

Path: c:\directsoft5\projects\wtt revised1.prj  
Save Date: 09/20/11 14:43:22  
Creation Date: 09/15/11 10:51:30  
PLC Type: 06  
Class ID: DirectLogic 06 Series  
Link Name: 06 KSeq

When any Push Button on the remote is pressed (1-8), the corresponding plc input activates an upcounter with an associated function  
 Pressing a button increases that counter by increments of 1, starting from 0 (reset point)  
 The counter counts to 2 and resets to 0, having only 2 states, 0 or 1 (off/on)

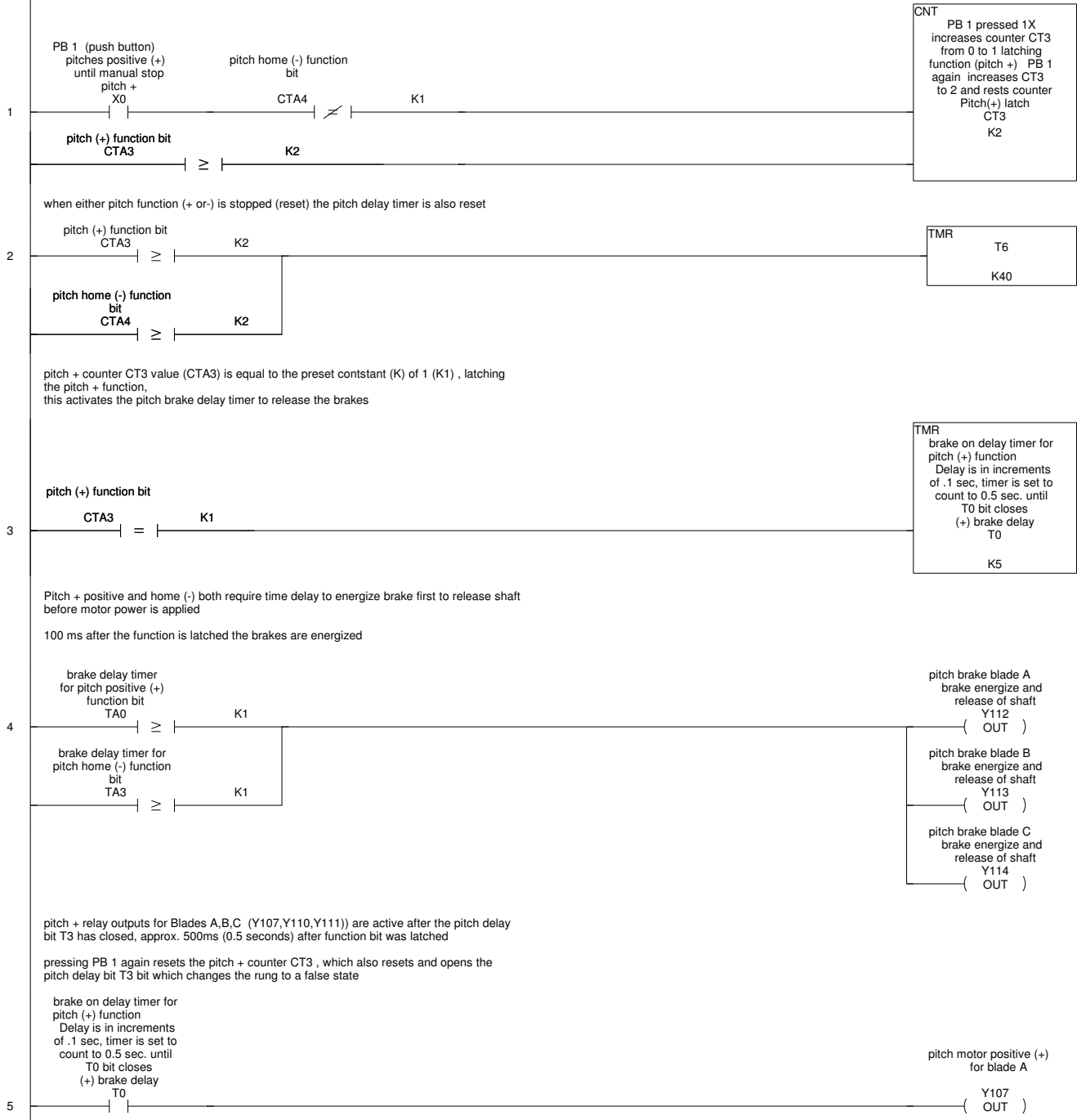
If any counter value is equal to 1 (K1), the corresponding function is on/latched/activated

