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CUSTOM KIT CK-AG-45

Revision B

Field Conversion of S2R-T34 Aircraft

10,500 Lbs. Maximum Gross Take-Off Weight Increase

Eligibility:

Serial #T34-273 through T34 450 (With or Without DC Suffix)

LEVAN TABIDZE, CERTIFICATION MANAGER

Revision B 07/06/2018

AIRPLANES AFFECTED:

MODEL SERIAL NUMBERS

S2R-T34 T34-273 – T34-450, with or without DC suffix

CUSTOM KIT LIMITATIONS IDENTIFIED BY THRUSH AIRCRAFT, INC.

- Custom Kit CK-AG-45 is limited to aircraft equipped with the PT6A 34AG engine only. No other engine was tested while evaluating this kit.
- Locate the aircraft's data plate and verify that the TC listed is A4SW and not A3SW. A4SW
 aircraft are the only configuration eligible for the CK-AG-45 Custom Kit. The data plate is
 located on the left side of the aircraft aft of the door on the single cockpit and aft of the rear
 door on the dual cockpit.
- Custom Kit CK-AG-45 is limited to aircraft equipped with the Tail Attached Brackets 95266-11, 95267-5 and NAS6207-68 Attach bolt. These parts shall be installed per Service Bulletin SB-AG-45.
- 4. Aircraft equipped with the Hartzell T10282N+4 propeller have had flight testing for kit eligibility. The installer must determine whether this design change is compatible with previously approved modifications.
- 5. Aircraft equipped with the external pitot type engine airinlet 21900-1, -21 or screened fairing panel 21922 have had no flight testing to verify if eligible with this kit. The installer must determine whether this design change is compatible with previously approved modifications.
- 6. Aircraft equipped with vortex generators have had no flight testing to verify if eligible with this kit. The installer must determine whether this design change is compatible with previously approved modifications.
- 7. Aircraft equipped with Micronair Spray System, Standard Spray System, and Calibrator agricultural equipment have had flight testing for kit eligibility. The installer must determine whether this design change is compatible with previously approved modifications.

LOG OF REVISIONS

NOTE: Re-formatting and correction of typographical errors is not considered revision. True revisions are indicated by a dark vertical line at the right margin of thelines.

Rev.	Page	Description of Revision	Ву:
IR	All	New Document Initial Release.	G. Moreland 12/01/2016
A	All	Completely Revised Document without altering technical content.	K. Sheppard 05/09/2018
В	i	Added Note 2 regarding data plate/eligibility. Added to Notes 4 – 7: "The installer must determine whether this design change is compatible with previously approved modifications."	G.Rowland 07/06/2018

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1. PURPOSE AND REASON FOR PUBLICATION

This document provides a list of the parts and installation instructions needed to qualify aircraft for the FAA approved 10,500 pounds maximum gross take-off weight increase.

2. SCOPE/COMPLIANCE

Compliance with the requirements of this document is solely at an aircraft owners' discretion. However, compliance is required to operate at 10,500 pounds.

3. BY WHOM WORK WILL BE ACCOMPLISHED

The work is to be accomplished by an FAA licensed A&P mechanic, or foreign equivalent. The action must be recorded in the airplane log book and signed off by the mechanic. This is a major alteration and requires Form 337 field approval in addition to the log book entry.

4. APPROVAL

4.1 THRUSH AIRCRAFT, INC. APPROVAL

This Custom Kit document is approved by Thrush Aircraft, Inc. Proper execution of these instructions will ensure proper field conversion.

4.2 FAA APPROVAL

The technical content of this custom kit is FAA approved.

5. MAN HOURS

5.1 REMOVAL AND MODIFICATION

The total estimated time required to accomplish this task is 12 hours with 2 mechanics working simultaneously.

6. CUSTOM KIT OVERVIEW

To accomplish this custom kit, owner/operator must:

- Determine tailwheel eligibility and replacement if not eligible
- Install safety padding
- Install Airspeed Indicator
- Install placards
- Update Aileron control system
- Install Control Sticks
- Install Elevator Bellcrank
- Elevator Trim Tab Control Replacement
- Cowling Modification for Starter/Generator Cooling

7. SPECIAL TOOLS

No special tools required.

8. RECOMMENDED DOCUMENTS

- S2R-T34 Single & Dual Cockpit Airplane Flight Manual Supplement Restricted Category Rev. IR
- S2R-T34 Single & Dual Cockpit Airplane Maintenance Manual Rev. 2

NOTE: Verify the latest FAA approved revision of both the Airplane Flight Manual and Airplane Maintenance Manual is on hand.

9. NEW PARTS AND MATERIAL

NOTE: Use letter and numbers with a (*) beside it for ordering information. See page 6 for detailed explanation.

Part Number	Description	Quantity for replacement parts depending on aircraft to be modified				
		[A]* Single Cockpit	[B]* Dual Cockpit/Single Control	[C]* Dual Cockpit/Dual Control		
21436-239	EDGE GUARD	N/A	2	2		
531120001-001	ANGLE	N/A	2	1		
SL213-08-1	NUT CLIP	N/A	6	3		
AN526-832R4	RECESSED HEAD SCREW	N/A	6	3		
AN960-8	WASHER	N/A	6	3		
20353-21	AIRSPEED INDICATOR	1	1	2		
50175-749	PLACARD	N/A	1	1		
21436-303	PLACARD	1	1	2		
AN4-65	BOLT	1	1	1		
AN960-416	WASHER	30	30	30		
AN960-416L	WASHER	4	4	4		
MS17825-4	NUT	22	22	22		
MS24665-132	COTTER PIN	22	22	22		
95619-1	PUSH ROD ASSY	N/A	N/A	1		
AN4-12	BOLT	7	7	7		
AN4-54	BOLT	1	1	1		
AN4-13	BOLT	4	4	4		
50356-509	CONTROL STICK ASSY	N/A	N/A	1		
57055-11	TORQUE TUBE ASSY	N/A	N/A	1		

