T-34 AIRFRAME LIFE EXTENSION CABLE SYSTEM Continued Airworthiness Manual

This report applies to T-34 Spar Corp. Airframe Life Extension Cable systems per STC SA10362SC.

LOG OF REVISIONS

Pages	Revision	Date	Remarks
1-10	NC	06 Apr 10	Initial Release
4,6	Α	14 May 10	Cable tension nut now turn 4½ to 4¾ turns – was 4¼ to 4½. Revised inspection intervals. Add bolt and nut replacement every 10,000 hours.
4,6,7	В	01 July 10 20 Jul 10	Clarify inspection/replacement interval timing Add STC number and clarify logbook entry
6	D	05 Aug 10	Clarify cable retension interval
6	H	10 Aug 10	10 Aug 10 Revise cable retension interval

Revisions

outer margins of the pages. Change bars will be shown only against the immediate prior revisions. document. Changes to data in the previous revisions will be identified by revision bars in the Revisions page under the Remarks section. Extensive changes will not be accompanied by change bars but will be identified on Log of Lettered revisions of this document may be issued periodically. Each revision will cover the entire

Revision Distribution

The latest revision of this document in its entirety will be posted at www.taturbo.com/drawings/

TABLE OF CONTENTS

Subject	Page
Log of Revisions	2
Referenced Instructions for Continued Airworthiness and other Publications	ω
AIRWORTHINESS LIMITATIONS	4
ALEC SYSTEM DESCRIPTION	5
MAINTENANCE PRACTICES	6
Time Limits and Maintenance Checks	6
ALEC REMOVAL AND REINSTALLATION	7
A. Wing Removal	7
B. Wing Installation	7
C. Adjustments – Post Wing Installation	7

Referenced Instructions for Continued Airworthiness and other Publications

The latest revision to the following publications should be used in conjunction with this manual:

Vendor	Manual Title	Part Number
T-34 Spar	Installation Instructions For T-34, T-34A, And T-34B Main	45-6460002
Corporation	Wing Spar Lower Wing Bolt Replacement And Tension Cable	
	Per T-34 Spar Corp. AMOC To AD 2004-25-51	
T-34 Spar	T-34A/B Main Spar Carry-through Rotating Probe, Bolt-hole	TSC 3507
Corporation	Eddy Current Inspection Procedure and Cold Work	
T-34 Spar	T-34A/B Main Spar Carry-through Surface Eddy Current	TSC 3505
Corporation	Inspection Procedure	

AIRWORTHINESS LIMITATIONS

program has been FAA approved. required under paragraphs 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative The Airworthiness Limitations Section is FAA approved and specifies inspection and maintenance

with T-34 Spar Corp. TSC-3505. Every 2900 hours of accumulated flight time: Perform "Surface" eddy current inspection in accordance

with T-34 Spar Corp. TSC-3507. Every 2900 hours of accumulated flight time: Perform "Bolt Hole" eddy current inspection in accordance

repetitive requirement. The lower front spar wing attach bolts and nuts, T-34 Spar Corporation Part Numbers 45-133A and 45-132, are life limited and must be replaced on or before accumulating 10,000 hours of flight time. This a

replacement time. Each subsequent inspection or replacement interval time is referenced from time of last inspection or All inspection interval and replacement times are referenced from initial installation of ALEC system

A. There are no other limiting inspections and/or maintenance items.

FAA Approved

Rev. E 45-1760002 Continued Airworthiness

ALEC SYSTEM DESCRIPTION

installation is to extend the life of the spar carry through structure in order to eliminate the restrictions placed upon stresses at identified critical fastener holes in the center fuselage carry through structure. The results of the cable structures of the Hawker Beechcraft T-34 aircraft, Models 45 (YT-34), A45 (T-34A, B-45), and D45 (Tthe structure by AD 2004-25-51. 34B). The tension cable system is intended to reduce tension loading and to also produce beneficial compression T-34 Spar Corp has developed a tension cable system to be installed in the lower front spar carry through

approximately 10,000 to 12,000 lbs of load carried by the tension cable that would otherwise pass through the front center spar carry through structure. when the airframe experiences a six (6) g "event" the lower spar carry through structure will have carry through structure. The pre-loading is further supplemented during aircraft maneuver loading so that intent of the modification is to lower the peak cyclic maximum tension stress through the front center spar approximately 7,500 pounds of compressive pre-loading to the center spar carry through structure. The bolts for the ALEC cable to pass through. The pre-tensioned ALEC cable is designed to apply fuselage center section carry through structure. These tension bolts have holes through the length of the (new bolt nut combination). These are tension bolts used to attach the lower wing main spars to the Specific modifications to the fuselage wing carry through structure include the replacement of OEM 160-180 ksi carbon steel bolt system (bolt nut combination) with a modified 220 ksi Inconel 718 bolt system

