



$$\frac{500\times10^{6}}{N} = 2\times10^{3}$$

$$\therefore N = \frac{500\times0^{6}}{2\times10^{3}} = 250\times10^{3}$$

Verifyif TOUTBO Can hold rup to that Number

PP1117

32.4 SPECIAL FUNCTION REGISTERS

32.4.1 REGISTER MAP

	Descrip	R/W	Offset	Register	
	Timer Configuration Registe two 8-bit Prescaler and Dea	R/W	0x7F006000	TCFG0	
	Timer Configuration Registe and DMA Mode Select Bit	R/W	0x7F006004	TCFG1	١
-37	Timer Control Register	R/W	0x7F006008	TCON	
- 10	Timer 0 Count Buffer Regis	R/W	0x7F00600C	TCNTB0	
	Timer 0 Compare Buffer Re	R/W	0x7F006010	TCMPB0	
	Timer 0 Count Observation	R	0x7F006014	TCNTO0	
	Timer 1 Count Buffer Regis	R/W	0x7F006018	TCNTB1	
	- 10 5 " 5			TO: 155.1	

32.4.1.4 TCNTB0 (Timer0 Counter Register)

Register	Offset	R/W	
TCNTB0	0x7F00600C	R/W	Timer 0 Count I

Conclusion: 5-Steps oferntion of PWM. Can be deteribed as (!) Count By N with Egn (4), 783. And deposit

N into TCNTBp; (2)

Deposit Count Minto TCmprzp,

Where M=(D.C.) X N
... (5)

(3) The Down Counting will

decrement Tont By's count

by I at a time, And a

Comparison is made to Tomp By

'If Matched, then trigger the Dulpat

to "I", Down Counting continues

till the Count in Tont By = 0

One period is veached. Then

Tepeat this process.

Feb. 21. 27.

Design Implementation technique
to produce from = 1000 Hz, to

Prive Stepper motor Controller,
in addition, Duty Cock is 30%.

Find: (1) TCNTBn=? (2) Find TCME

Sol First. find the Gunts N Based on

the given condition.

TONTBN

SOX10 = from.

N= SOX10 = SX10 - DHex | from 1000

TCNTH A