Part Number	Description	for replacemen	Quantity for replacement parts depending on aircraft to be modified				
		[A]* Single Cockpit	[B] * Dual Cockpit/Single Control	[C]* Dual Cockpit/Dual Control			
AN4-37	BOLT	N/A	N/A	1			
19650-15	CONTROL STICK ASSY	N/A	N/A	1			
AN4-34	BOLT	N/A	N/A	1			
MS24665-151	COTTER PINS	8	8	8			
70403-504	BUSHING	4	4	4			
21180-1	LEVER	2	2	2			
21552-2	SCOOP	1	1	1			
21552-3	SCREEN	1	1	1			
21552-15	DUCT HOSE CONNECTOR	1	1	1			
21552-17	CAP ASSY	1	1	1			
21552-23	CAP ASSY	1	1	1			
AN526C632-R7	SCREW	4	4	4			
AN526C632-R8	SCREW	10	10	10			
AN960-6	WASHER	14	14	14			
MS21044N06	NUT	14	14	14			
QS100M44S (10044S)	HOSE CLAMP	2	2	2			
QS100M88S (10088S)	HOSE CLAMP	1	1	1			
SCAT 12	HOSE	24" LONG	24" LONG	24" LONG			
9012-17	BELLCRANK	N/A	1	1			

Parts Required/ Furnished with this Kit for Tail Gear Installations. Reference Section 10 to determine parts necessary for tail gear replacement.

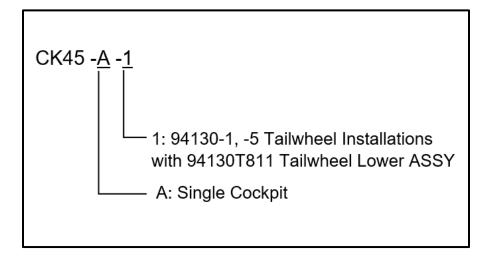
Part Number	Description	•	Quantity For replacement parts depending on the tailwhere assemblies to be modified [1] * [2] * [3] *			
		[1] * 94130-1 or -5 Single Arm	94130-1 or -5 94130-1 or -5			
94131-19	TUBE ASSEMBLY	1	1	1		
NAS6206-40D	BOLT	1	1	1		
MS20002-36	WASHER	1	1	1		
AN960-616	WASHER	1	1	1		
AN310-6	NUT	1	1	1		
MS24665-300	COTTERPIN	1	1	1		
NAS1306-18	BOLT	4	4	N/A		
MS20002-C6	WASHER	4	4	N/A		
AN960C-616L	WASHER	4	4	N/A		
MS21044-N6	NUT	4	4	N/A		
94130T811	TAILWHEEL LOWER ASSY (DOUBLE ARM)	1	N/A	N/A		
CA84106-02-101	CUSTOM AIR (SINGLE ARM)	N/A	1	N/A		

NOTE: [1] and [2] are interchangeable. Selection depends on owner/operator preference.

Thrush Aircraft, Inc. Custom Kit No. CK-AG-45 Rev. B, Dated 07/06/2018 Kit Part Numbering Breakdown

The Kit part number consist of basic number and letter combinations to designated options.

- Use A, B, or C for single cockpit, dual cockpit single control, and dual cockpit dual control, respectively.
- Use **1** for 94130-1, -5 Tailwheel Installations with 94130T811 Tailwheel Lower Assy, **2** for 94130-1, -5 Tailwheel Installations with CA84106-02-101 Custom Air, and **3** for 94130-7 Tailwheel Installations.
- If Tailwheel Installation is not required, use only A, B, or C.



Use this breakdown as a guide to specify the exact parts needed.

Example of Part List Number

10. MODIFICATIONS

10.1 TAIL GEAR INSTALLATION 94130-9, -11 IS REQUIRED FOR AIRCRAFT SERIAL NUMBERS T34273 & UP

10.1.1 DETERMINE IF INSTALLATION ON THE AIRCRAFT IS A SINGLE ARM OR DOUBLE ARM.

Single Arm is a Custom Air design implemented by Thrush Aircraft, Inc. Double Arm is a Thrush Aircraft, Inc. original design.



Figure 45-1a Single Arm Installation 94130-9

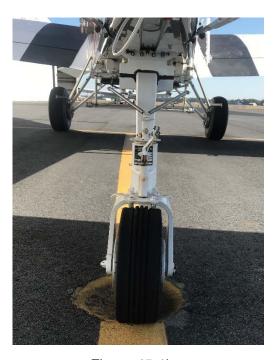


Figure 45-1b

Double Arm Installation 94130-11

After determining the type of tailwheel arm, further examination is needed for both single and double arm installations since there are variations on the tailwheel assembly. Removal and replacement of forks is described in Section 10.1.5.

10.1.2 DETERMINE IF THE SINGLE ARM INSTALLATION IS A 94130-1, -5, OR -9.

TAILWHEEL ASSEMBLY IS DETERMINED BY TUBE ASSEMBLY PART NUMBER.

10.1.3 DETERMINE IF THE DOUBLE ARM INSTALLATION IS A 94130-7 OR 94130-11.

TAILWHEEL ASSEMBLY IS DETERMINED BY TUBE ASSEMBLY PART NUMBER.

