

## Revised Drilling Station Control

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Additional internal memory:

Symbol	Address	
RUN	B3/0	On while station running
INT_RESET	B3/1	Internal reset
STEP_1 to STEP_16	B20/1 to B20/16	Step-in-progress bits
UNCLAMP_TMR	T4:2	Times unclamp of part carrier

Start/stop and initial start.

Start push button, on  
when starting

START\_PB

I:1/0

INT\_RESET

B3/1

Stop push button, off  
when stopping

STOP\_PB

I:1/1

RUN

B3/0

RUN

B3/0

RUN

B3/0

STEP\_1

B20/1

STEP\_2

B20/2

STEP\_3

B20/3

STEP\_4

B20/4

STEP\_5

B20/5

STEP\_6

B20/6

STEP\_7

B20/7

STEP\_8

B20/8

STEP\_9

B20/9

STEP\_10

B20/10

STEP\_11

B20/11

STEP\_12

B20/12

STEP\_13

B20/13

STEP\_14

B20/14

STEP\_15

B20/15

STEP\_16

B20/16

STEP\_1

B20/1

Step 1 Wait for first part.

Proximity sensor, on  
when part in  
position 1

PROX1

I:1/3

RUN

B3/0

STEP\_1

B20/1

STEP\_2

B20/2

Step 2 Move part to Position 2.

