AuthorityCountry: FAA/United States									
Avionics Specialist, Inc. Avionics Specialist, Inc. A Phone (801) 382-370-EMBEN 18, Th 38116 U.S.A. Phone (801) 382-370-EMBEN 18, The 38116 U.S.A. Phone (801) 382-370-EMBEN 18, Phone (Author	ity/Country:					FICAT	r l	
A HONEYWELL TCAS ANTENNA O71-01548-0200 1 each 597-121149 REPAIRED ANT-67A STATE OF ANTENNA O71-01548-0200 1 each 597-121149 REPAIRED ANT-67A Technician: Chad Greer Date: 22 JUL 2024 Technician: Chad Greer Date: 22 JUL 2024 Technician: Chad Greer Date: 22 JUL 2024 Technician: Chad Greer Date: Date: 22 JUL 2024 Technician: Chad Greer Date: Date: 22 JUL 2024 Technician: Chad Greer Date: D	4. Organizat	=		Phone (901) 362-9700 Fa	x (901) 375-8310				
ANT-G7A 12. Remarks: Approval For Return To Service Reference Work Order: 513432. Technician: Chad Greer ESTED AND INSPECTED AND INSPECTED ANTENNAL UNIT PASSES PERFORMANCE TESTS. CLARGE REPARKED, AND REFURBISHED OUTER ANTENNA SURFACE. ANTENNA MEETS ALL MFG. SPECS. ANTENNA HAS BEEN REPAIRED USING CAME 1/16/CF REV 4 MAY 11, 2020, DATA TAG INDICATES MOD F1. All percornal associated with the regal of his paticomponent net the repaired file and the book 1/17/West control of the paticomponent net the repaired file that the work packed the decoration with EASA Pert-145/MR Pert-145 and in respect to that work the component is considered ready for release to service usder EASA Pert-145/MR Pert-145 Approval Certificate Numbers and the specified in Block 12 and described in Block 12 and in respect to that work, the items are approved for return to service. 13b. Authorized Signature 13c. Approval/Authors stice No. 13d. Name (Typed or Prigard) 13e. Date (ddfm:mm/95cc). 13f. Authorized Signature 14d. Amme(Typed or Prigard) 14d. Name(Typed or Prigard) 14e. Date (ddfm:mm/95yyy) 14d. Name(Typed or Prigard) 14e. Date (ddfm:mm/9yyyy) 15e. Date (ddfm:mm/95cc). 15e. Date (dd	6. Item:	7. Description:	.]:	8. Part Number:		9. Quantity:	10. Serial N	lumber:	11. Status/Work::
TESTED AND INSPECTED ANTENNA. UNIT PASSES PERFORMANCE TESTS. ALEANED, REPAIRED. AND REFURBISHED OUTER ANTENNA SURFACE. ANTENNA MEETS ALL MFG. SPECS. ANTENNA HAS BEEN REPAIRED USING CMM# 1181C REV 4 MAV 11, 2020. DATA TAG INDICATES MOD #1. All personnel associated with the regal of this particorreponent met the requirements of FAR 121377. This document has been is saud according to an FAA accepted electronic signature process 082017. Avionics Specialist, Inc. certifies that the work specified in block 1112 was accordance with 1182 and confidence with 1182 and described in Block 12 and described in Block 13 and described in Block 14 and described in Block 15 and described in Block 15 and described in Block 16 and described in Block 17 and described in Block 18 and described in Block 18 and described in Block 19 and descr	Α		À	071-01548-0200		1 each	587-1211	49	REPAIRED
14a 14 CFR 43.9 Return to Service Other regulation specified in Block 12									
PK4R443M 13d. Name(Typed or Privated): 13e. Date (dd/mmm/ysyr): 13e		pproved design data and are in a condition for sa		a conformity to:	Certifies that and described Federal Regul	unless otherwise spe in Block 12 was ac ations; part 43 and i	cified in block 1	2, the work identicordance with Tit	fied in Block 11 le 14, Code of
User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.	13b. Autho	wized Signature:	13c. A	Approval/Authors ation No:			- 1	••	
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13 a and 14 a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.	13d. Name	(Typed or Printed):	13e. I	Date (dd/m mm/79507):		•	1	•	
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13 a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.				User/Installer	Responsibilitie	s			
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			aircraft may	be flown.					NENT 0052 00 012 0005

