CAN Filter Calculation for LAWICEL CANUSB & CAN232 Standard ID (11bit) - Dual Filter Mode

Input:																					
Filter	1	ID.10	ID.9	ID.8	ID.7	ID.6	ID.5	ID.4	ID.3	ID.2	ID.1	ID.0	RTR	DB.7	DB.6	DB.5	DB.4	DB.3	DB.2	DB.1	DB.0
		1	1	0	0	0	0	0	0	0	0	1	Х	Х	Х	Х	Х	Х	Х	Х	Х
Filter	2	ID.10	ID.9	ID.8	ID.7	ID.6	ID.5	ID.4	ID.3	ID.2	ID.1	ID.0	RTR								
		1	1	0	0	0	0	0	0	0	0	1	Х								
														-							

Result:									
	в.7	в.б	в.5	в.4	в.3	в.2	в.1	в.0	HEX
ACR0	1	1	0	0	0	0	0	0	C0
AMR0	0	0	0	0	0	0	0	0	0
	_								
	в.7	в.б	в.5	в.4	в.3	в.2	в.1	в.0	HEX
ACR1	0	0	1	1	1	1	1	1	3F
AMR1	0	0	0	1	1	1	1	1	1F
	в.7	в.б	в.5	в.4	в.3	в.2	в.1	в.0	HEX
ACR2	1	1	0	0	0	0	0	0	C0
AMR2	0	0	0	0	0	0	0	0	0
	в.7	в.б	в.5	в.4	в.3	в.2	в.1	в.0	HEX
ACR3	0	0	1	1	1	1	1	1	3F
AMR 3	0	0	0	1	1	1	1	1	1F
	32bit	Value		ASCII	comma	nd			
ACR	0x3FC)3FC0		MC03F0	C03F[C	R]			
AMR	0x1F001F00 m001f001f[CR]								

This demo shows how to set up filters so that only ID=0x601 passes through and all others are blocked. Note that both filters must be set otherwise ID's passes through the other.

Rules for bit calculation							
Input:							
0 =	Bit must be set to zero						
1 =	Bit must be set to one						
X =	Bit is don't care						
Output:							
0->	ACRn = 0 and $AMRn = 0$						
1->	ACRn = 1 and $AMRn = 0$						
X->	ACRn = 1 and $AMRn = 1$						