Proximity sensor, on  
when part in  
position 2

PROX2

I:1/4

RUN

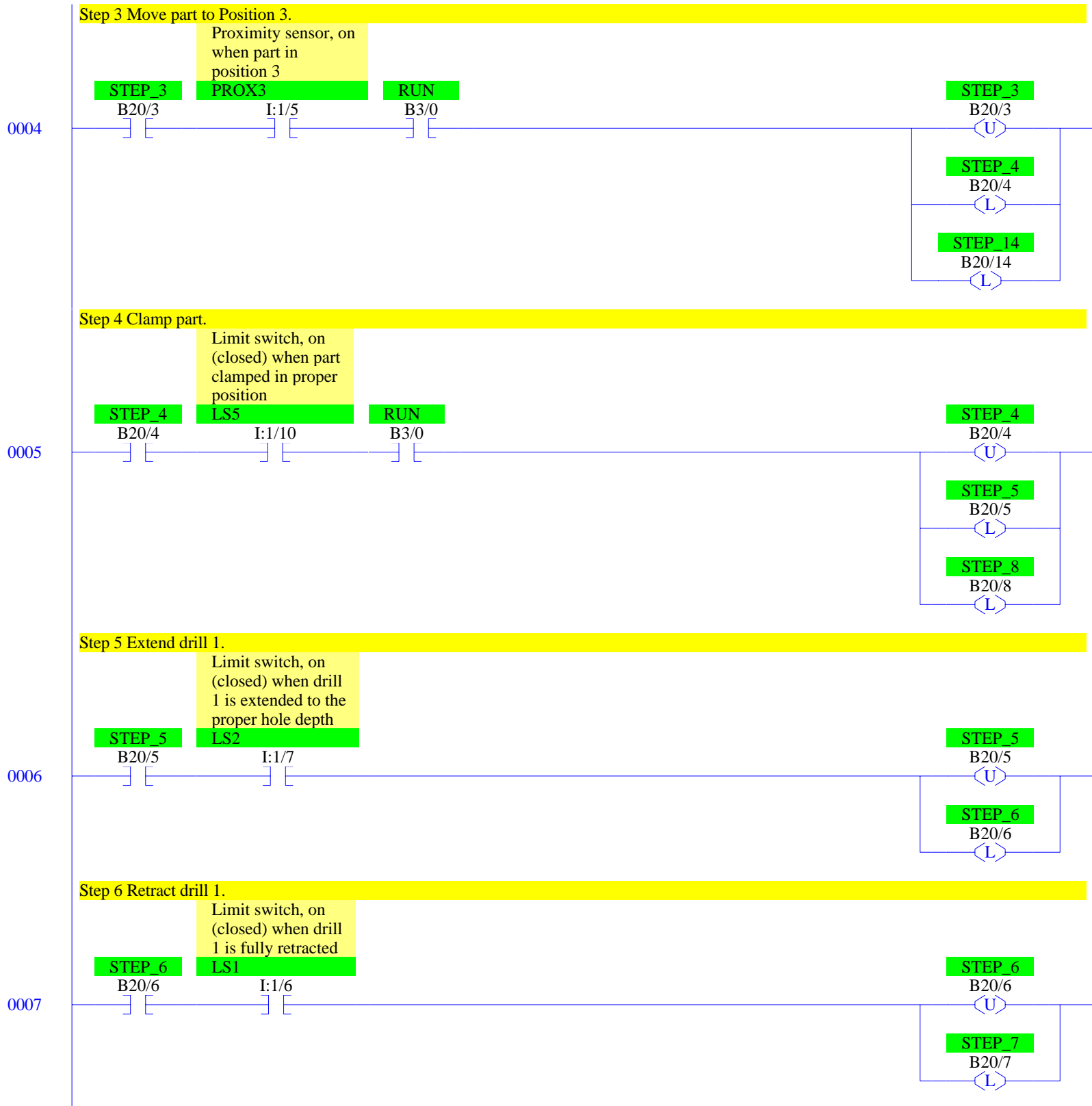