MAINTENANCE PRACTICES

TIME LIMITS AND MAINTENANCE CHECKS

Ev hou hou and ins or of of of of of time		Airframe Group	I) 100 hrs	Interval Snecial
fasteners of the forward and aft webs and high shear fasteners of the forward spar carry through structure Visually inspect the lower belly skins for any signs of loose or missing rivets, deformed or buckling skins or any other signs of failure. Visually inspect all wing bolt bath tub fittings for corrosion, cracks or any other sign of failure and to make sure that the drain holes of the upper bathtub fittings are unobstructed. Inspect the outside fuselage skins above the top wing skin in the area of the forward and aft carry thru structure for missing or loose rivets, deformed or buckling skins or any other signs of failure. Perform "Surface" eddy current inspection in accordance with T-34 Spar Corp. TSC-3505 Perform "Bolt Hole" eddy current inspection in accordance with T-34 Spar Corp. TSC-3507 De-tension the ALEC cable tension nut in one of the bathtub fittings and re-apply 50-in-lbs of torque and then turn the nut 4½ to 4¾ turns in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Alternate this on the right and left side each time this is performed. Reinstall safety wire as outlined in T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Report any cables found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133 bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.	:-	Visually inspect the carry through structure	×	
Visually inspect the lower belly skins for any signs of loose or missing rivets, deformed or buckling skins or any other signs of failure. Visually inspect all wing bolt bath tub fittings for corrosion, cracks or any other sign of failure and to make sure that the drain holes of the upper bathtub fittings are unobstructed. Inspect the outside fuselage skins above the top wing skin in the area of the forward and aft carry thru structure for missing or loose rivets, deformed or buckling skins or any other signs of failure. Perform "Surface" eddy current inspection in accordance with T-34 Spar Corp. TSC-3505 Perform "Bolt Hole" eddy current inspection in accordance with T-34 Spar Corp. TSC-3507 De-tension the ALEC cable tension nut in one of the bathtub fittings and re-apply 50-in-lbs of torque and then turn the nut 4½ to 4¾ turns in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Alternate this on the right and left side each time this is performed. Reinstall safety wire as outlined in T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Report any cables found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.	2.	Visually inspect the forward and aft webs and high shear fasteners of the forward spar carry through structure	×	
signs of failure. Visually inspect all wing bolt bath tub fittings for corrosion, cracks or any other sign of failure and to make sure that the drain holes of the upper bathtub fittings are unobstructed. Inspect the outside fuselage skins above the top wing skin in the area of the forward and aft carry thru structure for missing or loose rivets, deformed or buckling skins or any other signs of failure. Perform "Surface" eddy current inspection in accordance with T-34 Spar Corp. TSC-3505 Perform "Bolt Hole" eddy current inspection in accordance with T-34 Spar Corp. TSC-3507 De-tension the ALEC cable tension nut in one of the bathtub fittings and re-apply 50-in-lbs of torque and then turn the nut 4½ to 4¾ turns in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Alternate this on the right and left side each time this is performed. Reinstall safety wire as outlined in T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Report any cables found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133 A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.	3.	Visually inspect the lower belly skins for any signs of loose or missing rivets, deformed or buckling skins or any other	×	
Visually inspect all wing bolt bath tub fittings for corrosion, cracks or any other sign of failure and to make sure that the drain holes of the upper bathtub fittings are unobstructed. Inspect the outside fuselage skins above the top wing skin in the area of the forward and aft carry thru structure for missing or loose rivets, deformed or buckling skins or any other signs of failure. Perform "Surface" eddy current inspection in accordance with T-34 Spar Corp. TSC-3505 Perform "Bolt Hole" eddy current inspection in accordance with T-34 Spar Corp. TSC-3507 De-tension the ALEC cable tension nut in one of the bathtub fittings and re-apply 50-in-lbs of torque and then turn the nut 4½ to 4¾ turns in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Alternate this on the right and left side each time this is performed. Reinstall safety wire as outlined in T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Report any cables found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133 A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.		signs of failure.		
cracks or any other sign of failure and to make sure that the drain holes of the upper bathtub fittings are unobstructed. Inspect the outside fuselage skins above the top wing skin in the area of the forward and aft carry thru structure for missing or loose rivets, deformed or buckling skins or any other signs of failure. Perform "Surface" eddy current inspection in accordance with T-34 Spar Corp. TSC-3505 Perform "Bolt Hole" eddy current inspection in accordance with T-34 Spar Corp. TSC-3507 De-tension the ALEC cable tension nut in one of the bathtub fittings and re-apply 50-in-lbs of torque and then turn the nut 4½ to 4¾ turns in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Alternate this on the right and left side each time this is performed. Reinstall safety wire as outlined in T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Report any cables found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133 bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.	4.	Visually inspect all wing bolt bath tub fittings for corrosion,		
drain holes of the upper bathtub fittings are unobstructed. Inspect the outside fuselage skins above the top wing skin in the area of the forward and aft carry thru structure for missing or loose rivets, deformed or buckling skins or any other signs of failure. Perform "Surface" eddy current inspection in accordance with T-34 Spar Corp. TSC-3505 Perform "Bolt Hole" eddy current inspection in accordance with T-34 Spar Corp. TSC-3507 De-tension the ALEC cable tension nut in one of the bathtub fittings and re-apply 50-in-lbs of torque and then turn the nut 4½ to 4¾ turns in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Alternate this on the right and left side each time this is performed. Reinstall safety wire as outlined in T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Report any cables found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133 bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.		cracks or any other sign of failure and to make sure that the	×	
Inspect the outside fuselage skins above the top wing skin in the area of the forward and aft carry thru structure for missing or loose rivets, deformed or buckling skins or any other signs of failure. Perform "Surface" eddy current inspection in accordance with T-34 Spar Corp. TSC-3505 Perform "Bolt Hole" eddy current inspection in accordance with T-34 Spar Corp. TSC-3507 De-tension the ALEC cable tension nut in one of the bathtub fittings and re-apply 50-in-lbs of torque and then turn the nut 4½ to 4¾ turns in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Alternate this on the right and left side each time this is performed. Reinstall safety wire as outlined in T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Report any cables found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.		drain holes of the upper bathtub fittings are unobstructed.		
