

# UL-701 CONFIGURATION MODULE PROGRAMMING

THE UNS-1 FLIGHT MANAGEMENT SYSTEM CONFIGURATION MODULE MUST BE CONFIGURED BEFORE YOU CONFIGURE THE UNLINK. REFER TO FIGURE 1 FOR UNS-1 DISPLAY. THE PROCEDURE IS AS FOLLOWS:

NOTE: THIS DRAWING IS ONLY APPLICABLE FOR UL-701 SW VER 21.X. THE UNLINK SW VER MAY BE FOUND BY PRESSING "UNLINK" (3R) TO GO TO THE UNLINK MAIN MENU 1/2 PAGE. PRESS  TO GO TO THE MAIN MENU 2/2 PAGE. PUSH "MAINTENANCE" (4L) TO GO TO MAINT 1/2 PAGE. PRESS "VERSIONS" (3L) TO GO TO THE VERSIONS PAGE.

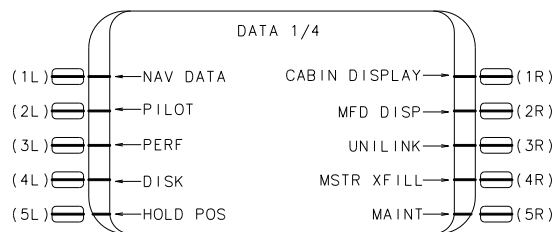


FIGURE 1

- WITH POWER APPLIED TO THE AIRCRAFT AND THE FMS OFF. PRESS THE FMS "ON/OFF DIM" KEY. FOR THE NEXT FIVE SECONDS, FMS WILL GO THRU SELF-TEST MODE. WHEN COMPLETE, THE INITIALIZATION PAGE WILL BE DISPLAYED. IF NO INITIAL POSITION IS DISPLAYED, ENTER PRESENT POSITION OF YOUR AIRCRAFT: (a) PUSH (1L), TYPE THE ID CODE FOR YOUR AIRFIELD, AND PUSH (ENTER), OR (b) TYPE YOUR LATITUDE AND LONGITUDE, AND THEN PUSH (ENTER). THE POSITION ID PAGE WILL DISPLAY.  
PUSH ACCEPT (5L) TO CONFIRM SELECTED POSITIONS DESCRIPTION. TIME, AND POSITION DO NOT MATTER.) PUSH "MSG" (1R) AND REVIEW ALL MESSAGES.  
PUSH  TO SHOW THE DATA 1/4 PAGE. PRESS "UNLINK" (3R) TO GO TO UNLINK MAIN MENU 1/2 PAGE. PUSH  TO SHOW MAIN MENU 2/2 PAGE. PUSH "MAINT" (4L) TO GO TO MAINT PAGE. PUSH "CONFIG" (1R) TO GO TO THE FIRST CONFIGURATION PAGE. PUSH LSK (1R) TO HIGHLIGHT THE DATA ENTRY FIELD. TYPE (4)(5)(6)(7)(8)(9) AND THEN PUSH . PUSH "EDIT" (1R) TO ENABLE THE STORE MODE. DO NOT PUSH "STORE" UNTIL THE CONFIGURATION IS COMPLETE.
- PUSH  TO SHOW THE SYS CONFIG 2/4 PAGE AND CONFIGURE AS FOLLOWS:

SYS CONFIG 2/4	
MEDIA ADVIS	DISABLED
MET DATA	DISABLED
FLIGHT NO	DISABLED
0001 TIMES	ENABLED

PUSH "AIRCRAFT" (2R) AND CNFIGE AS FOLLOWS:

A/C CONFIG	
TYPE	C56X
REG NO	<input type="button" value="2"/> (SEE AIRCRAFT REGISTRATION)
AIRLINE ID	<input type="button" value="12"/> UV/UVA
FIN NO	- - -

PUSH "RETURN" (5R) TO RETURN TO THE SYSTEM CONFIGURATION 2/4 PAGE. PUSH "CLEARANCES" (3R) TO DISPLAY THE CLEARANCE PAGE AND CONFIGURE AS FOLLOWS:

CLEARANCES	
OCEANIC	ENABLED
PUSHBACK	ENABLED
PREDEPARTURE	ENABLED
TAXI	ENABLED

PUSH "RETURN" (5R) TO RETURN TO THE SYS CONFIG 2/4 PAGE. PUSH "ALERT CONFIG" (4R) TO DISPLAY ALERT CONFIG PAGE AND CONFIGURE AS FOLLOWS:

ALERT CONFIG	
NEW MSG DISC DURATION:	
ALERT1	100 MS
ALERT2	100 MS
CHIME1	100 MS
CHIME2	100 MS
INHIB ON GROUND	>50 KTS
INHIB ALT	<10000 FT
ALT TYPE	BARO
AFTER OFF	5 MIN

PUSH "RETURN" (5R) TO RETURN TO THE SYS CONFIG 2/4 PAGE. PUSH  TO DISPLAY SYS CONFIG 3/4 PAGE AND CONFIGURE AS FOLLOWS:

SYS CONFIG 3/4	
DELAY MSG TX	00 MINS
GROUND DELAY	10 MINS
SUPP ADDRESS	ATSOOXA

- PUSH "UNILINK MENU" (5L) TO GO TO MAIN MENU PAGE. PUSH  ON FMS TO DISPLAY UNILINK MENU 2/2 PAGE. PUSH "MAINTENANCE" (4L) TO DISPLAY MAINTENANCE 1/2 PAGE. PUSH "CONFIG" (1R) TO DISPLAY SYS CONFIG 1/4 PAGE. PUSH "I/O CONFIG" (1L) TO DISPLAY I/O CONFIG PAGE. PUSH "DISCRETE IN" (1L) AND CONFIGURATE AS FOLLOWS:

DISC IN 1/6	
DISC IN 1-3	NOT USED
ACTIVE STATE 1-3	GROUND

PUSH  TO GO TO DISC IN 2/6.

DISC IN 2/6	
DISC IN 4-6	NOT USED
ACTIVE STATE 4-6	GROUND

PUSH  TO GO TO DISC IN 3/6.

DISC IN 3/6	
DISC IN 7-9	NOT USED
ACTIVE STATE 7-9	GROUND

PUSH  TO GO TO DISC IN 4/6.

DISC IN 4/6	
DISC IN 10-12	NOT USED
ACTIVE STATE 10-12	GROUND

PUSH  TO GO TO DISC IN 5/6.

DISC IN 5/6	
DISC IN 13-15	NOT USED
ACTIVE STATE 13-15	GROUND

PUSH  TO GO TO DISC IN 6/6.

DISC IN 6/6	
DISC IN 16	NOT USED
ACTIVE STATE 16	GROUND

REVISIONS			
SHEET	REV	DESCRIPTION	DATE APPROVED
GEN	A	REDRAWN WITH CHANGES: 1) COMPLETELY REDRAWN. EFF: EC 53884	6/25/04 CGS
1	B	BY REVISION: 1) UPDATED FLAGNOTE 7. WAS: ... FIELD IS CONFIGURED ... NOW: ... FIELD IS NOT CONFIGURED ... EFF: EC 56962	7/12/05 CGS
1	C	BY REVISION: 1) UPDATED FLAGNOTE 12. WAS: ... SERVICES: GRAPHICAL DATA SERVICES WILL BE INHIBITED; NOW: ... SERVICES: CONFIGURE AS "NA" - IF ARINC WILL BE USED TO PROVIDE TEXT DATA SERVICES. IN EITHER CASE, GRAPHICAL DATA SERVICES WILL NOT BE AVAILABLE. EFF: EC 56962	10/19/05 CGS

PUSH "RETURN" (5R) TO RETURN TO THE I/O CONFIG PAGE. PUSH "DISCRETE OUT" (2L) TO GO TO THE DISC OUT 1/6 PAGE AND CONFIGURE AS FOLLOWS:

DISC OUT 1/6	
DISC OUT 1	NOT USED
DISC OUT 2	<input type="button" value="5"/> NOT USED
DISC OUT 3	NOT USED
ACTIVE STATE 1	GROUND
ACTIVE STATE 2	GROUND
ACTIVE STATE 2	GROUND

CONFIGURATION CONTINUED ON PAGE 2.