Tube Assembly can be located and identified at the tail section of aircraft. See Figure 45-1c. Tube Assembly eligibility is given in Table 45-1.



Figure 45-1c Location of Tube Assy Tail Section

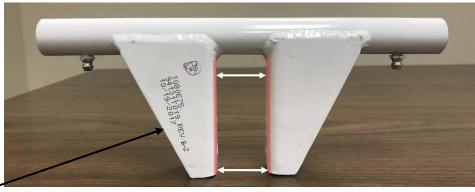
	TABLE 45-1										
TAILWHEEL ASSY	TUBE ASSY	DIMENSION A FIGURE 45-1D	DIMENSION B FIGURE 45-1E	NEED TUBE REPLACEMENT	NEED TAILWHEEL REPLACEMENT						
94130-1	94131-1	.438440	1.06-1.25	YES	YES						
94130-5	94131-15	.375376	1.06-1.25	YES	YES						
94130-7	94130-15	.375376	1.06-1.25	YES	NO						
94130-9	94131-19	.375376	1.25-1.40	NO	NO						
94130-11	94131-19	.375376	1.25-1.40	NO	NO						

Tube Assembly 94131-19 is the only part number eligible for Custom Kit AG-45. Therefore, all Tube Assemblies that need replacement shall be replaced with P/N 94131-19.

If part number is not legible or cannot be found, these are the locations of dimension differences between 94131-1, -15, & -19. Parts are removed from aircraft for clarity in Figures 45-1d and 45-1e.



Figure 45-1d Dimension A Inside Diameter



Standard Part _ Number Location

Figure 45-1e
Dimension B
Distance Between Brackets

For Tube Assemblies that need replacement, proceed with directions as followed:

10.1.4 REPLACEMENT OF TUBE ASSEMBLY

- 1. Jack aircraft per SR2—T34 Maintenance Manual
- 2. Remove tail wheel assembly
- 3. Remove (2 inner/2 outer) nuts from trunnion attach shaft
- 4. Remove trunnion attach shaft
- 5. Remove nut & bolt from tube assembly
- 6. Remove tube assembly
- 7. Install new tube assembly by reversing removal process. Use new hardware:
 - NAS6206-40D BOLT
 - MS20002-36 WASHER (UNDER HEAD)
 - AN960-616 WASHER (UNDER NUT)
 - AN310-6 NUT
 - MS24665-300 COTTERPIN

Outer Nut

Trunnion

Inner Nut

Attach Shaft



Tube Assy Nut

Figure 45-1f Tube Assy Removal Tube Assy

10.1.5 TAIL WHEEL REMOVAL AND REPLACEMENT

Single Arm Installations 94130-1, -5 (without reinforcement strap) will need to be removed and replaced with a Double Arm 94130-11 or Custom Air 94130-9 (with reinforcement strap). See Figure 45-1g



Figure 45-1g
Custom Air 94130-9 with reinforcement strap pictured.
94130-1 and -5 do not have reinforcement strap.

Remove as followed:

- Jack aircraft per S2R-T34 Maintenance Manual
- Separate tailwheel assembly from spring/spindle assembly by removing (4) attaching bolts. See Figure 45-1h.



Figure 45-1h
Tail wheel attachment points

- Install replacement tailwheel. Reverse removal process using new hardware:
 - (4) NAS130-18 Bolt
 - (4) MS20002-C6 Washer (under head)
 - (4) AN960C-616L Washer (under nut)
 - (4) MS21044-N6 Nut

10.2 DUAL COCKPIT SINGLE CONTROL SAFETY PADDING INSTALLATION

- a) Insert edge guard and angle flange (2 plcs) as shown in Figure 45-2.
- b) Locate angle center to center nut clip hole. Drill #20 holes in angle to match nut clips. (6 plcs)
- c) Install using AN526-832R2 screws and AN960-8 washers. (6 plcs)

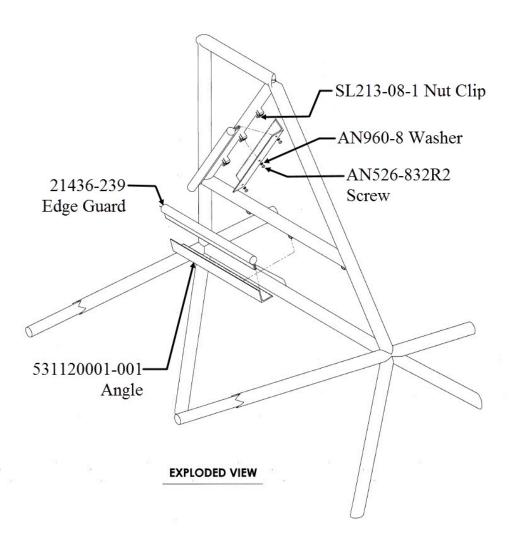
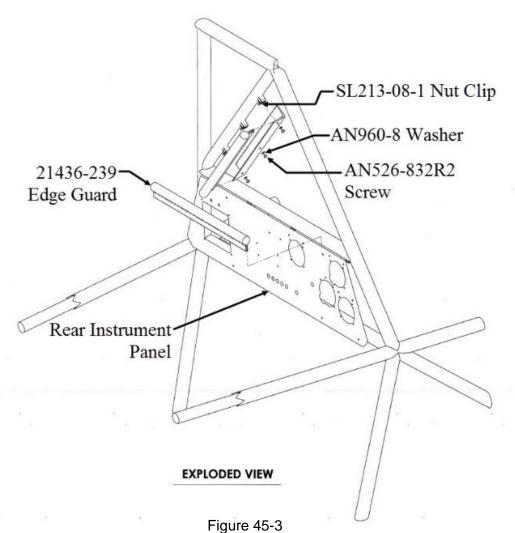


Figure 45-2

Dual Cockpit Single Control Safety Padding Installation

10.3 DUAL COCKPIT DUAL CONTROL SAFETY PADDING INSTALLATION

- a) Insert top edge guard in angle flange as shown in Figure 45-3.
- b) Locate angle center to center nut clip hole. Drill #20 holes in angle to match nut clips. (3 plcs)
- c) Install using AN526-832R2 screws and AN960-8 washers. (3 plcs)
- d) Locate bottom edge guard center on upper edge of instrument panel and slide on to install.



