

UNS-1Csp CONFIGURATION MODULE PROGRAMMING

THE UNS-1Csp CONFIGURATION MODULE MUST BE PROGRAMMED INITIALLY ON THE FIRST FMS START-UP. REFER TO FIGURE 1 FOR UNS-1Csp DISPLAY. THE PROCEDURE IS AS FOLLOWS:

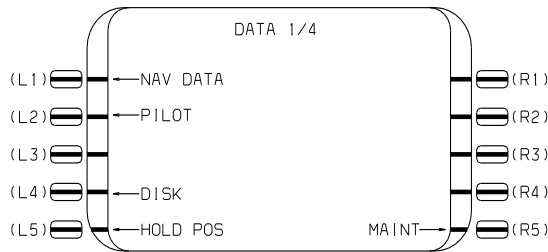


FIG. 1

- WITH POWER APPLIED TO THE AIRCRAFT, PRESS "ON/OFF DIM" KEY. FOR THE NEXT 60 SECONDS, FMS WILL GO THRU SELF-TEST MODE. WHEN COMPLETE, THE INITIALIZATION PAGE WILL BE DISPLAYED. PRESS "ACCEPT" (L5) KEY TO INITIALIZE THE UNS-1CSP. (DATE TIME, AND POSITION DO NOT MATTER.) PUSH THE "MSG" KEY AND REVIEW ALL MESSAGES. "RETURN" (R5) TO INITIALIZATION PAGE. PUSH (R1) TO HIGHLIGHT THE DATE FIELD. USING THE KEYPAD, PRESS (4)(5)(6)(7)(8)(9). PUSH **ENTER**.

PUSH **DATA** TO SHOW THE DATA 1/4 PAGE. PRESS "MAINT" (R5) TO GO TO MAINT 1/1 PAGE. PUSH "CONFIG" (L1) TO GO TO FIRST CONFIGURATION PAGE. "EDIT" (R1) MUST BE PUSHED ON THIS PAGE BEFORE YOU CAN CHANGE THE CONFIGURATION. YOU SHOULD ENTER ALL REQUIRED CHANGES BEFORE YOU PRESS "STORE". THE SYSTEM WILL THEN INITIATE RESTART IMMEDIATELY.

- PUSH "DISPLAY" (L1) TO SHOW THE DISPLAY CONFIG PAGE. PRESS "COLORS" (L3) AND CONFIGURE AS FOLLOWS:

DISPLAY CONFIG	
COLORS	PRIMUS 1000

PUSH "RETURN" (R5) TO RETURN TO CONFIG 1/2 PAGE.

- PUSH "FMS CONFIG" (L2) TO SHOW THE FIRST FMS CONFIGURATION PAGE. PRESS "FUEL" (L2) TO CONFIGURE AS FOLLOWS:

FUEL OPT 1/1	
FUEL MODE	ENABLED
EMPTY WEIGHT	6 (SEE WEIGHT & BALANCE SHEET)
* OF ENGINES	2
DISPLAY UNITS	LBS
FUEL FLOW TYPE	DC LINEAR

PUSH "FF SCALE" (R2). CONFIGURE AS FOLLOWS:

FF SCALING 1/1	
INPUT RANGE	0-5 VDC
FLOW RATE LOWER	0
FLOW RATE UPPER	2000
VOLTAGE (VDC) LOWER	0
VOLTAGE (VDC) UPPER	5.0
MIN FF	75

PUSH "RETURN" (R5) TO RETURN TO FUEL OPT PAGE.

PRESS "APU" (R3) KEY. CONFIGURE AS FOLLOWS:

APU OPT 1/1	
FUEL FLOW1	10 0
FUEL FLOW2	10 66
FUEL FLOW3	10 116
FUEL FLOW4	10 69
APU SOURCE	9 DISCRETE

PUSH "RETURN" (R5) TWICE TO RETURN TO CONFIG 1/2 PAGE.

- PRESS "PERF" (L3) KEY. CONFIGURE AS FOLLOWS:

PERF OPT 1/1	
BASIC	ENABLED
MANUAL	DISABLED
ADVANCED	DISABLED
CLIMB GRAD	500 FT/NM

PUSH "RETURN" (R5) TO RETURN TO CONFIG 1/2 PAGE.