## NOTES:

- THIS DRAWING FILED IN CCD.
- REFER TO THE AIRCRAFT AIRWORTHINESS CERTIFICATE FOR THE "AIRCRAFT REGISTRATION NUMBER".
- SELECT THE DIGITAL PHONE INSTALLED-EITHER MAGNASTAR C2000, FLITELINE 496/800, T&T AERO M, T&T AERO I, OR NONE.
- CONFIGURE AS SHOWN FOR A DUAL UNIVERSAL FMS INSTALLATION. FOR A SINGLE UNIVERSAL FMS INSTALLATION THESE SHOULD BE SET TO "NOT USED".
- IF THE AIRCRAFT IS EQUIPPED WITH AUXILIARY VHF PORTS (WHICH SHARE THE UNLINK VHF ANTENNA), CONFIGURE AS (DATA ANNUN).  
FOR ADDITIONAL OPTION SELECTIONS, OR ADDITIONAL INFORMATION, REFERENCE THE UL-701 TECHNICAL MANUAL. PART NUMBER 23-20-04: UNIVERSAL AVIONICS SYSTEMS CORP. 3260 EAST LERDO RD, TUSCON, AZ 85706.
- IF THE AIRCRAFT IS NOT EQUIPPED WITH A UNS-1ESP/CSP (w/Video) OR THE "AIRCRAFT ID" FIELD IS NOT CONFIGURED AS "UV/UVA", CONFIGURE AS "DISABLED".
- IF AIRCRAFT EQUIPPED WITH AIRCELL AT.02, AGT.02, OR AST-3500 SERIES TELEPHONE, CONFIGURE MIN BAUD RATE TO 2400 AND MAX BAUD RATE TO 9600. FOR AIRCELL ST-3100 TELEPHONE, CONFIGURE BAUD RATE TO 2400 ONLY.
- FOR AIRCRAFT EQUIPPED WITH MAGNASTAR C2000 (WITH ARTC 4.0 A, OR LATER SW), CONFIGURE MIN BAUD RATE TO 4800 AND MAX BAUD RATE TO 9600.
- CONFIGURE AS SHOWN IF AIRCRAFT IS EQUIPPED WITH AIRCELL ST-3100 OR AST-3500. CONFIGURE AS "AERO-M" IF EQUIPPED WITH AERO-M SATCOM. CONFIGURE AS AERO-I IF EQUIPPED WITH AERO-I SATCOM. OTHERWISE PROGRAM AS "NOT USED".
- CONFIGURE TO "CDU AND MFD" IF MFD-640 IS INSTALLED. CONFIGURE AS "GS/---" IF GLOBAL DATA CENTER WILL BE USED TO PROVIDE TEXT DATA SERVICES. CONFIGURE AS "NA/---" IF ARINC WILL BE USED TO PROVIDE TEXT DATA SERVICES. IN EITHER CASE, GRAPHICAL DATA SERVICES WILL NOT BE AVAILABLE.
- CONFIGURE TO "NONE" IF FMS#2 IS NOT INSTALLED.
- CAN BE ENABLED AT CUSTOMER REQUEST.
- IF AIRCRAFT IS EQUIPPED WITH AIRCELL ST-3100, CONFIGURE AS IRIDIUM.
- IF AIRCRAFT IS EQUIPPED WITH AIRCELL AST-3500, CONFIGURE AS AIRCELL/IRIDIUM.
- IF AIRCRAFT IS EQUIPPED WITH MAGNASTAR, CONFIGURE AS MAGNASTAR C2000.
- IF AIRCRAFT IS EQUIPPED WITH AERO-M SATCOM, CONFIGURE AS T-T AERO-M.
- IF AIRCRAFT IS EQUIPPED WITH AERO-I SATCOM, CONFIGURE AS T-T AERO-I.
- IF THE AIRCRAFT IS NOT EQUIPPED WITH A UNS-1ESP/CSP (w/Video) CONFIGURE SERIAL DEVICES PORT 3 TO "NOT USED".

DATE	02/10/04	CESSNA AIRCRAFT COMPANY
DRAWN	M. NGUYEN	AIRCRAFT DIVISION
CHECK		P.O. BOX 7704
GROUP		WICHITA, KANSAS 67277
SECT		
PROJ		UNLINK UL-701
M.E.		CONFIGURATION
OTHER		PROCEDURE
FABRICATE PER CSANGDS	SIZE F50M NO.	DWG NO.
PROCESS PER XXXXXXXXXXXX	<input type="checkbox"/> 71379	8623245
THE TERMINATION PER 25222222	SCALE:	SHEET 1 OF 3

# UL-701 CONFIGURATION MODULE PROGRAMMING (CONT)

PUSH  TO GO TO DISC OUT 2/6.