Dual Cockpit Dual Control Safety Padding Installation

10.4 INSTALLATION OF 20353-21 AIRSPEED INDICATOR IN THE UPPER INSTRUMENT PANEL FOR SINGLE COCKPIT AND DUAL COCKPIT SINGLE CONTROL AIRCRAFT.

- 1. Original Airspeed Indicator Removal. See Figure 45-4 and 45-5.
 - a. Disconnect pitot and static lines from instrument.
 - b. Plug lines to prevent foreign matter or moisture from entering system.
 - c. Remove screws (4 plcs), while supporting unit from behind.
 - d. Remove unit from instrument panel.
- 2 Airspeed Indicator Installation
 - a. Place 20353-21 Airspeed Indicator in instrument panel.
 - b. Secure instrument to the panel with screws. (4 plcs)
 - c. Remove plugs from the lines.
 - d. Reconnect pitot and static lines to instrument.
- 3. Perform PITOT Static check per instructions in the S2R-T34 Aircraft Maintenance Manual section 31-20.02.5.

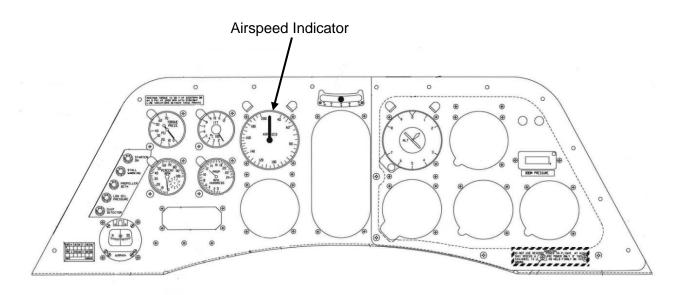


Figure 45-4 Front View Representation of Upper Instrument Panel Assy with round gages

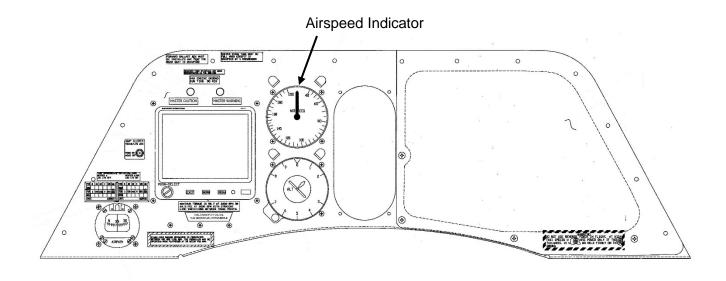


Figure 45-5
Front View Representation of Upper Instrument
Panel Assy with MVP Display Installed

10.5 INSTALLATION OF 20353-21 AIRSPEED INDICATOR IN THE REAR INSTRUMENT PANEL OF DUAL COCKPIT DUAL CONTROL AIRCRAFT.

- 1. Original Airspeed Indicator Removal. See Figure 45-6 and 45-7.
 - a Disconnect pitot and static lines from instrument.
 - b. Plug lines to prevent foreign matter or moisture from entering system.
 - c. Remove screws (4 plcs), while supporting unit from behind.
 - d Remove unit from instrument panel.
- 2 Airspeed Indicator Installation
 - a Place 20353-21 Airspeed Indicator in instrument panel.
 - b. Secure instrument to the panel with screws. (4 plcs)
 - c Remove plugs from the lines.
 - d. Reconnect pitot and static lines to instrument.
- 3. Perform PITOT Static check per instruction in the S2R-T34 Aircraft Maintenance Manual section 31-20.02.5.

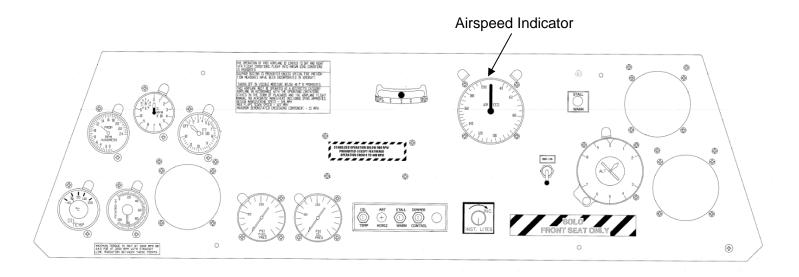


Figure 45-6
Front View Representation of Rear Instrument
Panel Assy with round gages installed

