

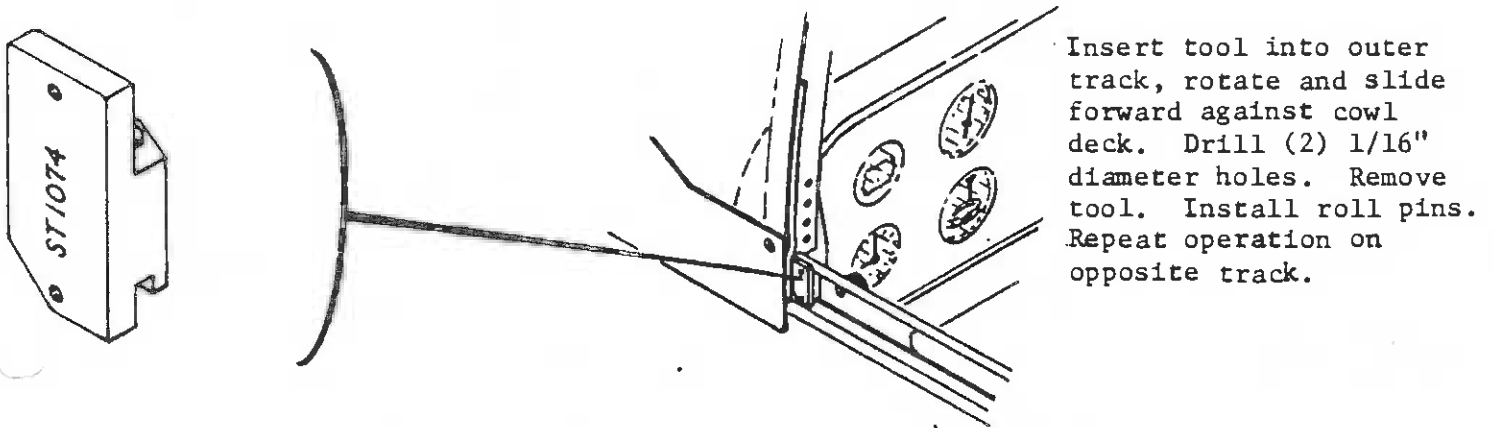
DATE: April 30, 1970
TO: Owners and Operators of Yankee Aircraft
SUBJECT: Canopy Improvements
MODELS AFFECTED: All Model AA-1
TIME OF COMPLIANCE: Any time at owner's discretion

Item 1 - Canopy Tracks

Field experience has shown that after extended operation, the canopy on the Yankee may become difficult to open and close. The following suggestions and improvements are listed to help you maintain satisfactory freedom of operation of the canopy.

1. DO NOT use the canopy as a hand hold during entry to and exit from the aircraft as bending of the inner tracks can result.
2. The inner canopy tracks must be perfectly straight. If the tracks are bent, they should be straightened or replaced.
3. The sliding surfaces of the canopy inner tracks and the teflon glide material in the canopy outer tracks must be kept clean and lightly lubricated. Smoother operation may be achieved by cleaning the sliding surfaces with isopropyl alcohol and a small brush and then injecting a small amount of silicone grease or spray lubricant into the sliding surfaces. Production aircraft canopy tracks are now being lubricated with E-Z-Free lubricant which is available in 6 or 16 oz. spray cans from your American Aviation Corporation dealer or from XIM Products, Inc., 1169 Bassett Road, Westlake, Ohio 44145.
4. If external cleaning and lubricating does not satisfactorily eliminate canopy sticking or binding, the canopy plexiglas and bows should be removed from the tracks and the tracks slid completely out of the airplane. All sliding surfaces should then be carefully cleaned with isopropyl alcohol or lacquer thinner and relubricated with a very thin film of lubricant. If the teflon glide material is galled or severely worn, it should be replaced with new material which is available under Part No. 102269-1 (left-hand top), 102269-2 (left-hand and right-hand bottom) and 102269-5 (right-hand top).