- PRESS "VNAV" (L4) KEY. CONFIGURE AS FOLLOWS:

VNAV OPT 1/1	
VNAV MODE	ENABLED
FPA LIMIT	5.0
VDEV SCALE	NORMAL
TEMP COMP	DISABLED
VDEV STOW	ENABLED

PUSH "RETURN" (R5) TWICE TO RETURN TO CONFIG 1/2 PAGE.

- PRESS "ARINC" (L4), AND SELECT "RECEIVE" (L1) FROM ARINC OPT 1/1. CONFIGURE AS FOLLOWS:

ARINC RCV 1/1	
PORT 0	LS GPS 1 B1 (FMS*1)
	LS GPS 2 B1 (FMS*2)
PORT 1	6 UNLINK
PORT 2	11 LS GPS 2 B1 (FMS*1)
	LS GPS 1 B1 (FMS*2)
PORT 3	14 AFIS
PORT 4	13 LCS
PORT 5	R IC-600-03
PORT 6	L IC-600-03
PORT 7	5 CROSSFILL

PRESS "RETURN" (R5) TO ARINC OPT 1/1 PAGE. SELECT "TRANSMIT" (L2) AND CONFIGURE AS FOLLOWS:

ARINC XMIT 1/1	
PORT 0	IC-600
PORT 1	6 429 XFILL
PORT 2	429LS
PORT 3	429HS

PUSH "RETURN" (R5) UNTIL BACK TO CONFIG 1/2 PAGE.

- PRESS "CSDB" (L5) AND CONFIGURE AS FOLLOWS:

CSDB OPT 1/1	
RCVR 1	VOR
RCVR 2	DUAL DME
RCVR 3	NO SENSOR
RCVR 4	NO SENSOR
XMITTER 1	TUNE
XMITTER 2	NONE

PUSH "RETURN" (R5) TO RETURN TO CONFIG 1/2 PAGE.

- PRESS "FMS CONFIG" (L2) KEY AND THEN PRESS "APPR" (L5) KEY AND CONFIGURE AS FOLLOWS:

APPR OPT 1/1	
APPR MODE	ENABLED
REMOTE TUNE	ENABLED
REMOTE ARM	DISABLED
FPA LIMIT	6.0
ROLL GAINS	3X

PRESS "APPR TYPES" (L5) AND VERIFY THE FOLLOWING SELECTIONS. THESE ITEMS ARE AUTOMATICALLY SET BY THE CONFIGURATION OF THE ARINC AND CSDB PAGES. (CONTINUED ON PAGE 2)

NOTES:

- THIS DRAWING FILED IN PROCADAM.
- FOR ADDITIONAL OPTION SELECTIONS, OR ADDITIONAL INFORMATION, REFERENCE THE UNS-1CSP TECHNICAL MANUAL, PART NUMBER 34-60-08 OF: UNIVERSAL AVIONICS SYSTEMS CORP. 3260 EAST LERDO RD, TUSCON, AZ 85706.
- 63** IF WEIGHT INFORMATION IS UNAVAILABLE, ENTER A TEMPORARY WEIGHT OF 11,710 LBS. THIS CAN BE CORRECTED AT ANY TIME.
- 64** CONFIGURE AS AFIS IF INSTALLED, OTHERWISE CONFIGURE AS "NO SENSOR".
- 65** ONLY CONFIGURE ARINC RECEIVE PORT *7 FOR CROSSFILL IF THE AIRCRAFT IS EQUIPPED WITH DUAL FMS SYSTEMS. IF THE AIRCRAFT IS EQUIPPED WITH A SINGLE FMS OR PROVISIONS FOR A SECOND FMS, THEN THE PORT SHALL BE CONFIGURED AS "NO SENSOR."
- 66** ONLY CONFIGURE ARINC TRANSMIT PORT *1 FOR CROSSFILL IF THE AIRCRAFT IS EQUIPPED WITH DUAL FMS SYSTEMS. IF THE AIRCRAFT IS EQUIPPED WITH A SINGLE FMS OR PROVISIONS FOR A SECOND FMS, THEN THE PORT SHALL BE CONFIGURED AS "NONE."
- 67** IF THE OPTIONAL ADF #2 SYSTEM IS INSTALLED ON THE AIRCRAFT, THEN "ADF" SHALL BE CONFIGURED AS "2" ON THE "TUNE OPT 1/1" PAGE.
- 68** CONFIGURE AS UNLINK IF INSTALLED, OTHERWISE CONFIGURE AS "NO SENSOR".
- 69** CONFIGURE AS "MANUAL" IF MANUAL APU FUEL FLOW ENTRY IS DESIRED. IF APU IS NOT INSTALLED, CONFIGURE AS "NONE".
- 70** IF APU IS NOT INSTALLED, CONFIGURE FUEL FLOW1 THRU FUEL FLOW4 AS "0 LBS".
- 71** IF THE AIRCRAFT IS EQUIPPED WITH A SINGLE FMS OR PROVISIONS FOR A SECOND FMS, THEN THE PORT SHALL BE CONFIGURED AS "NO SENSOR".
- 72** IF APU IS NOT INSTALLED, CONFIGURE AS "NONE".
- 73** IF LORAN IS NOT INSTALLED, CONFIGURE AS "NONE".