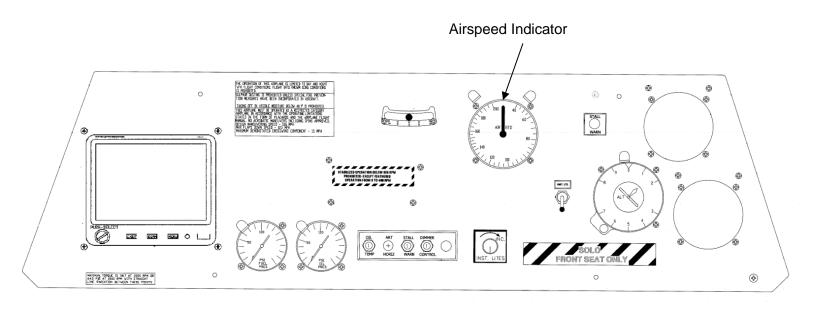


Figure 45-7
Front View Representation of Rear Instrument
Panel Assy with MVP installed

10.6. 21436-303 LIMITATIONS PLACARD INSTALLATION

Install new Limitations Placard on top of existing Limitations Placard in the FWD & rear cockpits as follows:

- a) Thoroughly clean area with isopropyl alcohol.
- b) Install the 21436-303 Limitations Placard on top of the existing Limitations Placard on the right hand universal instrument panel assembly in the FWD cockpit.
- c) Install the 21436-303 Limitations Placard on top of the existing Limitations Placard on the rear instrument panel of the dual cockpit dual control.
- d) See Figure 45-8.

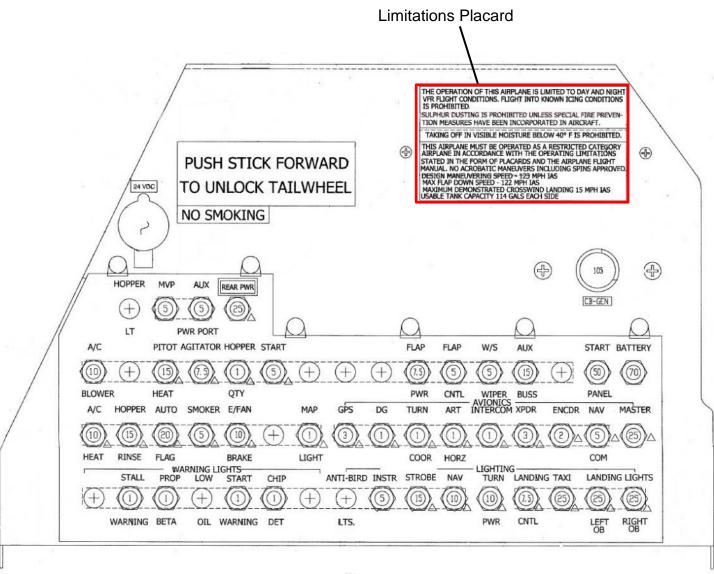


Figure 45-8 21492-87 RH Universal Instrument Panel Assembly in FWD Cockpit

10.7. 50175-749 SEATBELT/HARNESS PLACARD INSTALLATION

Install Seatbelt/Harness Placard in the rear cockpit as follows:

- a) Thoroughly clean area with isopropyl alcohol.
- b) Install the 50175-749 Seatbelt/Harness Placard in the rear cockpit of the Dual Cockpit Single Control.
- c) Install the 50175-749 Seatbelt/Harness Placard on the rear instrument panel for the Dual Cockpit Dual Control.
- d) See Figure 45-9.

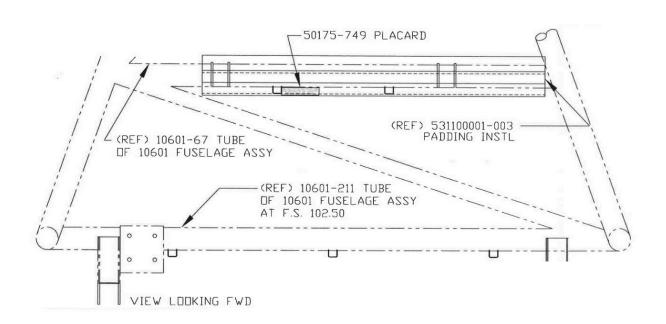


Figure 45-9 50175-749 Placard Location

10.8. UPDATE 70084-70 AILERON CONTROL SYSTEM FOR SINGLE COCKPIT, DUAL COCKPIT SINGLE CONTROL AND DUAL COCKPIT DUAL CONTROL AIRCRAFT.

- a) For single cockpit, dual cockpit single control, and dual cockpit dual control configurations:
 - Remove existing hardware at 95619-1 Push Rod, 57052-1 Idler, 9004-13 Push Tube, and 9012-6 Bellcrank attach points. See Figure 45-10.
- b) For dual cockpit dual control configuration:
 - Remove 901-22 Push Tube and replace with 95619-1 Push Rod Assembly. See figure 45-10.
- c) Install new hardware. See Figure 45-10 and Table 45 A. Torque hardware per Appendix B Torque Chart.

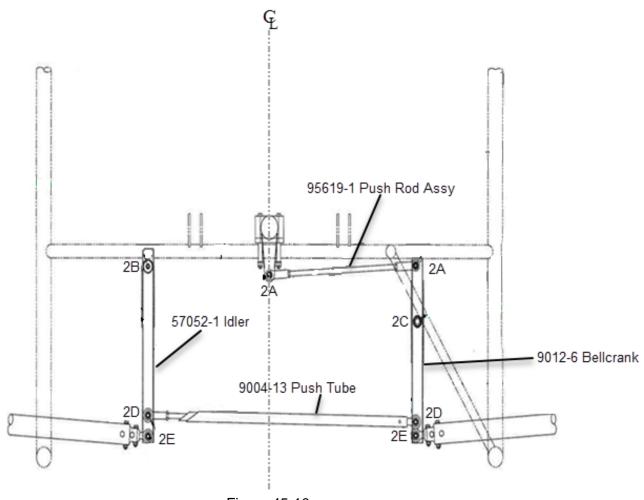


Figure 45-10						
View from within the fuselage						
frame between flaps & wings						