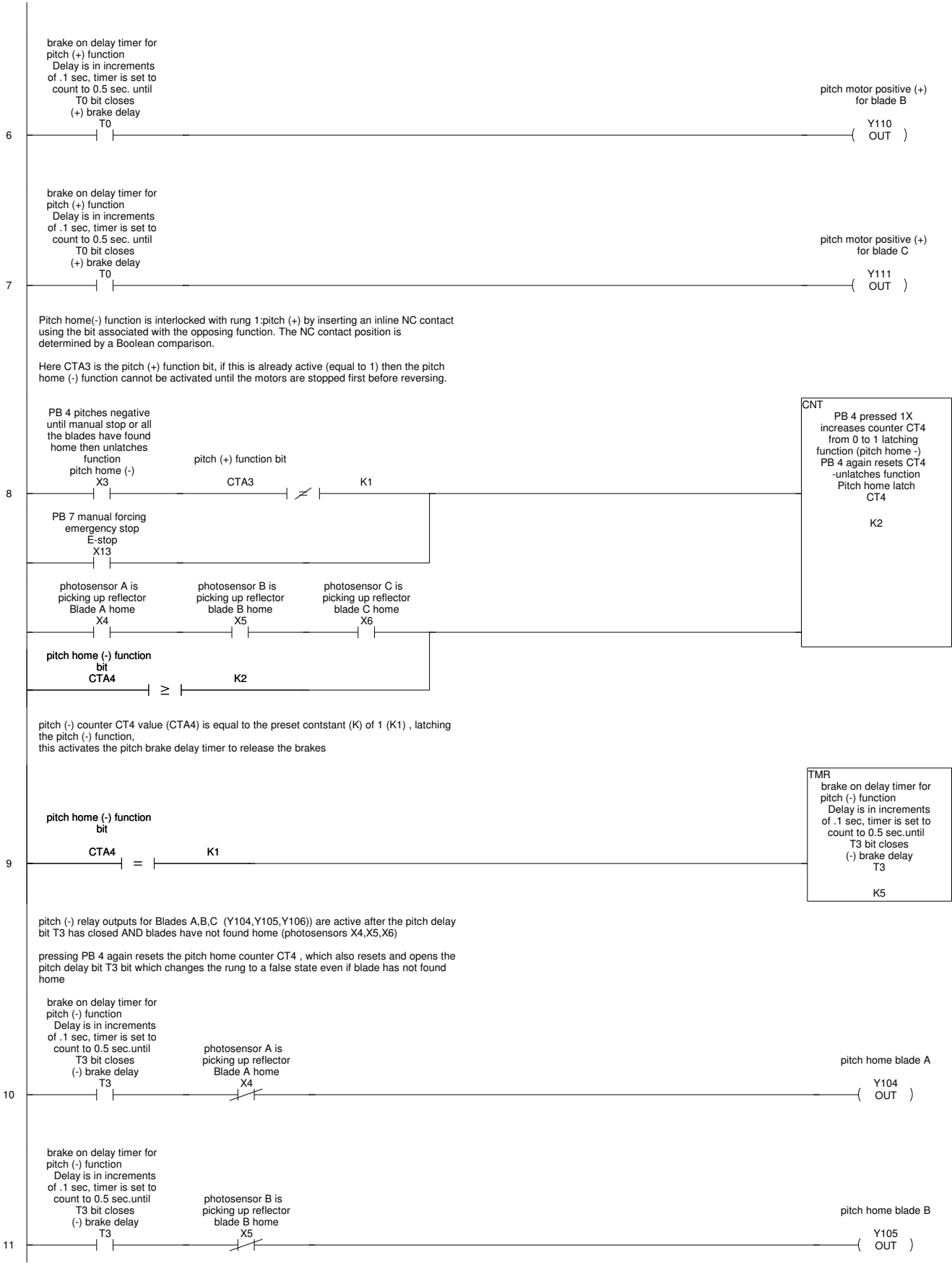
if any counter equals 2 (K2), the counter resets back to 0 and the function is off/unlatched or de-activated