DISC OUT 2/6	
DISC OUT 4-6	NOT USED
ACTIVE STATE 4-6	GROUND

PUSH  TO GO TO DISC OUT 3/6.

DISC OUT 3/6	
DISC OUT 7-9	NOT USED
ACTIVE STATE 7-9	GROUND

PUSH  TO GO TO DISC OUT 4/6.

DISC OUT 4/6	
DISC OUT 10-12	NOT USED
ACTIVE STATE 10-12	GROUND

PUSH  TO GO TO DISC OUT 5/6.

DISC OUT 5/6	
DISC OUT 13-15	NOT USED
ACTIVE STATE 13-15	GROUND

PUSH  TO GO TO DISC OUT 6/6.

DISC OUT 6/6	
DISC OUT 16	NOT USED
ACTIVE STATE 16	GROUND

PUSH "RETURN" (5R) TO GO TO I/O CONFIG PAGE.  
PRESS "ARINC RECEIVE" (3L) TO SHOW ARINC RECEIVE 1/3 PAGE AND CONFIGURE AS FOLLOWS:

ARINC RECEIVE 1/3	
PORT 1	FMS/CDU1
PORT 2	<input type="button" value="4"/> FMS/CDU2
PORT 3	NOT USED
PORT 4	NOT USED
PORT 5	NOT USED
PORT 6	NOT USED

PRESS  TO GO TO ARINC RECEIVE 2/3 PAGE.

ARINC RECEIVE 2/3	
PORT 7-12	NOT USED

PRESS  TO GO TO ARINC RECEIVE 3/3 PAGE.

ARINC RECEIVE 3/3	
PORT 13-14	NOT USED

PUSH "RETURN" (5R) TO GO TO I/O CONFIG PAGE.  
PRESS "ARINC TRANSMIT" (4L) TO SHOW ARINC TRANSMIT 1/2 PAGE AND CONFIGURE AS FOLLOWS:

ARINC TRANSMIT 1/2	
SEL SPEEDS	
PORT 1	LOW
PORT 2	<input type="button" value="4"/> LOW
PORT 3	LOW
SEL DEVICES	
PORT 1	FMS 1
PORT 2	<input type="button" value="4"/> FMS2
PORT 3	NO DEVICE SELECTED

PRESS  FOR PAGE 2.

ARINC TRANSMIT 2/2	
SEL SPEEDS	
PORT 4	LOW
SEL DEVICES	
PORT 4	NO DEVICE SELECTED

PRESS "RETURN" (5R) TO GO TO I/O CONFIG PAGE.  
PRESS "SERIAL" (1R) TO SHOW SERIAL CONFIG 1/2 PAGE AND CONFIGURE AS FOLLOWS:

SERIAL CONFIG 1/2	
PORT 1	<input type="button" value="10"/> AIRCELL/IRID
PORT 2	NOT USED
PORT 3	<input type="button" value="16"/> IMAGE BUS
PORT 4	NOT USED
PORT 5	NOT USED
PORT 6	NOT USED

PRESS  FOR PAGE 2.

SERIAL CONFIG 2/2	
PORT 7	CSDB TUNE
PORT 8	NOT USED

PRESS "RETURN" (5R) TO RETURN TO I/O CONFIG PAGE.  
PRESS "GRAPHICS" (2R) TO GO TO GRAPHICS SETUP AND CONFIGURE AS FOLLOWS:

GRAPHICS SETUP	
BAUD RATE	19.2 KBPS
CDU 1 GRAPHICS DISP ON	<input type="button" value="11"/> CDU ONLY
CDU 2 GRAPHICS DISP ON	<input type="button" value="13"/> CDU ONLY
CDU 3 GRAPHICS DISP ON	NONE

4. PRESS "RETURN" (5R) TWICE TO GO TO SYS CONFIG 1/4 PAGE.  
PRESS "VHF COMM" (2L) TO GO TO VHF CONFIG 1/2 PAGE.  
PRESS "DSP SETUP" (1L) TO GO TO DSP SETUP PAGE AND CONFIGURE AS FOLLOWS:

DSP SETUP	
ARINC	ON
ARINC EUROPE	ON
SITA	ON
SITA N AMERICA	ON
AVICOM	ON

PRESS "RETURN" (5R) TO RETURN TO VHF CONFIG 1/2 PAGE AND CONFIGURE AS FOLLOWS:

VHF CONFIG 1/2	
PREFERRED DSP	NONE
CONTACT TIMER	ENABLED
TRACKER TIMER	DISABLED

PRESS  FOR PAGE 2.

VHF CONFIG 2/2	
RADIO TYPE	INTERNAL
RADIO IDENT	COMM 3
RADIO ACCESS	DEDICATED
VOICE FREQ CONTROL	DISABLE

PRESS "RETURN" (5R) TO RETURN TO SYS CONFIG 1/4 PAGE.  
PRESS "SAT" (3L) TO GO TO SAT CONFIG PAGE AND CONFIGURE AS FOLLOWS:

SAT CONFIG	
TRACK TIMER	DISABLED
AUTO RETURN	DISABLED

PRESS "RETURN" (5R) TO RETURN TO SYS CONFIG 1/4 PAGE.  
PRESS "PRIORITY" (4L) TO GO TO COMM PRIORITY PAGE AND CONFIGURE AS FOLLOWS:

COMM PRIORITY	
NORMAL	
1ST	VHF
2ND	TELEPHONE
3RD	NONE
ALTERNATE	
1ST	NONE
2ND	NONE
3RD	NONE

PRESS "RETURN" (5R) TO RETURN TO SYS CONFIG 1/4 PAGE.  
PRESS "TELEPHONE" (3L) TO GO TO TEL CONFIG PAGE AND CONFIGURE AS FOLLOWS:

TEL CONFIG 1/2	
AIRPHONE	<input type="button" value="15"/> MAGNASTAR C2000, T&T AERO I, T&T AERO M, IRIDIUM, AIRCELL, AIRCELL/IRIDIUM, OR NONE
TEL ACCESS NUMBER	<input type="button" value="7"/> 17133782777 (UNIVERSAL WEATHER)(DEFAULT)
WX MAPS	ENABLED
SUSP MSG	ENABLED
BAUD	
MIN	<input type="button" value="9"/> <input type="button" value="8"/> 4800
MAX	<input type="button" value="9"/> <input type="button" value="8"/> 4800

CONFIGURATION CONTINUED ON PAGE 3.

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REVISIONS			
SHEET	REV	DESCRIPTION	DATE APPROVED

UL-701 CONFIGURATION MODULE PROGRAMMING (CONT)

PUSH  NEXT TO GO TO TEL CONFIG 2/2 PAGE AND CONFIGURE AS FOLLOWS:

TEL CONFIG 2/2	
REDIAL PAUSE	30 SEC
DIAL ATTEMPTS	6
AUTO-DELAY	5MIN

PUSH "RETURN" (5R) TO RETURN TO SYS CONFIG 1/4 PAGE. PRESS "POS REPORT" (3R) TO GO TO POS REP CONFIG PAGE AND CONFIGURE AS FOLLOWS:

POS REP CONFIG	
IN AIR	<input type="checkbox"/> DISABLED
ON GROUND	<input type="checkbox"/> DISABLED
IN AIR DEFAULT	OFF
AIR INTV	15MINS
GROUND INTV	60MINS

PUSH "STORE" (1R) TWICE TO STORE UNILINK OPTIONS.

8623245 P.C

DATE	02/10/04	CESSNA AIRCRAFT COMPANY	
DRAWN	M. NGUYEN	AIRCRAFT DIVISION	
GROUP		P.O. BOX 7704	
CHECK		WICHITA, KANSAS 67277	
SECT		UNILINK UL-701 CONFIGURATION PROCEDURE	
PROJ			
M.E.			
OTHER			
OTHER	SEE S.G. SHEET	SIZE	FSCW NO.
FABRICATE PER	CSAMDRS	71379	8623245
PROCESS PER	XXXXXXXXXX	SCALE:	
WIRE TERMINATION PER	DE52716		SHEET 3 OF 3