Table 45 A New Hardware										
	Bolt Washer Nut Cotterpin									
2A	AN4-12	AN960-416	MS17825-4	MS24665-132						
2B	AN4-65	AN960-416	MS17825-4	MS24665-132						
2C	AN4-54	AN960-416/416L*	MS17825-4	MS24665-132						
2D	AN4-13	AN960-416	MS17825-4	MS24665-132						
2E	AN4-13	AN960-416	MS17825-4	MS24665-132						

^{*}Install between 9012-6 Bellcrank and bushing in fuselage frame.

d) For single cockpit, dual cockpit single control and dual cockpit dual control configurations: Change out the existing hardware used to connect the Aileron hinges to the Wing and incorporate castellated nuts per figure 45-11. Torque hardware per Appendix B Torque Chart.

Replacement hardware at attach points (4 plcs) shown below:

- AN4-12 Bolt
- AN960-416 Washer (one under nut and each side of rod end)
- MS17825-4 Nut
- MS24665-132 Cotter Pin

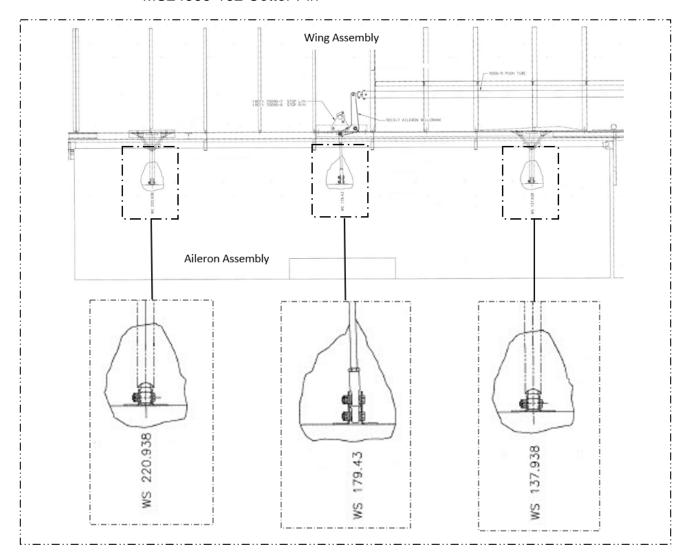


Figure 45-11 Cutout of Wing Assembly and Aileron Assembly Attach Points Enlarged

- e) For dual cockpit dual control configuration **only**, incorporate changes per figure 45-12 as follows:
 - Remove existing Torque Tube and replace with the 57055-11
 Torque Tube. Inspect the condition of the existing hardware to
 ensure if satisfactory for reinstallation. If not satisfactory, use new
 hardware.
 - 2) Remove existing control sticks and install the short control sticks 50356-509 FWD and 19650-15 AFT with hardware shown below.
 - 3) Torque hardware per Appendix B Torque Chart.

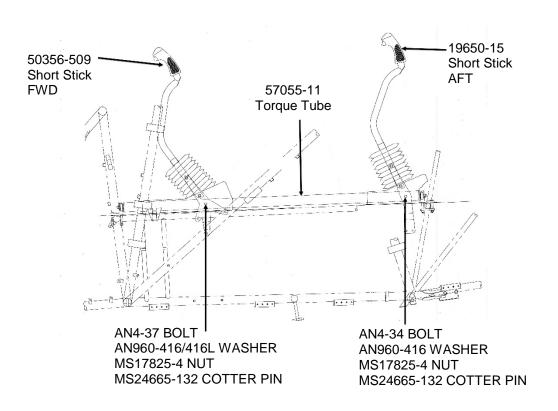


Figure 45-12

Dual Cockpit Dual Control

Control Stick Installation

8.9 DUAL COCKPIT DUAL CONTROL ELEVATOR BELLCRANK REPLACEMENT

See Figure 45-13 for location of bellcrank and use the following steps for replacement:

- a) Remove 9012-8 Bellcrank from aircraft. Inspect the condition of the existing hardware to see if satisfactory for reinstallation. If not satisfactory, use new hardware.
- b) Install 9012-17 Bellcrank.
- c) If cable tension is loosened/tightened at installation, rig Elevator controls per S2R-T34 Aircraft Maintenance Manual section 27-30.05.

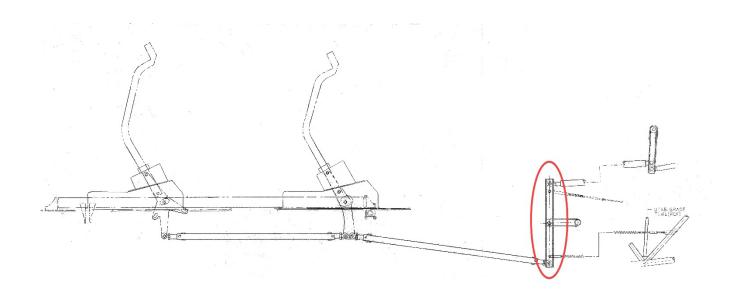


Figure 45-13

Dual Cockpit Dual Control

Bellcrank Location

8.10 DUAL COCKPIT SINGLE CONTROL ELEVATOR BELLCRANK REPLACEMENT

See Figure 45-14 for location of bellcrank and use the following steps for replacement:

- a) Remove 9012-8 Bellcrank from aircraft. Inspect the condition of the existing hardware to see if satisfactory for reinstallation. If not satisfactory, use new hardware.
- b) Install 9012-17 Bellcrank.
- c) If cable tension is loosened/tightened at installation, rig Elevator controls per S2R-T34 Aircraft Maintenance Manual section 27-30.05.

