

TCAS II CAS-67A CONFIGURATION MODULE PROGRAMMING

NOTES:

- THIS DRAWING FILED IN PROCADAM.
- TPU 66A/67A DIAGNOSTICS--"TCASDIAG" PROGRAM P/N 222-00386-0001 (REF). 3
- ALLIEDSIGNAL, OLATHE, KS.

THE TCAS II CAS-67A CONFIGURATION MODULE MUST BE PROGRAMMED INITIALLY ON THE FIRST TCAS II START-UP. THE PROCEDURE IS AS FOLLOWS:

- CONNECT THE TCAS II TPU DIAGNOSTIC CONNECTOR TO THE DIAGNOSTIC COMPUTER RUNNING ALLIEDSIGNAL'S TCASDIAG (VERSION 2.0) PROGRAM. USING THE 9-PIN SERIAL COM PORT CONNECTION. START THE TCAS PROCESSOR. THE LED ON THE RIGHT SIDE OF THE TPU WILL BLINK WHENEVER POWER IS APPLIED TO THE UNIT. BEGIN THE TCASDIAG PROGRAM; THE DIAGNOSTIC PROGRAM WILL AUTOMATICALLY LINK TO THE TPU PROVIDED THE DIAGNOSTIC CONNECTOR WIRING IS CORRECTLY INSTALLED AND THE COM PORT #1 IS WORKING PROPERLY. THE FOLLOWING SCREEN SHOULD BE DISPLAYED ON THE DIAGNOSTIC COMPUTER. 2

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I/O Data  Diag Log  Config Mod  Intruder Data  Cable Cal  Sys Status  Misc

AlliedSignal Aerospace Company
TCAS (TPU 67A)
Field Diagnostics Program
Version 2.0
Copyright (c) 1996

TCAS II aircraft specific information
TPU serial #: Pxxxxx, Tail #: Nxxxxx, S/W ver: 01/11, H/W ver: 01/01
04/14/98
    
```

- HIGHLIGHT THE CONFIG MOD SELECTION AND PRESS ENTER TO SELECT. HIGHLIGHT THE INITIALIZE CONFIG MODULE SELECTION AND PRESS ENTER TO SELECT. THIS CLEARS THE MODULE AND PREPARES IT FOR PROGRAMMING. THE SCREEN IS ILLUSTRATED BELOW.

```

I/O Data  Diag Log  Config Mod  Intruder Data  Cable Cal  Sys Status  Misc

View Strap Data
View Bearing Data
Modify Strap Data
Modify Bearing Data
Top Ant. Correction
Bot Ant. Correction
Save to Text File
Save to Binary File
Copy from Binary File
Initialize Config. Module

TCAS II aircraft specific information
TPU serial #: Pxxxxx, Tail #: Nxxxxx, S/W ver: 01/11, H/W ver: 01/01
04/14/98
    
```

- HIGHLIGHT THE MODIFY STRAP DATA AND PRESS ENTER TO SELECT. THE SCREEN BELOW WILL BE DISPLAYED ON THE DIAGNOSTIC COMPUTER. HIGHLIGHT EACH OPTION AND MAKE THE INDICATED SELECTION.

```

I/O  Modify Config Mod Strap Data  S/W Ver: 01/11, H/W Ver: 01/01

Heading Source Type - ARINC 429 Digital
Attitude Source Type - ARINC 429 Digital
Intruder File Type - Honeywell (BCAS format)
Altitude Limit - 48000 ft.
Airborne Functional Test Inhibit - Not Inhibited
Display All Traffic - All traffic displayed
Ground Display Mode - TA-ONLY mode on ground
Radio Altimeter Type - Collins (ALT50/55)
Air Headphones Audio Level - 10 milliwatts
Air Speaker Audio Level - 4.0 watts
Ground Headphones Audio Level - 10 milliwatts
Ground Speaker Audio Level - 4.0 watts
Audio Tone Enable / Voice Muting - No tone or voice muting cap.
Performance Limit - Not Limited
Display Intruder Limit - 12 Intruders
Number installed Mode S Transponders - 2 Mode S Transponders
On Ground Intruders Displayed - No
Display Control - Independent left/right
Antenna Configuration - Top Dir., Bottom Dir.
Gillham Compare - Compared by Transponder
Radio Altimeter Configuration - Only Source 1 Present

TPU <esc> to continue. <PgDn> for reminder of options
    
```

- PRESS <PGDN> TO DISPLAY THE SECOND PAGE. HIGHLIGHT EACH OPTION AND MAKE THE INDICATED SELECTION. THE SCREEN IS SHOWN BELOW.

```

I/O  Modify Config Mod Strap Data  S/W Ver: 01/11, H/W Ver: 01/01

Enhanced Extended Test - Not Allowed
Pass Intruder Files - When in TA Popup

TPU <esc> to continue. <PgDn> for reminder of options
    
```

- WHEN COMPLETE, PRESS <ESC> TO FINISH THE PROGRAMMING. HIGHLIGHT YES AND PRESS ENTER TO SELECT. THE SCREEN IS SHOWN BELOW. THIS WILL SAVE THE SELECTIONS TO THE CONFIG MODULE.

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I/O Data  Diag Log  Config Mod  Intruder Data  Cable Cal  Sys Status  Misc

Write Configuration module data?
NO
YES

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TCAS II aircraft specific information
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04/14/98
    
```

WAIT FOR TPU TO REBOOT AND INITIALIZE. PRESS <ESC>, THEN SELECT MISC ON THE MAIN MENU AND PRESS ENTER. HIGHLIGHT EXIT AND PRESS ENTER TO EXIT THE PROGRAM.

REVISIONS			
SHEET	REV	DESCRIPTION	DATE APPROVED
	A	REDRAWN WITH CHANGES: 1) DRAWING COMPLETELY REDRAWN TO CORRECT CONFIGURATION. EFF: EC34178	5/15/98 COS
	B	REVISED: 1) ALTITUDE LIMIT - 48000 FT. WAS 36000 FT. 2) PERFORMANCE LIMIT - NOT LIMITED WAS LIMITED. EFF: EC34178	5/19/98 RRF
	C	REVISED: 1) CHANGED HEADPHONE AUDIO LEVELS FROM 20 mW TO 10 mW. EFF: EC41448	8/09/98 SAS

DATE	04/18/98	CESSNA AIRCRAFT COMPANY AIRCRAFT DIVISION P.O. BOX 7704 WICHITA, KANSAS 67277	
DRAWN	FITZPATRICK	TCAS II SYSTEM PROGRAMMING ALLIEDSIGNAL CAS67A	
GROUP		SIZE F50N NO. DWG NO.	
CHECK		F 71379	
SECT		SCALE: SHEET 1 OF 1	
PROJ		FABRICATE PER CES260A	
M.E.		PROCESS PER XXXXXXXXXXXXX	
OTHER		WIRE TERMINATION PER CES271E	

EC34178