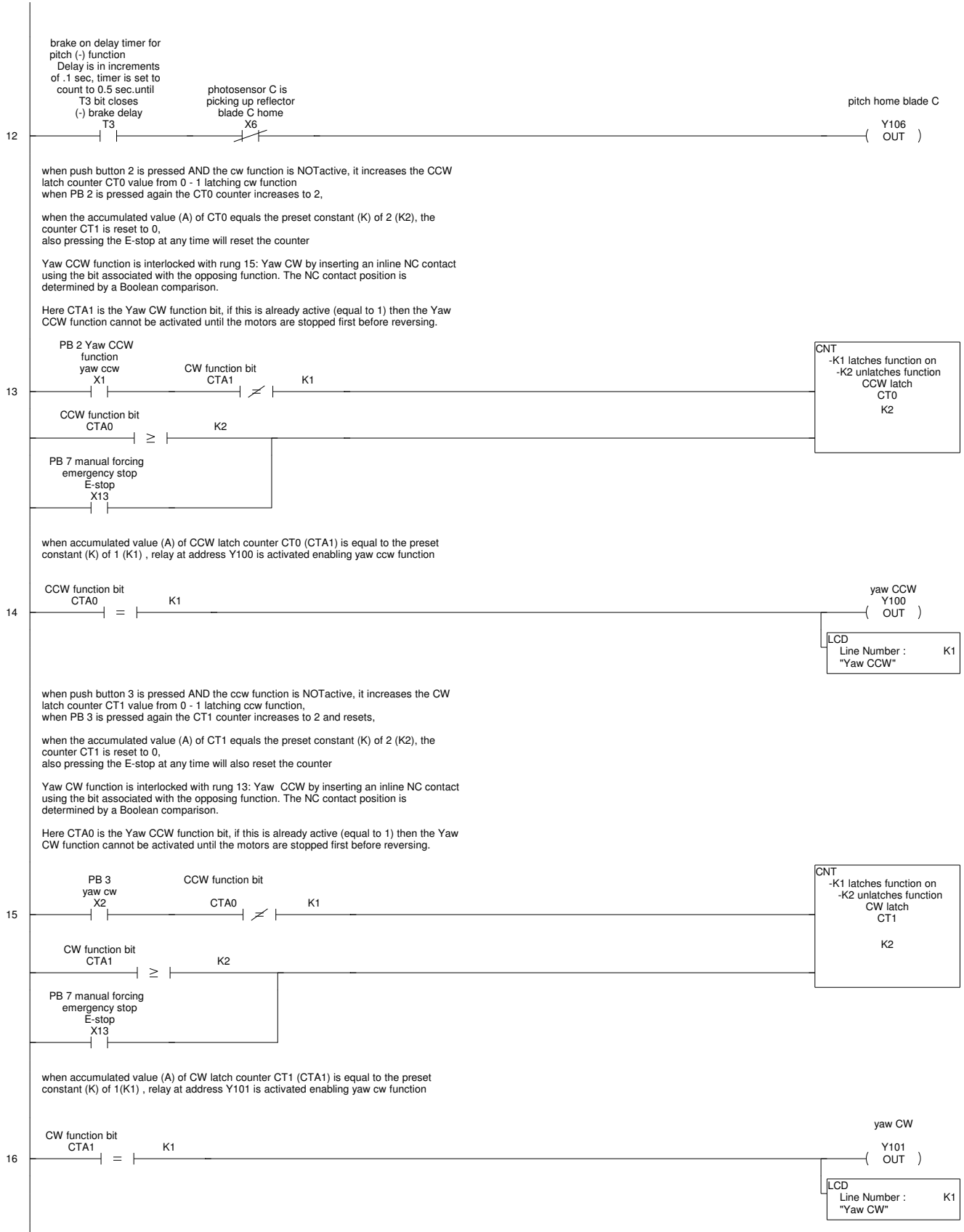
Rungs use Boolean Logic to determine the state of the counters

Rungs with functions of motor reversing are digitally interlocked by using the specific function counter accumulated value, either it is 0 (off) or 1 (on)

Pitch (+) function is interlocked with rung 8: pitch home (-) by inserting an inline NC contact using the bit associated with the opposing function. The NC contact position is determined by a Boolean comparison. Here CTA4 is the pitch (-) function bit, if this is already active (equal to 1) then the pitch (+) function cannot be activated until the motors are stopped first before reversing.