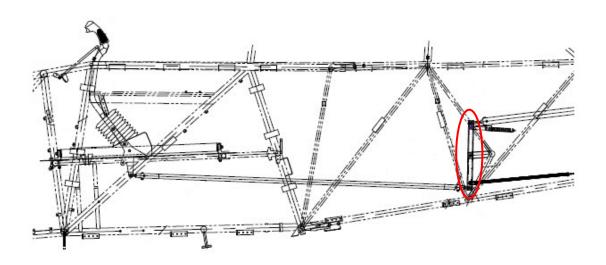


Figure 45-14

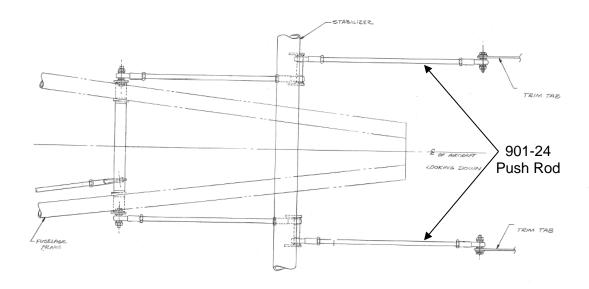
Dual Cockpit Single Control

Bellcrank Location

8.11 UPDATE ELEVATOR TRIM TAB CONTROL INSTALLATION TO THE 70273- 516 CONFIGURATION.

See Figure 45-15 for location of Elevator trim tab control and use the following steps to update:

a) Remove and discard 901-24 Push Rod Assembly from Elevator Trim Tab. Inspect the condition of the existing hardware to see if satisfactory for reinstallation. If not satisfactory, use new hardware.



Push Rod Location Figure 45-15

- b) Install 70403-504 bushings into 21180-1 lever. See Figure 45-16.
- c) Install Lever Assy to reattach Elevator Trim Tab. See Figure 45-17.
- d) Rig elevator controls per S2R-T34 Aircraft Maintenance Manual section 27-30.07, if necessary.



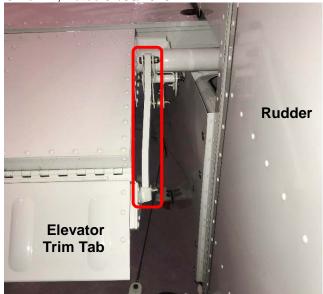


Figure 45-16 70403-504 Bushing installed into 21180-1 Lever

Figure 45-17
Elevator Trim Tab Lever Location

8.12 UPDATE THE 19841-15 COWLING ASSY TO INCORPORATE THE 95050-3 START GEN/COOLING INSTL.

- a) Remove the existing 19841-15 Cowling Skin Assy. See figure 45-18 for existing Assy.
- b) Modify the existing Cowling Skin Assy by cutting a 3-inch diameter hole per the dimensions shown in figure 45-19. This hole is required to allow installation of the 21552-2Scoop.
- C) Assemble the 21552-2 Scoop to the Cowling Skin Assy and connect it to the Starter Generator with the hardware shown in figure 45-20.



Figure 45-18
Existing Cowl Skin Assy Location

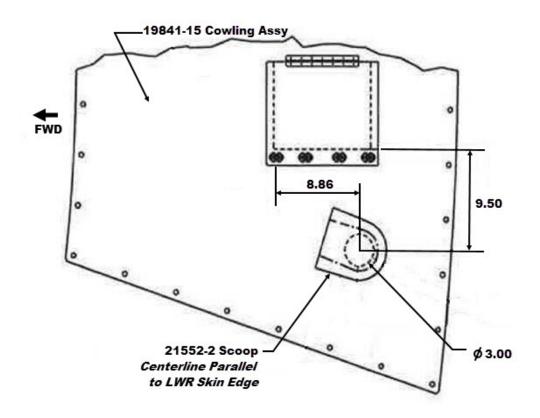


Figure 45-19 Cowl Skin Modification Location and Dimensions

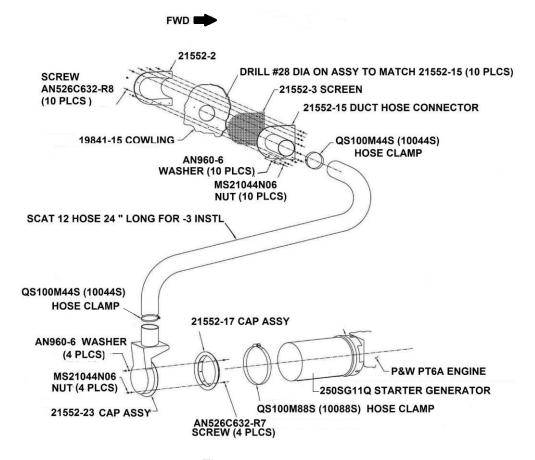


Figure 45-20 Hardware required to connect 21552 Scoop to Starter Generator

11. RE-WEIGH THE AIRCRAFT.

Although change in weight and balance is not expected, weight and balance shall be verified after completion of this kit.

Incorporate any changes into the Weight & Balance Chart to ensure aircraft weight is within the allowable limit and the center of gravity (CG) is within the allowable range.

