



ALERT SERVICE BULLETIN

CIRCULATE PROMPTLY

PROPELLERS - TRANSFER TUBES - NEW TRANSFER TUBE PART NUMBERS

1. Planning Information

A. Effectivity

<u>Prop. Model</u>	<u>Prop. Part Number</u>	<u>Transfer Tube Part Number</u>
14RF-9	780100-3 thru 780100-9	790202-1, -2, and -3

B. Reason

- (1) Problem. Some titanium nitrided transfer tubes have not been accounted for per Alert Service Bulletin 14RF-9-61-A52.

NOTE: Titanium nitrided transfer tubes can be identified by a gold colored spline.

- (2) Cause. Titanium nitrided transfer tubes have the same part number as acceptable transfer tubes.

NOTE: Acceptable transfer tubes have a grey colored spline.

- (3) Solution. This Alert Service Bulletin will give new part numbers to all transfer tubes that have been inspected and are verified to have grey colored splines. Titanium nitrided transfer tubes (which have gold colored splines) are not acceptable for operation and will no longer be on the approved parts list for the propeller system.

C. Description

Do a visual inspection of all transfer tubes and reidentify each acceptable transfer tube with the instructions in section 2, Accomplishment Instructions. If you find transfer tubes with gold colored splines, return them to Hamilton Standard. Also, return to Hamilton Standard any PCU ballscrew quill that is known or suspected to have operated with a transfer tube with a gold colored spline.

ALERT SERVICE BULLETIN

D. Compliance

All transfer tubes must be inspected, and if acceptable, reidentified with the instructions in section 2, Accomplishment Instructions. Do this Alert Service Bulletin as soon as possible, but no later than 600 hours after receipt of this Alert Service Bulletin.

NOTE: This Alert Service Bulletin can be accomplished at the same time you do the initial inspection required by Alert Service Bulletin 14RF-9-61-A53.

E. Approval

The technical contents of this Alert Service Bulletin have been approved by the FAA.

F. Manpower

Approximately 0.3 man-hours are necessary to inspect and reidentify each transfer tube.

G. Material - Cost and Availability

You can get information regarding the replacement parts that are required to comply with this Alert Service Bulletin by contacting:

United Technologies Corporation
Hamilton Standard Division
Attention: Division Spares
Mail Stop 1-2-BC23
One Hamilton Road
Windsor Locks, CT 06096-1010
Facsimile: 203-654-2093

H. Tooling

None

I. Weight and Balance

None

J. Electrical Load Data

Not affected

ALERT SERVICE BULLETIN

K. Software Accomplishment Summary

Not applicable

L. References

Airworthiness Directive T91-11-51, Dated May 22, 1991
Alert Service Bulletin 14RF-9-61-A49
Alert Service Bulletin 14RF-9-61-A52
Component Maintenance Manual 61-21-06
Maintenance Manual P5186

M. Other Publications Affected

Component Maintenance Manual 61-21-06
Maintenance Manual P5186

N. Family Tree Charts of Modification Relationships

Not applicable

2. Accomplishment Instructions

A. Do a visual inspection of all transfer tube spline ends that are installed in propellers or that exist in inventory as spares (see the attached color photograph).

(1) If you have a transfer tube with a gold colored spline, do step 2.E.

(2) If the transfer tube is acceptable (a grey colored spline), reidentify as follows.

B. Reidentify acceptable transfer tubes.

(1) Vibration peen X's on the existing part number.

(2) Mark the new part number within a 1/4 inch of the X'd part number as follows:

<u>OLD PART NUMBER</u>	<u>NEW PART NUMBER</u>
790202-1	814782-1
790202-2	814782-2
790202-3	814782-3



ALERT SERVICE BULLETIN

- C. Mark the new P-number on the propeller hub in ink after you do this Alert Service Bulletin on installed transfer tubes.

<u>Prop. Part Number</u>	<u>Mod. Number</u>
780100-3	P20
780100-4	P20
780100-5	P19
780100-6	P18
780100-7	P19
780100-8	P15
780100-9	P7

NOTE: If you have records indicating the inspections in Alert Service Bulletin 14RF-9-61-A49, and the inspection in this Alert Service Bulletin verifies that the transfer tube is acceptable, you do not have to reinspect the ballscrew quill now.

- D. Make an entry in the propeller log book after you do this Alert Service Bulletin on transfer tubes that are installed in propellers. Record the following information:

DATE OF INSPECTION _____
 NEW TRANSFER TUBE PART NO. _____
 AIRCRAFT TAIL NO. _____
 PCU SERIAL NO. _____
 DATE OF QUILL INSPECTION _____
 - PER TELEGRAPHIC A.D. 91-11-51 _____
 - OTHERWISE _____
 TIME SINCE QUILL INSPECTION _____ FLIGHT HOURS
 TOTAL TIME ON PCU _____ FLIGHT HOURS



ALERT SERVICE BULLETIN

- E. Return all transfer tubes with gold colored splines and all PCU ballscrew quills that are known or suspected to have operated with transfer tubes with gold colored splines to:

Hamilton Standard Support Systems
Customer Service Center
97 Newberry Road
East Windsor, CT 06088
ATTN: Transfer Tube Replacement Program

- (1) Also, notify Hamilton Standard if you locate a transfer tube with a gold colored spline. Send the following information immediately by fax to:

United Technologies Corporation
Hamilton Standard Division
Attention: Manager, Service Engineering
Mail Stop: 1-2-BC23
One Hamilton Road
Windsor Locks, CT 06096-1010
Facsimile: 203-654-2093

- (2) Give this information for each transfer tube with a gold colored spline:

COMPANY _____
DATE GOLD COLORED TUBE LOCATED _____
AIRCRAFT WHERE TUBE WAS INSTALLED _____
TRANSFER TUBE PART NO. _____
TRANSFER TUBE SERIAL NO. _____

- F. Provide the information required on the attached form at the end of this Alert Service Bulletin, titled "Compliance Data Sheet," and fax it to:

United Technologies Corporation
Hamilton Standard Division
Attention: Manager, Service Engineering
Mail Stop: 1-2-BC23
One Hamilton Road
Windsor Locks, CT 06096-1010
Facsimile: 203-654-2093



ALERT SERVICE BULLETIN

3. Material Information

A. Parts Required

NOTE: If you do this Alert Service bulletin at the same time as you do Alert Service Bulletin 14RF-9-61-A53, you only need one kit.

Model No.	Kit No.
A11 14RF	27704

Hamilton Standard Internal Reference Number EC 228767
Hamilton Standard Internal Identification Number 14RF961.A57
Hamilton Standard Reference EMB120



ALERT SERVICE BULLETIN

COMPLIANCE DATA SHEET FOR 14RF-9-61-A57

This information must be reported and sent immediately by fax to:

United Technologies Corporation
Hamilton Standard Division
Attention: Manager, Service Engineering
Mail Stop: 1-2-BC23
One Hamilton Road
Windsor Locks, CT 06096-1010
Facsimile: 203-654-2093

Give this information for each reidentified transfer tube.

COMPANY _____
DATE OF INSPECTION _____
WHERE INSPECTION PERFORMED _____
TOTAL TIME _____ FLIGHT HOURS
TIME SINCE OVERHAUL _____ FLIGHT HOURS
TRANSFER TUBE SERIAL NO. _____
NEW TRANSFER TUBE PART NO. _____
INSTALLED (Check One)
Left Side _____
Right Side _____
Not Installed (Spare Unit) _____
PROPELLER SERIAL NO. _____
AIRCRAFT TAIL NO. _____