DATE	05/05/99	CESSNA AIRCRAFT COMPANY
DRWN	FITZPATRICK	AIRCRAFT DIVISION
GROUP		P.O. BOX 7704
CHECK		WICHITA, KANSAS 67277
SECT		
PROJ		
M.E.		
OTHER		
FABRICATE PER	CESS260A	SIZE (FSON NO.)
PROCESS PER	XXXXXXXXXXXXXX	DWG NO.
WIRE TERMINATION PER	CESS211E	
		PARENT: 8623134
		SHEET 1 OF 2

UNS-1Csp CONFIGURATION MODULE PROGRAMMING (CONT)

REVISIONS			
SHEET	REV	DESCRIPTION	DATE APPROVED

APPR TYPES 1/2	
GPS	ENABLED
NDB	ENABLED
VOR	ENABLED
RNV	ENABLED
VFR	ENABLED
ILS	ADVISORY
LOC	ADVISORY
BC	ADVISORY

PRESS **[NEXT]** FOR PAGE 2.

APPR TYPES 2/2	
TAC	DISABLED
GLS	DISABLED

PUSH "RETURN" (R5) TWICE TO RETURN TO FMS CONFIG 1/2 PAGE.

8. PRESS "EFIS" (R2) AND CONFIGURE AS FOLLOWS:

EFIS OPT 1/1	
TYPE	429 ADV

PUSH "RETURN" (R5) TO RETURN TO FMS CONFIG 1/2 PAGE.

9. PRESS "NAV" (R3) AND CONFIGURE AS FOLLOWS:

NAV OPT 1/1	
A/C TYPE	FIXED WING
AC ROLL STR	DISABLED
STEERING LIMITS AT OR BELOW	37000
BANK LIMIT	28.0
STEERING LIMITS AT OR ABOVE	42000
BANK LIMIT	15.0
HDG SEL	ENRT & APPR

PUSH "RETURN" (R5) UNTIL YOU RETURN TO FMS CONFIG 1/2 PAGE.

10. PRESS "TUNE" (R4) AND CONFIGURE AS FOLLOWS:

TUNE OPT 1/1	
# COMMS	2
# NAVS	2
# ADF	1 [A]
# ATC	1

PRESS "RETURN" (R5) TO RETURN TO FMS CONFIG 1/2 PAGE.

11. PRESS **[NEXT]** BUTTON TO GO TO FMS CONFIGURATION PAGE 2. PRESS "XFILL" (L1) AND CONFIGURE AS FOLLOWS:

XFILL OPT 1/1	
MASTER	ENABLED
INIT	ENABLED
FUEL	ENABLED
FLIGHT PLAN	ENABLED
TUNE PRESETS	ENABLED
X-FILL MODE	PUSH

PUSH "RETURN" (R5) TO RETURN TO FMS CONFIG 2/2 PAGE.

12. PRESS "CABIN DISP" (L2) AND CONFIGURE AS FOLLOWS:

CABIN DISP 1/1	
CABIN DISPLAY	DISABLED

PRESS "RETURN" (R5) TO RETURN TO FMS CONFIG 2/2 PAGE.

13. CONFIGURE AND/OR VERIFY THE FOLLOWING:

FMS CONFIG 2/ 2	
PLT DB @ PWRUP	RETAINED
STRUT SW	DIGITAL
FLIGHT LOG	DISABLED
POS EST DSP	0
MAX STBY TIME	2 HRS

PRESS "RETURN" (R5) TO RETURN TO CONFIG 1/2 PAGE.