B3/0

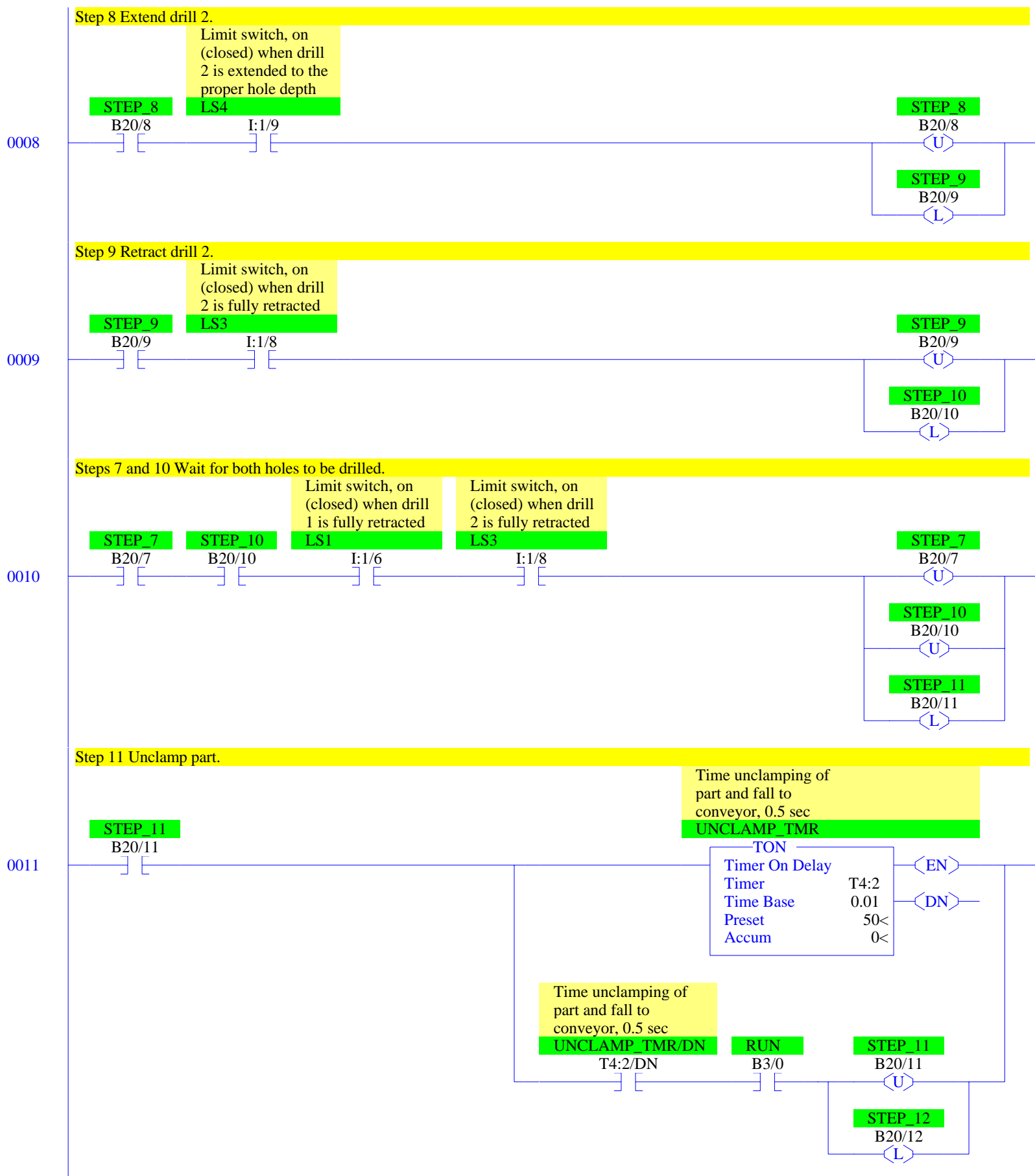
STEP\_2

