA-23-250 (6 place) Aztec "F" ....	27-7654190 to 27-7754077 Incl. ....	*M; R : T; L & R
PA-31 & PA-31-325 Navajo .....	31-7612096 to 31-7612105 Incl. ....	*M & T; L & R
	31-7612107, 31-7612109,	
	31-7612110 and 31-7712003.	
PA-31-350 Navajo Chieftain .....	31-7652145, 31-7652147, 31-7652148,	*M & T; R
	31-7652153, 31-7652154, 31-7652157,	
	31-7652159, 31-7652162 to	
	31-7652176 Incl., and 31-7752002.	

\*M = Mixture; T = Throttle; L = Left (Engine); R = Right (Engine)

Compliance Time: At the next regularly scheduled inspection interval (100 Hour, Annual, Programmed inspection event, whichever applies), not to exceed the next fifty (50) hours of operation.

Purpose: During installation of the engine throttle and mixture control cables, in some cases, the cable Bundy Sleeve would crack or break where it enters the cable housing. Investigation revealed that the Bundy Sleeve on certain groups of cables received from the manufacturer had been improperly heat treated. This condition could result in the Bundy Sleeve becoming detached from the cable housing and thereby limiting throttle and/or mixture control cable travel.

This Service Bulletin provides instructions and material to inspect affected cables for the above described condition, and to replace cables as required.

Instructions: (Refer to attached illustration.)

1. Disconnect both ends of the affected control cable (specified above as "Affected Control").
2. Slide the protective rubber boot away from the sleeve.
3. Pull cable out to its most extreme travel.
4. Flex Bundy Sleeve back and forth while rotating sleeve between fingers.

CAUTION

Do not exert too great a side load on cable as this could damage the cable.

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Instructions: (Continued)

5. Visually inspect the Bundy Sleeve in the area of the beaded fitting for cracks or other damage; also, inspect the end of the housing for any damage.
6. If no sleeve cracks are present and there is no damage to the housing, reinstall rubber boot and reconnect cable; insure proper cable/control function.
7. If the Bundy Sleeve is cracked or broken and/or the housing is damaged, replace applicable cable (see Material Required, below).
8. Enter service bulletin compliance data in aircraft log book.

Material Required:

<u>Model</u>	<u>Part Number</u>	<u>Nomenclature</u>	<u>Qty. per A/C</u>
PA-23-250 (6 place) Aztec "F"	30205-02	Control Cable-Mixture	One; Rt. Engine Only
	30205-02	Control Cable-Throttle	One; Rt. Engine Only
	30205-02	Control Cable-Throttle	One; Left Engine Only
PA-31/31-325 Navajo	24894-07	Control Cable-Mixture	One; Rt. Engine Only
PA-31/31-325 Navajo	24894-07	Control Cable-Throttle	One; Rt. Engine Only
PA-31/31-325 Navajo	24894-05	Control Cable-Mixture	One; Left Engine Only
PA-31/31-325 Navajo	24894-05	Control Cable-Throttle	One; Left Engine Only
PA-31-350 Chieftain	24894-02	Control Cable-Mixture	One; Rt. Engine Only
PA-31-350 Chieftain	24894-02	Control Cable-Throttle	One; Rt. Engine Only

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 this Service Release in accordance with the provisions of Compliance Time, above. Reimbursement for material and labor costs related to this Service Release will be made available through your Piper Field Service Facility as follows:

<u>A/C Model</u>	<u>Inspection</u>	<u>Cable Replacement (PER CABLE)</u>
PA-23-250 (6 place)	One (1) Hour	Two (2) hours; (max. 3 cables);
PA-31/31-325	Two & one half (2 1/2) Hours	One (1) hour; (max. 4 cables);
PA-31-350	One & one half (1 1/2) Hours	One (1) hour; (max. 2 cables);

Inspection and (if required) replacement material/labor allowance is offered through your Piper Field Service Facility for a period of time not to exceed twelve (12) months from this Service Release issue date in accordance with Piper Field Service Facility material and labor allowance credit application procedure.

Inspect Bundy Tube and Beaded Fitting for Cracks or Other Damage.

