

DX-10-404

TABLE 6-3
 SQUARE ROOT - ILLUSTRATIVE PROBLEM
 Problem: Find $\sqrt{P\ 0\ 081\ 360\ 400}$ Round answer off to 4 places. No interlock

Period	Add. Time	Numerator (Numerator) Accumulator		Denominator (2 root) Accumulator		Shift Accumulator	
		Receives	Stores after receiving	Receives	Stores after receiving	Receives	Stores after receiving
I	1	P 0 081 360 400	P 0 081 360 400				
	2						
	3						
	4			P 0 100 000 000	P 0 100 000 000		
II	5	M 9 900 000 000	M 9 981 360 400				
	6			P 0 200 000 000	P 0 300 000 000		
	7			M 9 900 000 000	P 0 200 000 000	M 9 813 604 000	M 9 813 604 000
	8	M 9 813 604 000	M 9 813 604 000	M 9 990 000 000	P 0 190 000 000		
shift	9	P 0 190 000 000	P 0 003 604 000				
	10			M 9 980 000 000	P 0 170 000 000		
	11			P 0 010 000 000	P 0 180 000 000	P 0 036 040 000	P 0 036 040 000
	12	P 0 036 040 000	P 0 036 040 000	P 0 001 000 000	P 0 181 000 000		
III	13	M 9 819 000 000	M 9 855 040 000				
	14			P 0 002 000 000	P 0 183 000 000		
	15			M 9 999 000 000	P 0 182 000 000	M 8 550 400 000	M 8 550 400 000
	16	M 8 550 400 000	M 8 550 400 000				
IV	17	P 0 182 000 000	M 8 732 400 000				
	18	P 0 182 000 000	M 8 914 400 000				
	19	P 0 182 000 000	M 9 096 400 000				
	20	P 0 182 000 000	M 9 278 400 000				
	21	P 0 182 000 000	M 9 460 400 000				
	22						
23			M 9 995 000 000	P 0 180 000 000			
24							
25							
26							

Program output pulso and answer display signal is transmitted.
 Answer is transmitted from denominator accumulator.