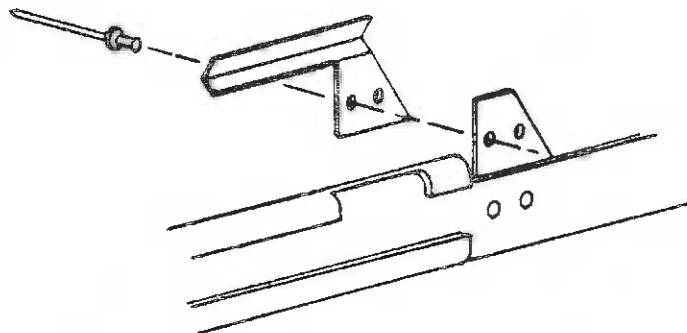
5. A Canopy Track Sizing Tool, Part No. ST-1064, is available which may be used to resize the teflon glide material when the tracks are removed for cleaning or when the teflon is replaced in the field. This tool is simply inserted into the outer track in place of the sliding inner track and forced through the entire length of the outer track to force the teflon tightly into the retaining channels.
6. Aircraft delivered from the factory after April 21, 1970 have the teflon glide material secured in the outer tracks with a roll pin, Essna Part No. 52-012-062-0500, inserted at the forward end of each channel. Aircraft delivered prior to April 21, 1970 can be modified in the field to incorporate this improvement. A Canopy Track Drill Jig, Part No. ST-1074, is available which may be used to assist in locating and drilling holes for field installation of the roll pins. Use of Tool No. ST-1074 is illustrated below.



Item 2 - Canopy Stops

Production aircraft AAL-0190 and up have extended canopy stops installed to limit the rearward travel of the canopy which results in greater support of the canopy track in the forward canopy bow attach area. Extended stops, Part No. 102371-1 and 102371-2, which are secured in place with Part No. 1601-0410 pop rivets, can be installed on aircraft prior to AAL-0190 as illustrated below.

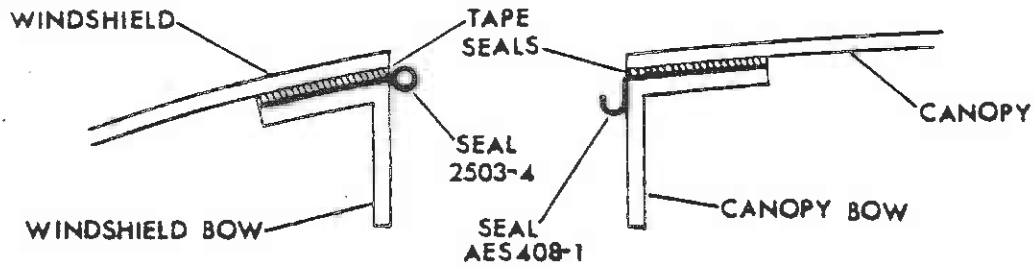
Line up extended stop over existing stop. Drill (2) .136/.139 diameter holes and rivet stop in place. Repeat on opposite track.



NOTE: Installation of Cockpit Vent Accessory Kit No. AK-113 includes installation of extended stops.

Item 3 - Canopy - Windshield Seals

Improved seals at the canopy-windshield junction have been installed on Aircraft AAl-0262 and up and are being supplied for all spares requirements for earlier aircraft. The new windshield seal, Part No. 2503-4, and canopy seal, Part No. AES408-1, are positioned between the plexiglas tape seal and the windshield-canopy bow as illustrated below.

SUMMARY OF PARTS INFORMATION

<u>Number Required Per Aircraft</u>	<u>Part No.</u>	<u>Description</u>	<u>Price Each</u>	<u>Remarks</u>
<u>ITEM 1</u>				
A/R	E-Z-Free (6 oz. spray can)	Lubricant	\$ 1.69 (D)	-
A/R	E-Z-Free (16 oz. spray can)	Lubricant	\$ 3.69 (D)	-
1	102269-1	Runner (LH Top)	\$ 5.72 (E)	-
2	102269-2	Runner (LH & RH Bottom)	\$ 6.74 (E)	-
1	102269-5	Runner (RH Top)	\$ 5.96 (E)	-
A/R	ST-1064	Canopy Track Sizing Tool	\$ 4.17 (B)	-
A/R	ST-1074	Canopy Track Drill Jig	\$10.00 (B)	-
4	52-012-062-0500	Roll Pin	\$.04 (E)	-

<u>Number Required Per Aircraft</u>	<u>Part No.</u>	<u>Description</u>	<u>Price Each</u>	<u>Remarks</u>
<u>ITEM 2</u>				
1	102371-1	Canopy Stop (LH)	\$.50 (H)	-
1	102371-2	Canopy Stop (RH)	\$.50 (H)	-
4	1601-0410	Rivet	\$1.52 per 100 (E)	Sold in packs of 100 only
<u>ITEM 3</u>				
6 ft.	AES408-1	Seal - Canopy	\$.60/ft. (H)	Replaces 102362-1
6 ft.	2503-4	Seal - Windshield	\$.60/ft. (H)	Replaces 102362-2

Please obtain all parts required from your authorized American Aviation Corporation Dealer.

Prices subject to change without notice.

Very truly yours,

AMERICAN AVIATION CORPORATION

Paul H. Seibert

Paul H. Seibert
Customer Service Manager

PHS:vsb

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