FAA Form 8130-3 02-14 NSN: 0052-00-012-9005

ANT-67A

Directional Antenna Array							
		TESTER	C. GREER	i: 071-01548-0200		S/N: 587-121149	
			Resistance Limit in Ohms		Resistance	Limit in Ohms	
ANTENNA C	ONNECTOR	J1 - Yellow _	1821	1710 - 1890	J2 - Black3930	3705 - 4095	
RESISTANO	CE CHECKS	J3 - Blue _	6820	6460 - 7140	J4 - Red10010	9700 - 10,300	
8753ES-to-	-ANTENNA		<u>S-P</u> /	RAMETER MEASUREMEN	ITS @ 1030 MHz		
CABLE CON	INECTIONS	<u>Magnitude</u>		<u>Magnitude</u>	Phase in		
Port 1	Port 2		in dB		in dB	Degrees	
J1	J2	MS11 _	-18.8	PS 11 N/A	MS 21 -10.5	PS 21 170.9	
		MS 12 _	-10.5	PS 12 170.8	MS2221.6	PS 22 N/A	
J1	J3	MS 11	N/A	PS 11 N/A	MS31 -17.9	PS 31 100	
		MS 13 _	-18.1	PS 13 99.9	MS3318.8	PS 33 N/A	
J1	J4	MS 11	N/A	PS 11 N/A	MS41 -10.4	PS 41 171.7	
		MS14 _	-10.3	PS 14 171.7	MS4421.4	PS 44 N/A	
J2	J3	MS 22	N/A	PS 22 N/A	MS32 -10.8	PS 32 168.9	
		MS 23 _	-10.7	PS 23 169	MS33 N/A	PS 33 N/A	
J2	J4	MS 22	N/A	PS 22 N/A	MS42 -19	PS 42 98.3	
		MS 24 _	-18.9	PS 24 98.3	MS44 N/A	PS 44 N/A	
J3	J4	MS33	N/A	PS 33 N/A	MS43 -10.5	PS 43 169.4	
		MS 34 _	-10.5	PS 34 169.4	MS44 N/A	PS 44 N/A	

	Limit in		
Phase difference	Computed	Degrees	Pass/Fail
PS12 - PS14	1°	6°	Pass
PS21 - PS41	1°	6°	Pass
PS31 - PS24	2°	6°	Pass
PS13 - PS42	2°	6°	Pass
PS32 - PS34	1°	6°	Pass
PS23 - PS43	0°	6°	Pass
PS23 - PS13	69°	90° ± 30°	Pass
PS43 - PS13	70°	90° ± 30°	Pass
Magnitude difference	Computed	Limit in dB	Pass/Fail
MS12 - MS14	-0.2	< 0.5 dB	Pass
MS21 - MS41	-0.1	< 0.5 dB	Pass
MS31 - MS24	1	< 2.0 dB	Pass
MS13 - MS42	0.9	< 2.0 dB	Pass
MS32 - MS34	-0.3	< 0.5 dB	Pass
MS23 - MS43	-0.2	< 0.5 dB	Pass

TEST ACCEPTED BY: _	C. GREER
DATE TESTED:	7/15/2024

Magnitude	Entered	Limit in dB	Pass/Fail
MS11	-18.8 dB	-13.5 dB	Pass
MS22	-21.6 dB	-13.5 dB	Pass
MS33	-18.8 dB	-13.5 dB	Pass
MS44	-21.4 dB	-13.5 dB	Pass
MS12	-10.5 dB	-9.8 to -11.8 dB	Pass
MS14	-10.3 dB	-9.8 to -11.8 dB	Pass
MS21	-10.5 dB	-9.8 to -11.8 dB	Pass
MS41	-10.4 dB	-9.8 to -11.8 dB	Pass
MS31	-17.9 dB	-16.0 to -23.0 dB	Pass
MS24	-18.9 dB	-16.0 to -23.0 dB	Pass
MS13	-18.1 dB	-16.0 to -23.0 dB	Pass
MS42	-19.0 dB	-16.0 to -23.0 dB	Pass
MS32	-10.8 dB	-9.8 to -11.8 dB	Pass
MS34	-10.5 dB	-9.8 to -11.8 dB	Pass
MS23	-10.7 dB	-9.8 to -11.8 dB	Pass
MS43	-10.5 dB	-9.8 to -11.8 dB	Pass