12. PERFORM A MAINTENANCE FLIGHT CHECK

Maintenance test flight is necessary for fine adjustments of the systems reworked and to ensure proper operation of the aircraft. Make all adjustments as necessary prior to returning aircraft to service.

13. RECORD OF COMPLIANCE

Make appropria Custom Kit CK				ed revision,		at_	
Modification includes the following: See "Description Work Accomplished" listed on Form 337.							
	(Mechanic	Name &	Certificate #)			(Date)	

14. CUSTOM KIT COMPLETION CRITERIA

NOTE: FORM 337 MUST BE COMPLETED AND APPROVED FOR RETURN TO SERVICE.

This Custom Kit is only complete when Form 337 has been properly filled out and approved for return to service and all required entries have been made in the airplane log book with proper signatures.

15. RESPONSE CARD

The final step in compliance with this Custom Kit is to complete and return the compliance card on the next page. It may be mailed, Faxed, or scanned and e-mailed.

FAX to: Ed Rusk 229-439-9790

E-mail to: Ed Rusk erusk@thrushaircraft.com

Custom Kit No. CK-AG-45 Rev. B Compliance Report

Aircraft Owner:						
Address of Owner:						
City & State:						
Physical Location:						
Complied with by:						
Signature:						
Faxed to (229) 439-9790, or e-mailed to						
ot Staple) Don't forget postage						

THRUSH AIRCRAFT INC.

Attn: Ed Rusk 300 Old Pretoria Road Albany, GA 31721

APPENDIX A

CK-AG-45								
CUSTOM KIT ORI	CUSTOM KIT ORDER FORM							
AIRCRAFT SERIAL NUMBER:								
AIRCRAFT DESIGNATION:								
SINGLE COCKPIT	SINGLE COCKPIT							
DUAL COCKPIT/SII	DUAL COCKPIT/SINGLE CONTROL							
DUAL COCKPIT/DU	JAL CONTRO	DL						
TAIL GEAR INSTALLATION: (See Section 8.1 to aid in makir	ng a determin	ation.)						
CUSTOM AIR INSTALLATION	94130-1							
CUSTOM AIR INSTALLATIION	94130-5							
CUSTOM AIR INSTALLATION	CUSTOM AIR INSTALLATION 94130-9							
FORK INSTALLATION	94130-7							
FORK INSTALLATION	94130-11							
This form to be completed when ordering	CK-AG-45. Pr	ovide email address						
with request.								

APPENDIX B

Torque Chart *MS17825-4 Nut Torque is 30-inch pounds*

	FINE THREAD SERIES									
		-	The Lates				DOLTO.			
		ВО	LTS					В	OLTS	
	Steel Te	nsion					Steel Tension			
	AN 3 thru	u AN 20					MS 20004 thru MS 20024			
		ru AN 49					NAS 144 thi			
		AN 73 thru AN 81					NAS 333 th			
	AN 173 thru AN 186 AN 20033 thru MS 20046						NAS 583 th			
	MS 2003		20046				NAS 624 th	u NAS 644 nru NAS 112	0	
	MS2007	0.00						nru NAS 112		
	AN509 N							nru NAS 132		
	MS 2460							nru NAS 622		
	AN 525 I	N K525					NAS 6603 t	nru NAS 662	0	
	MS2703	9					NAS 172			
							NAS 174			
							NAS 517	-	Steel Shear	
									NAS 454	i .
	NUTS							N	UTS	
	Steel Te	Steel Tension Steel Shear					Steel Tension		Steel Shear	
	AN 310		AN 320				AN 310		AN 320	
	AN 315 AN 363		AN 364 NAS 1022	,			AN 315 AN 363		AN 364 NAS 1022	
	AN 365		MS 1782				AN 365		MS 17826	
	NAS 102	21	MS 20364				MS 17825		MS 20364	
	MS 1782		MS 21083N				MS 20365		MS 21083N	
	MS 2104	.5	MS 21245				MS 21045		MS 21245	3
	MS 2036						NAS 1021			
	MS 2050						NAS 679			
	NAS 679					NAS 1291				
		S 21042 S 21044N				MS 21042 MS 21044N				
	MS 2104					MS 21044N				
ut-bolt		e Limits	Torque	Limits		Nut-bolt	Torque	Limits	Torque Limits	
size		lbs.		bs.		size	in-l	os.		-lbs.
	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.
8-36	12	15	7	9		8-36	25	20	45	20
10-32 ¼ -28	20 50	25 70	12 30	15 40		10-32 1/4 -28	25 80	30 100	15 50	20 60
16 - 24	100	140	60	85		5/16 - 24	120	145	70	90
/8 – 24	160	190	95	110		3/8 - 24	200	250	120	150
/16-20	450	500	270	300		7/16-20	520	630	300	400
½ - 20	480	690	290	410		1/2 - 20	770	950	450	550
16 – 18	800	1,000	480	600		9/16 - 18	1,100	1,300	650	800
/8 – 18	1,100	1,300	660	780		5/8 - 18	1,250	1,550	750	950
¼ - 16	2,300	2,500	1,300	1,500		3⁄4 - 16	2,650	3,200	1,600	1,900
/8 – 14	2,500	3,000	1,500	1,800		7/8 – 14	3,550	4,350	2,100	2,600
1 – 14	3,700	4,500	2,200	3,300		1 – 14	4,500	5,500	2,700	3,300
1/8 -12	5,000	7,000	3,000	4,200		1 1/8 -12	6,000	7,300	3,600	4,400
1/4 - 12	9,000	11,000	5,400	6,600		1 1/4 - 12	11,000	13,400	6,600	8,000