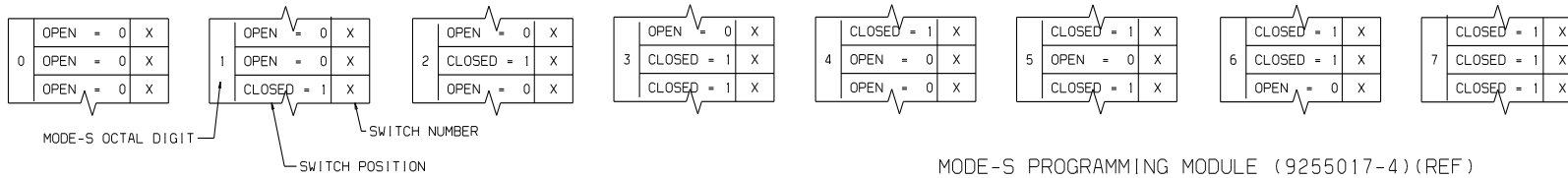


SWITCH SETTINGS FOR OCTAL CODES:
(OCTAL TO BINARY CONVERSION)



MODE-S PROGRAMMING MODULE (9255017-4) (REF)

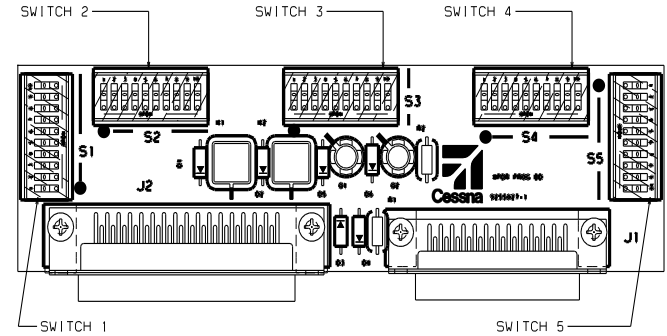


TABLE 2. BINARY TO HEXADECIMAL CONVERSION

		HEXADECIMAL VALUE															
		0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
MSB	BIT 3	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	BIT 2	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
LSB	BIT 1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
	BIT 0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1

EXAMPLE

OCTAL CODE: 16402357
 BINARY CODE: 0011 1010 0000 0100 1110 1111
 HEX CODE: 3A4EF

HEX	BIT 3	BIT 2	BIT 1	BIT 0	SWITCH POSITION	SWITCH STATE	HEX
N/A	N/A	1			1	OPEN	7
N/A	N/A	2			1	OPEN	8
N/A	N/A	3			3	CLOSED	9
N/A	N/A	4				CLOSED	10
N/A	N/A	5			6	CLOSED	1
N/A	N/A	6			A	OPEN	2
N/A	N/A	7				CLOSED	3
N/A	N/A	8			4	OPEN	4
N/A	N/A	9				OPEN	5
N/A	N/A	10			0	OPEN	6
N/A	N/A	1			0	OPEN	7
N/A	N/A	2				OPEN	8
N/A	N/A	3				OPEN	9
N/A	N/A	4			2	CLOSED	10
N/A	N/A	5				OPEN	1
N/A	N/A	6				OPEN	2
N/A	N/A	7			3	CLOSED	3
N/A	N/A	8				CLOSED	4
N/A	N/A	9			E	CLOSED	5
N/A	N/A	10			5	OPEN	6
N/A	N/A	1				CLOSED	7
N/A	N/A	2				CLOSED	8
N/A	N/A	3			7	CLOSED	9
N/A	N/A	4				CLOSED	10

(CLOSED SWITCH IS EQUAL TO BINARY 1)

HEX	BIT 3	BIT 2	BIT 1	BIT 0	SWITCH POSITION	SWITCH STATE	HEX
N/A	N/A	1					7
N/A	N/A	2					8
N/A	N/A	3					9
N/A	N/A	4					10
N/A	N/A	5			1		1
N/A	N/A	6			N/A		2
N/A	N/A	7					3
N/A	N/A	8					4
N/A	N/A	9					5
N/A	N/A	10					6
N/A	N/A	1					7
N/A	N/A	2					8
N/A	N/A	3					9
N/A	N/A	4					10