14. PRESS "DISCRETES" (L3) AND CONFIGURE AS FOLLOWS: FOR DISCRETE INPUTS (L2):

DISC IN 1/2	
DISC IN 1	[A] APU DSC 2/2 (A)
DISC IN 2	[A] APU DSC 1/2 (A)
DISC IN 3-6.8	NONE
DISC IN 7	FREQ MNGT

PRESS **[NEXT]** FOR PAGE 2.

DISC IN 2/2	
DISC IN 9-11	NONE

PRESS "RETURN" (R5) TO RETURN TO DISC OPT 1/1. FOR DISCRETE OUTPUTS (L3):

DISC OUT 1/2	
DISC OUT 1-8	NONE

PRESS **[NEXT]** FOR PAGE 2.

DISC OUT 2/2	
DISC OUT 9	FMS VALID

PRESS "RETURN" (R5) UNTIL BACK TO CONFIG 1/2 PAGE.

15. PRESS "AIR DATA" (R4) AND CONFIGURE AS FOLLOWS:

AIR DATA 1/1	
ALT DISPLAY	BOTH
A/S DISPLAY	TAS & IAS
MINIMUM TAS	50 KTS
SAT FORMAT	DIGITAL
MACH FORMAT	DIGITAL
BARO ALT FMT	DIGITAL
PRES ALT FMT	DIGITAL
A/S FORMAT	DIGITAL

PRESS "RETURN" (R5) UNTIL BACK TO CONFIG 1/2 PAGE.

16. WITH THE FIRST CONFIGURATION PAGE SHOWING, PUSH **[NEXT]** TO SHOW CONFIGURATION PAGE 2. SEE FIGURE 2. PRESS "SCN" (L1). FILL IN SCN OF THE UNIVERSAL FMS "603.X". USE (+/-) TO ENTER ".". PRESS **[ENTER]** PRESS "AIRCRAFT IDENTIFICATION" (L2). FILL IN AIRCRAFT IDENTIFICATION UP TO 24 CHARACTERS INCLUDING SPACES. USE (+/-) TO ENTER A SPACE. THE FOLLOWING FORMAT SHOULD BE FOLLOWED FOR AIRCRAFT ID:

CITATION EXCEL S/N XXXX

WHERE XXXX REPRESENTS AIRCRAFT SERIAL. TO SAVE THE NEW CONFIGURATION, PRESS "STORE" (R1). WHEN YOU PRESS (R1) TO SAVE THE NEW CONFIGURATION, THE SYSTEM WILL RESET ITSELF AND INITIATE POWER ON SELF TESTS.

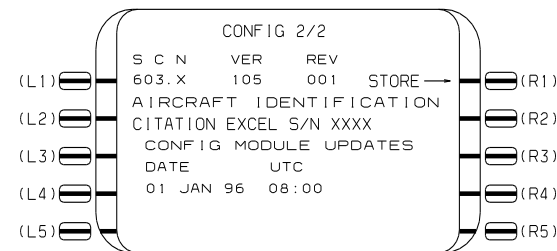


FIG. 2

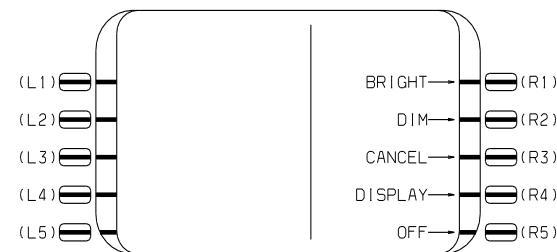


FIG. 3

TO DISPLAY THE AIRSHOW OR ADDITIONAL VIDEO INPUT ON THE UNS-1CSP, SELECT THE **ON/OFF DIM** FUNCTION KEY. THE DISPLAY SHOULD APPEAR PER FIG. 3. SELECT THE DISPLAY OPTION (R4). THE DISPLAY OPTION WINDOW WILL ALLOW YOU TO SELECT THE VIDEO OPTION. EXIT THE AUXILLARY VIDEO FUNCTION BY PRESSING ANY FUNCTION KEY.

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SECT			
PROJ		UNS-1Csp FMS SYSTEM PROGRAMMING	
M.E.			
OTHER		SIZE (FSO) NO.	DWG NO.
FABRICATE PER CES260A			
PROCESS PER XXXXXXXXXXXXX			
WIRE TERMINATION PER CES271E		SCALE:	SHEET 2 OF 2