

CHAMPION AIRCRAFT CORPORATION
Osceola, Wisconsin

SERVICE LETTER #10

F.A.A. Approved

DATE: March 15, 1962
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TO: All Champion Distributors and Dealers

SUBJECT: Factory approved repair of No. 2-705 control stick socket and No. 1-2383 control stick connection tube on Models 7AC, 7BCM, 7CCM, and 7DC.

REFERENCE: Control System Drawing in Champion Service Manual

Due to normal service, the subject parts may become worn. To correct for this condition, the following repairs may be made.

In all cases the largest hole permissible in the individual piece is noted and in all cases the desirable procedure is to install the next diameter clevis bolt or bushing without using the maximum size permitted. This will allow margin for repeat repairs later on.

TOLERANCES

No. 2-705 Control Stick Socket

The 2-705 stick socket may be reamed to maximum diameter of 3/8" (.375) Provided that the distance from the edge of the hole to the outside edge of the socket casting comes to not less than .18".

No. 1-2383 Control Stick Connection Tube

Holes in this tube may be reamed to a maximum of 3/8" (.375).

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ASSEMBLY

There are many combinations permissible.

- (1) Installing assembly by using the appropriate size clevis bolt and shear nut only. In this case, the hole diameter of both the 2-705 socket and 1-2383 tube must be identical.
- (2) An SAE-1025 steel bushing may be installed in either the socket or the tube or both. When figuring wall thickness of bushing, consideration must be given that the resulting inside diameters must be the same in both the socket and tube.

CAUTION:

1. The minimum clevis bolt diameter permitted to be used in both the 2-705 socket and 1-2393 tube is 1/4" (AN 24-)
2. The clevis bolt must be exactly 1-1/32" in length, and have a grip of 11/16" (-16)
3. Only AN 320 shear nut can be used.
4. Washer must not be used under bolt head or nut.
5. Tighten the AN 320 shear nut finger tight only. Then, safety with cotter pin.