the area of the forward and aft carry thru structure for missing or loose rivets, deformed or buckling skins or any other signs of failure. Perform "Surface" eddy current inspection in accordance with T-34 Spar Corp. TSC-3505 Perform "Bolt Hole" eddy current inspection in accordance with T-34 Spar Corp. TSC-3507 De-tension the ALEC cable tension nut in one of the bathtub fittings and re-apply 50-in-lbs of torque and then turn the nut 4½ to 4¾ turns in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Alternate this on the right and left side each time this is performed. Reinstall safety wire as outlined in T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Report any cables found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.	5.	Inspect the outside fuselage skins above the top wing skin in		
or loose rivets, deformed or buckling skins or any other signs of failure. Perform "Surface" eddy current inspection in accordance with T-34 Spar Corp. TSC-3505 Perform "Bolt Hole" eddy current inspection in accordance with T-34 Spar Corp. TSC-3507 De-tension the ALEC cable tension nut in one of the bathtub fittings and re-apply 50-in-lbs of torque and then turn the nut 4½ to 4¾ turns in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Alternate this on the right and left side each time this is performed. Reinstall safety wire as outlined in T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Report any cables found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.		the area of the forward and aft carry thru structure for missing	<	
of failure. Perform "Surface" eddy current inspection in accordance with T-34 Spar Corp. TSC-3505 Perform "Bolt Hole" eddy current inspection in accordance with T-34 Spar Corp. TSC-3507 De-tension the ALEC cable tension nut in one of the bathtub fittings and re-apply 50-in-lbs of torque and then turn the nut 4½ to 4¾ turns in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Alternate this on the right and left side each time this is performed. Reinstall safety wire as outlined in T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Report any cables found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.		or loose rivets, deformed or buckling skins or any other signs	>	
Perform "Surface" eddy current inspection in accordance with T-34 Spar Corp. TSC-3505 Perform "Bolt Hole" eddy current inspection in accordance with T-34 Spar Corp. TSC-3507 De-tension the ALEC cable tension nut in one of the bathtub fittings and re-apply 50-in-lbs of torque and then turn the nut 4½ to 4¾ turns in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Alternate this on the right and left side each time this is performed. Reinstall safety wire as outlined in T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Report any cables found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.		OI IAIIUITE.		
Perform "Bolt Hole" eddy current inspection in accordance with T-34 Spar Corp. TSC-3507 De-tension the ALEC cable tension nut in one of the bathtub fittings and re-apply 50-in-lbs of torque and then turn the nut 4½ to 4¾ turns in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Alternate this on the right and left side each time this is performed. Reinstall safety wire as outlined in T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Report any cables found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.	6.	Perform "Surface" eddy current inspection in accordance		Every 290
with T-34 Spar Corp. TSC-3507 De-tension the ALEC cable tension nut in one of the bathtub fittings and re-apply 50-in-lbs of torque and then turn the nut 4½ to 4¾ turns in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Alternate this on the right and left side each time this is performed. Reinstall safety wire as outlined in T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Report any cables found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.		with 1-34 Spar Corp. TSC-3505		hours
with T-34 Spar Corp. TSC-3507 De-tension the ALEC cable tension nut in one of the bathtub fittings and re-apply 50-in-lbs of torque and then turn the nut 4½ to 4¾ turns in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Alternate this on the right and left side each time this is performed. Reinstall safety wire as outlined in T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Report any cables found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.	7.	Perform "Bolt Hole" eddy current inspection in accordance		Every 290
De-tension the ALEC cable tension nut in one of the bathtub fittings and re-apply 50-in-lbs of torque and then turn the nut 4½ to 4¾ turns in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Alternate this on the right and left side each time this is performed. Reinstall safety wire as outlined in T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Report any cables found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.		with T-34 Spar Corp. TSC-3507		hours
fittings and re-apply 50-in-lbs of torque and then turn the nut 4½ to 4¾ turns in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Alternate this on the right and left side each time this is performed. Reinstall safety wire as outlined in T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Report any cables found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.	.∞	De-tension the ALEC cable tension nut in one of the bathtub		Every 3 rd
nut 4½ to 4¾ turns in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Alternate this on the right and left side each time this is performed. Reinstall safety wire as outlined in T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Report any cables found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.		fittings and re-apply 50-in-lbs of torque and then turn the		annual
ALEC Installation Instructions, 45-6460002. Alternate this on the right and left side each time this is performed. Reinstall safety wire as outlined in T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Report any cables found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.		nut $4\frac{1}{2}$ to $4\frac{3}{4}$ turns in accordance with T-34 Spar Corp.		inspection,
on the right and left side each time this is performed. Reinstall safety wire as outlined in T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Report any cables found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.		ALEC Installation Instructions, 45-6460002. Alternate this		or 300 hou
install safety wire as outlined in T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. Report any cables found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.		on the right and left side each time this is performed. Re-		of
Installation Instructions, 45-6460002. Report any cables found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.		install safety wire as outlined in T-34 Spar Corp. ALEC		accumulate
found to be loose to T-34 Spar Corp. before de-tensioning of the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.		Installation Instructions, 45-6460002. Report any cables		flight time,
the tension nut. Record which tension nut (right or left) was retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.		found to be loose to T-34 Spar Corp. before de-tensioning of		whichever
retorqued in the aircraft logbook each time ALEC cable is retensioned. Replace 45-133A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.		the tension nut. Record which tension nut (right or left) was		occurs first
retensioned. Replace 45-133A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.		retorqued in the aircraft logbook each time ALEC cable is		
Replace 45-133A bolts and 45-132 nuts. Install new nuts and bolts in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.		retensioned.		
	9.	Replace 45-133A bolts and 45-132 nuts. Install new nuts and		On or befo
		bolts in accordance with T-34 Spar Corp. ALEC Installation		accumulati
hours flight time.		Instructions, 45-6460002.		of 10,000
time.				hours flight
				time.