TABLE 1

MODE-S ADDRESS PROGRAMMING

- THIS DRAWING FILED IN CDD.
- OBTAIN MODE-S CODE FROM SALES ORDER.
- RECORD THE MODE-S OCTAL CODE WHERE IDENTIFIED IN TABLE 1.
- RECORD THE BINARY SWITCH REPRESENTATIONS FOR EACH DIGIT OF THE MODE-S OCTAL CODE IN TABLE 1. SWITCH SETTINGS ARE ILLUSTRATED AT THE TOP OF THIS PAGE. DETERMINE THE HEXADECIMAL CONVERSION OF EACH FOUR BIT SEQUENCE BY REFERRING TO TABLE 2. RECORD THE HEX CHARACTERS IN TABLE 1.
- SET SWITCHES IN PROGRAMMING MODULE TO AGREE WITH TABLE 1. SWITCHES 1, 2, & DIP SWITCHES 1 - 6 OF SWITCH 3 ARE NOT USED FOR C406-2 ELT MODE-S PROGRAMMING AND SHOULD BE SET IN THE OPEN POSITION.
- THE ELT PROGRAMMING MUST BE VERIFIED PRIOR TO TRANSFERRING THE 15 DIGIT HEX ID INFORMATION TO THE ELT PRODUCT LABEL (AFFIXED TO THE ELT). ENSURE THAT THE EQUIPMENT IS PROPERLY INSTALLED AND WIRED. THEN PERFORM STEPS 1 - 6.
 - CONNECT THE SRSAT TESTSET (ARTEX P/N 453-0131, (REF)) TO THE 406 MHZ ANTENNA OUTPUT OF THE ELT THROUGH 30 DB OF ATTENUATION.
 - CONNECT A 50Ω DUMMY LOAD TO THE 121.5/243 MHZ ANTENNA OUTPUT OF THE ELT FOR THE DURATION OF TESTING.
 - TURN AIRCRAFT BATTERY SWITCH "ON".
 - TURN AIRCRAFT AVIONICS POWER SWITCH "ON".
 - TURN FMS 1 "ON" & WAIT FOR A VALID GPS POSITION.
 - TURN ELT "ON" & WAIT FOR THE SRSAT TESTSET TO RECEIVE A VALID MESSAGE (MINIMUM 15 SECONDS).
- AFTER TURNING THE ELT "OFF", REVIEW THE PAGES OF THE MESSAGE AS RECEIVED ON THE SRSAT TESTSET. LOCATE AND RECORD THE FOLLOWING DATA:
 - FREQUENCY
 - 3 DIGIT COUNTRY CODE & COUNTRY
 - HEX ID
 - AIRCRAFT #
 - LATITUDE & LONGITUDE
- VERIFY THAT THE AIRCRAFT # RECEIVED ON THE SRSAT TEST SET MATCHES THE AIRCRAFT # RECORDED IN TABLE 1.
- RECORD THE COUNTRY & 3 DIGIT COUNTRY CODE ON THE ELT PRODUCT LABEL, P/N 591-5000 (REF), WHICH IS AFFIXED TO THE TOP OF THE ELT.
- RECORD THE 15 DIGIT HEX ID CODE ON P/N 591-0999 (REF) LABEL STOCK AND AFFIX TO THE ELT PRODUCT LABEL (COVERING FACTORY DEFAULT HEX ID CODE). P/N 591-0999 (REF) IS PART OF ELT INSTL KIT P/N 455-7421 (REF). REFER TO THE RESPECTIVE C406-2 ELT CABLE ASSEMBLY FOR HARD PART CALLOUT.

DATE: 7/15/99	CESSNA AIRCRAFT COMPANY
GROUP: GARY SCHWEITZER	AIRCRAFT DIVISION
CHECK: _____	P.O. BOX 7704
SECT: _____	WICHITA, KANSAS 67277
PRD: _____	
M.E.: _____	
OTHER: _____	
FABRICATE PER: CESS260	SIZE (FSON NO.): _____
PROCESS PER: XXXXXXXXXXXXX	DWG NO.: _____
WIRE TERMINATION PER: CESS216	SCALE: 0 PARENT: 8603006 SHEET 1 OF 2