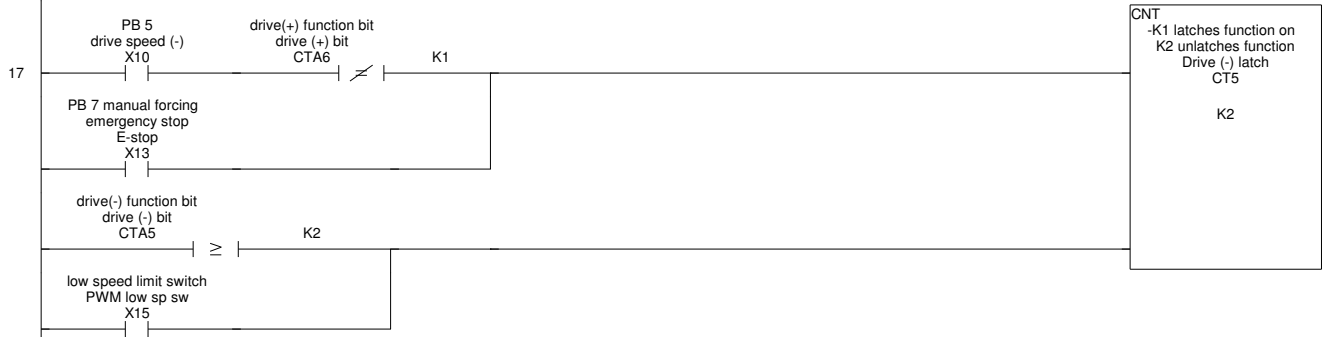




push button 5 increases drive negative (-) counter CT5 from 0-1 latching function, pressing PB 5 again increases counter to 2 resetting to 0 and unlatching function, when PWM gearmotor has reached its min. travel limit it will also reset the counter

drive (-) function is interlocked with rung 19: Drive(+) by inserting an inline NC contact using the bit associated with the opposing function. The NC contact position is determined by a Boolean comparison.

Here CTA6 is the Drive (+) function bit, if this is already active (equal to 1) then the Drive (-) function cannot be activated until the motors are stopped first before reversing.



CNT  
-K1 latches function on  
-K2 unlatches function  
Drive (-) latch  
CT5  
K2

As long as the drive negative function is latched AND the PWM gearmotor has not reached its min. travel limit, drive speed will decrease

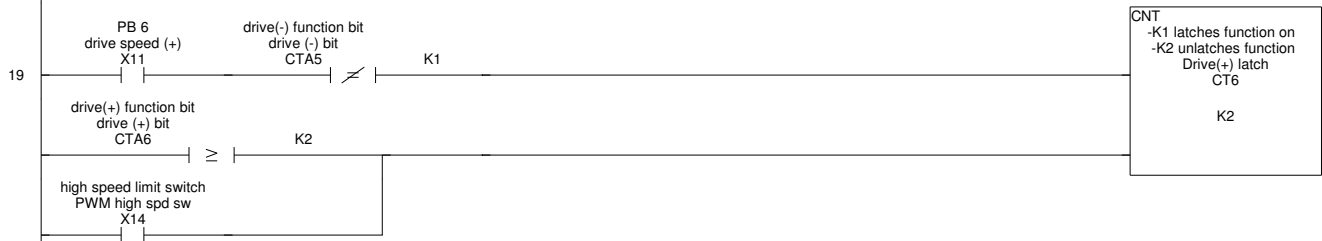


drive speed decrease  
Y102  
OUT

push button 6 increases drive positive (+) counter CT6 from 0-1 latching function, pressing PB 6 again increases counter to 2 resetting to 0 and unlatching function, when PWM gearmotor has reached its max. travel limit it will also reset the counter

drive (+) function is interlocked with rung 17: Drive(-) by inserting an inline NC contact using the bit associated with the opposing function. The NC contact position is determined by a Boolean comparison.

Here CTA5 is the Drive (-) function bit, if this is already active (equal to 1) then the Drive (+) function cannot be activated until the motors are stopped first before reversing.



