SWITCH SETTINGS FOR OCTAL CODES:

0	OPEN	X
	OPEN	X
	OPEN	X

1	OPEN	X
	OPEN	X
	CLOSED	X

2	OPEN	X
	CLOSED	X
	OPEN	X

3	OPEN	X
	CLOSED	X
	CLOSED	X

4	CLOSED	X
	OPEN	X
	OPEN	X

5	CLOSED	X
	OPEN	X
	CLOSED	X

6	CLOSED	X
	CLOSED	X
	OPEN	X

7	CLOSED	X
	CLOSED	X
	CLOSED	X

MODE-S OCTAL DIGIT

SWITCH NUMBER

SWITCH POSITION

EXAMPLE

MODE S OCTAL CODE 16402357

	XPDR#1				XPDR#2			
								SWITCH 3
1	OPEN	1	SWITCH 1	1	OPEN	7		
	OPEN	2			OPEN	8		
	CLOSED	3			CLOSED	9		
6	CLOSED	4		6	CLOSED	10		
	CLOSED	5			CLOSED	1		SWITCH 4
	OPEN	6			OPEN	2		
4	CLOSED	7		4	CLOSED	3		
	OPEN	8			OPEN	4		
	OPEN	9			OPEN	5		
0	OPEN	10		0	OPEN	6		
	OPEN	1	SWITCH 2		OPEN	7		
	OPEN	2			OPEN	8		
2	OPEN	3		2	OPEN	9		
	CLOSED	4			CLOSED	10		
	OPEN	5			OPEN	1		SWITCH 5
3	OPEN	6		3	OPEN	2		
	CLOSED	7			CLOSED	3		
	CLOSED	8			CLOSED	4		
5	CLOSED	9		5	CLOSED	5		
	OPEN	10			OPEN	6		
	CLOSED	1	SWITCH 3		CLOSED	7		
7	CLOSED	2		7	CLOSED	8		
	CLOSED	3			CLOSED	9		
	CLOSED	4			CLOSED	10		

MODE-S OCTAL CODE (2)

SET SWITCHES (3)

(CLOSED SWITCH IS EQUAL TO BINARY 1)

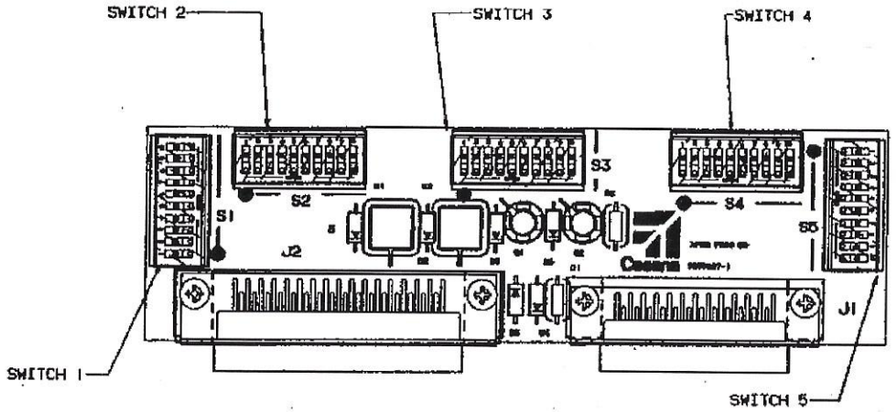
MOST SIGNIGICANT BIT

LEAST SIGNIGICANT BIT

XPDR#1			XPDR#2		
	1	SWITCH 1		7	SWITCH 3
	2			8	
	3			9	
	4			10	
	5			1	SWITCH 4
	6			2	
	7			3	
	8			4	
	9			5	
	10			6	
	1	SWITCH 2		7	
	2			8	
	3			9	
	4			10	
	5			1	SWITCH 5
	6			2	
	7			3	
	8			4	
	9			5	
	10			6	
	1	SWITCH 3		7	
	2			8	
	3			9	
	4			10	

TABLE 1

COLLINS TRANSPONDER PROGRAMMING MODULE (9255017-4)



TRANSPONDER MODE-S ADDRESS PROGRAMMING

1) OBTAIN MODE-S CODE FROM SALES ORDER
2) WRITE MODE-S OCTAL CODE WHERE IDENTIFIED IN TABLE 1 FOR BOTH TRANSPONDERS
3) WRITE SWITCH SETTINGS FOR EACH DIGIT OF THE MODE-S OCTAL CODE IN TABLE 1. SWITCH SETTINGS ARE ILLUSTRATED AT THE TOP OF THIS DRAWING.
4) SET SWITCHES IN PROGRAMMING MODULE TO AGREE WITH TABLE 1.
5) USE MODE-S TRANSPONDER TESTER TO VERIFY CODE.
6) THIS DRAWING FILED IN CADAM FILE: RLSD,E96

DATE	09-24-91
DRAWN	F.RICHARDSON
GROUP	
CHECK	
REJECT	
PROJ	

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AIRCRAFT SYSTEMS PROGRAMMING

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