All service, inspection, and replacement interval times are to be referenced from initial installation of ALEC system. Each subsequent service, inspection, or replacement interval time is referenced from time of last service, inspection, or replacement time.

45-1760002 Continued Airworthiness Rev. E

ALEC REMOVAL AND REINSTALLATION

current inspection and the "Bolt Hole" eddy current inspection. to displacement of ALEC for proper access to the areas of inspection for the "Surface" eddy portions of instructions below for Wing Removal, Wing Installation, and Adjustments also apply the ALEC cable prior to removal of the wing(s) or performance of the inspections. Applicable current inspection and the "Bolt Hole" eddy current inspection listed in this document, detension Under normal operations there is no need to remove the ALEC system or its components. On the occasion that a wing or the wings are removed, or for the performance of the "Surface" eddy

Remove wings in accordance with the appropriate T-34 Maintenance Manual.

A. Wing Removal

- Remove lower forward wing mounting bolt access plates to gain access to the ALEC cable
- 50 Remove safety wire and detension the ALEC cable tension nut.
- Remove the tension nut and collar from the active end.
- 4 Manual. Remainder of steps is the same as those listed in the appropriate T-34 Maintenance
- 5 the wing(s) are reinstalled. The ALEC cable may remain loose inside the lower spar center carry through section until

₽. Wing Installation

- \Box Reinstall the wing as outlined in the appropriate T-34 Maintenance Manual except use the wing attachment hardware of the ALEC system in the front spar lower wing attachments.
- 2) Install and adjust ALEC system in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.

Torque values are located in T-34 Spar Corp. ALEC Installation Instructions, 45-6460002.

0 **Adjustments - Post Wing Installation**

system as long the installation and adjustments have been made in accordance with T-34 Spar Corp. ALEC Installation Instructions, 45-6460002. There are no further adjustments required prior to or after first flight after reinstallation of ALEC