CNT  
-K1 latches function on  
-K2 unlatches function  
Drive(+) latch  
CT6  
K2

As long as the drive increase function is latched AND the PWM gearmotor has not reached its max. travel, drive speed will increase



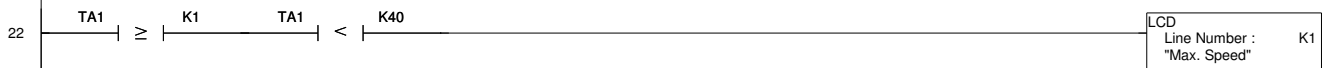
drive speed increase  
Y103  
OUT

PWM high speed limit switch has been activated, starts timer to establish time range for message to be displayed and then overwritten to clear screen



TMR  
speed status tmr  
T1  
K20

Briefly displays "max speed" status to LCD screen

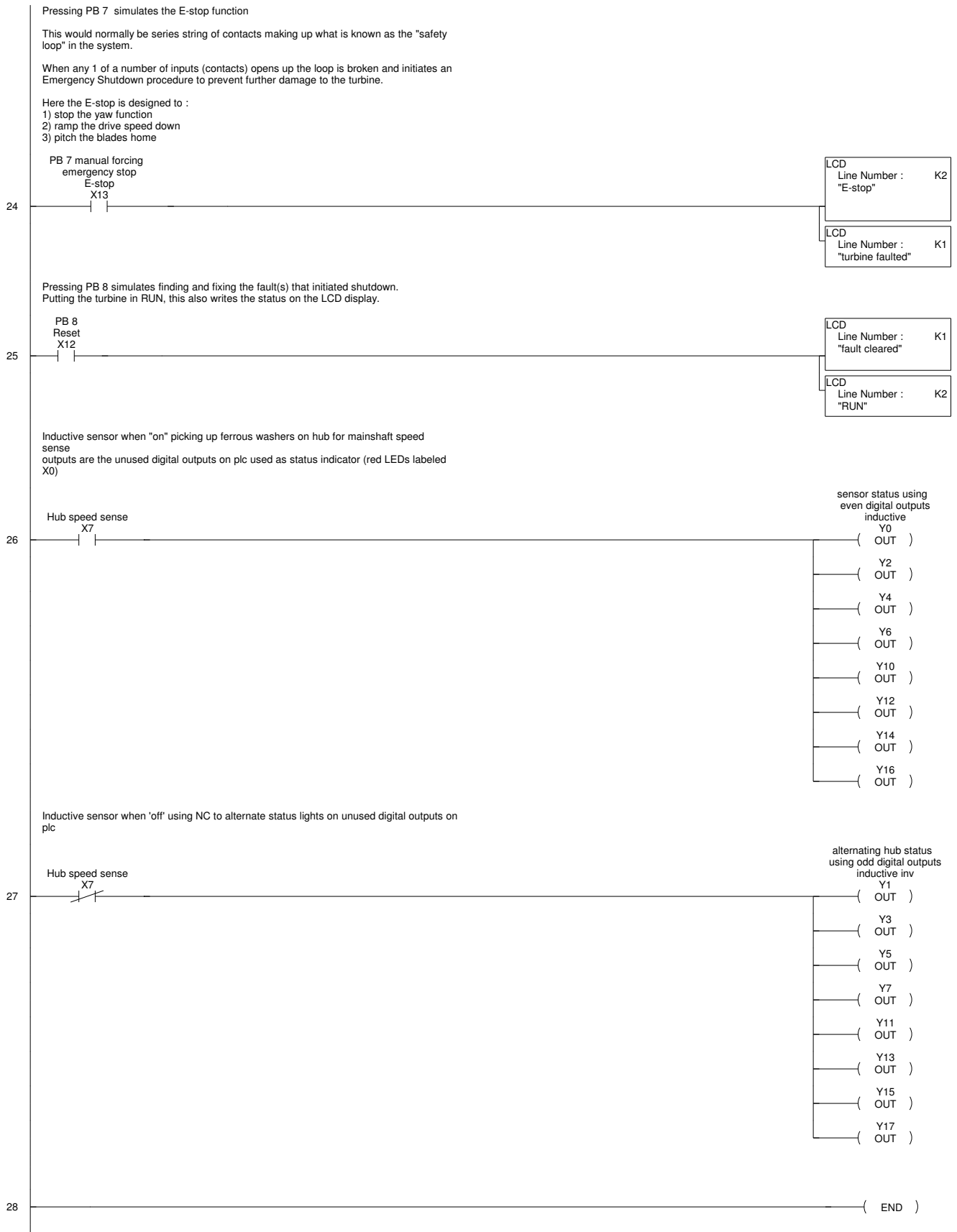


LCD  
Line Number : K1  
"Max. Speed"

briefly printing blank message to overwrite previous message essentially clearing screen



LCD  
Line Number : K1  
"



29

( NOP )