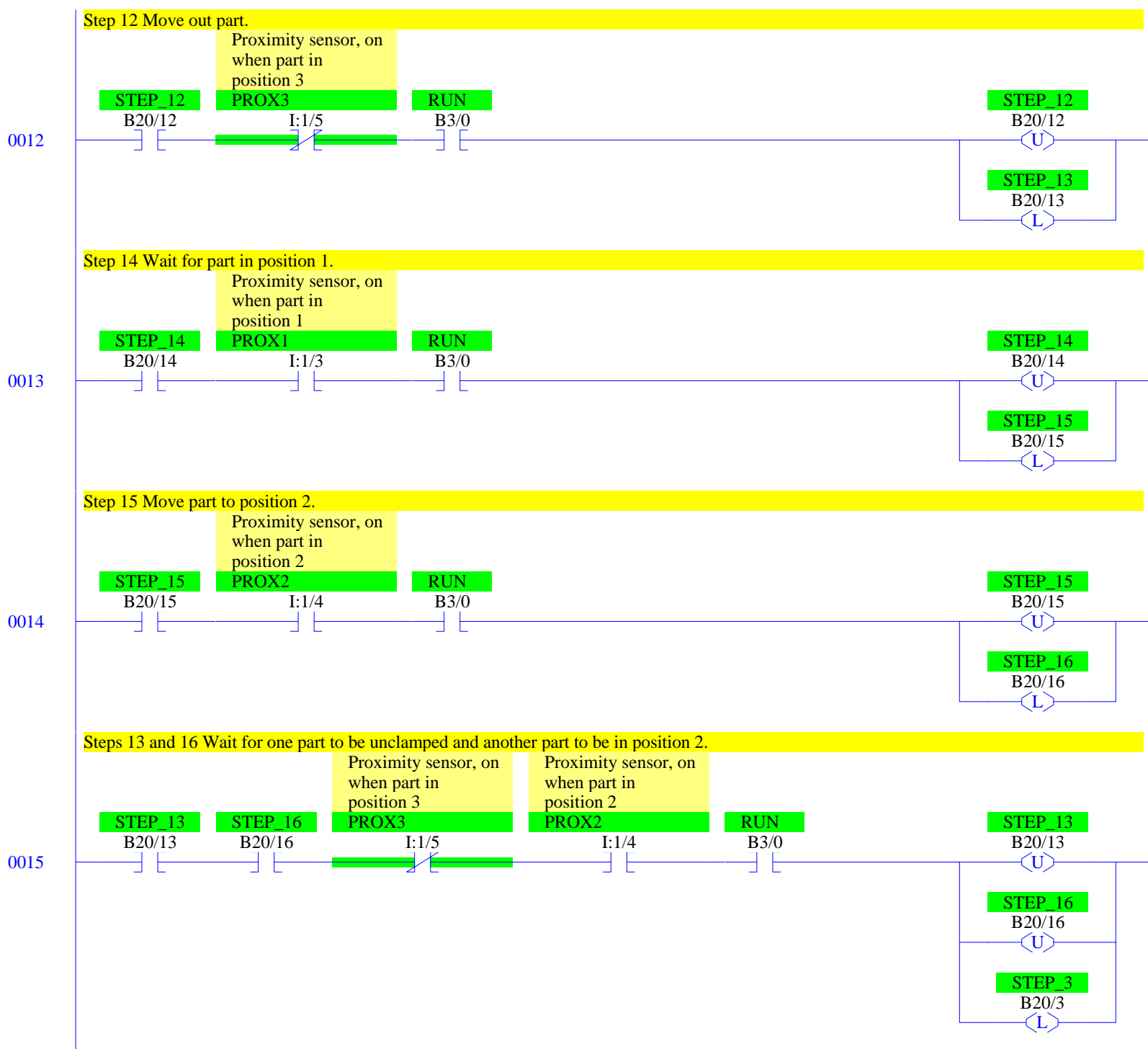
B20/2

STEP\_3

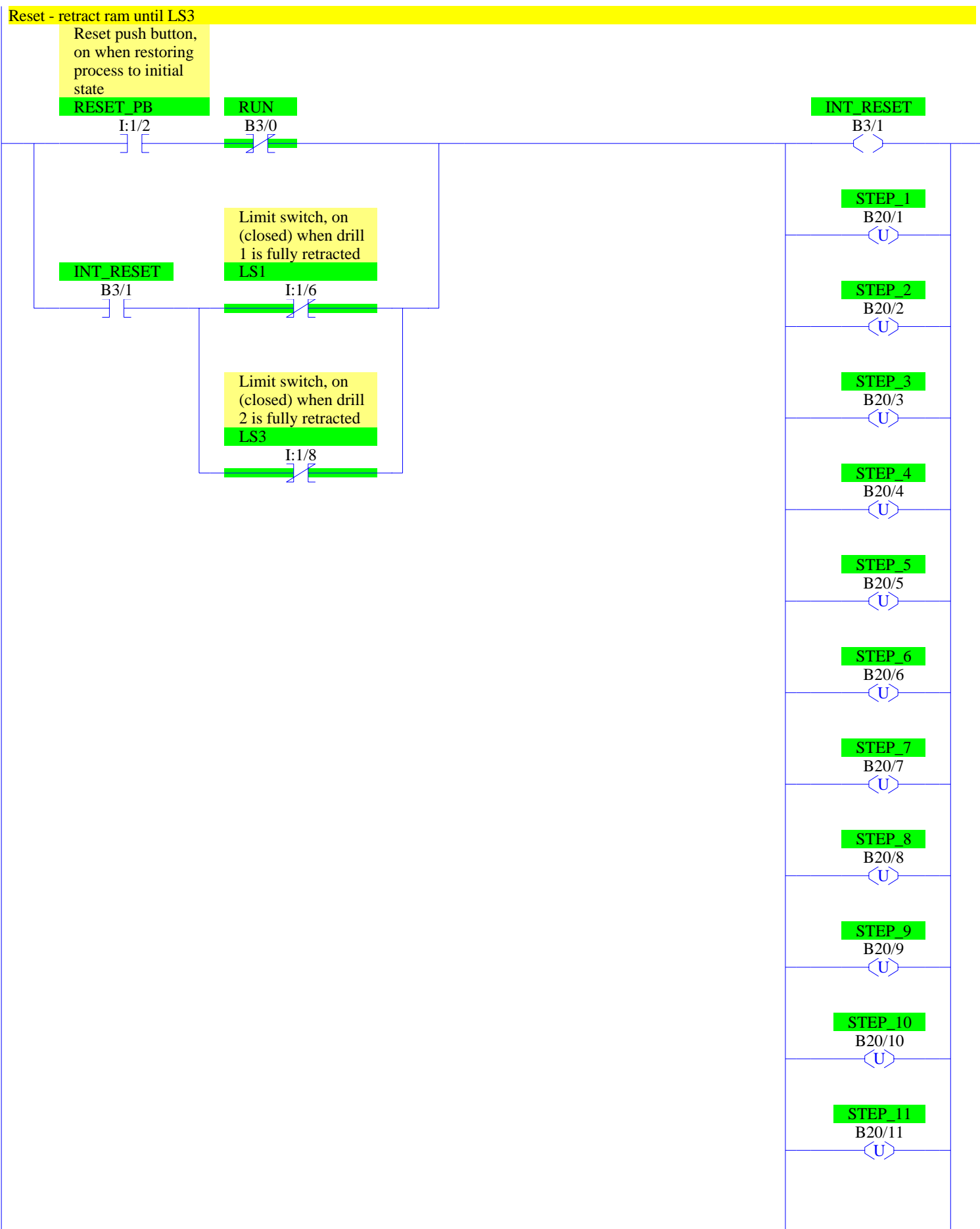
B20/3

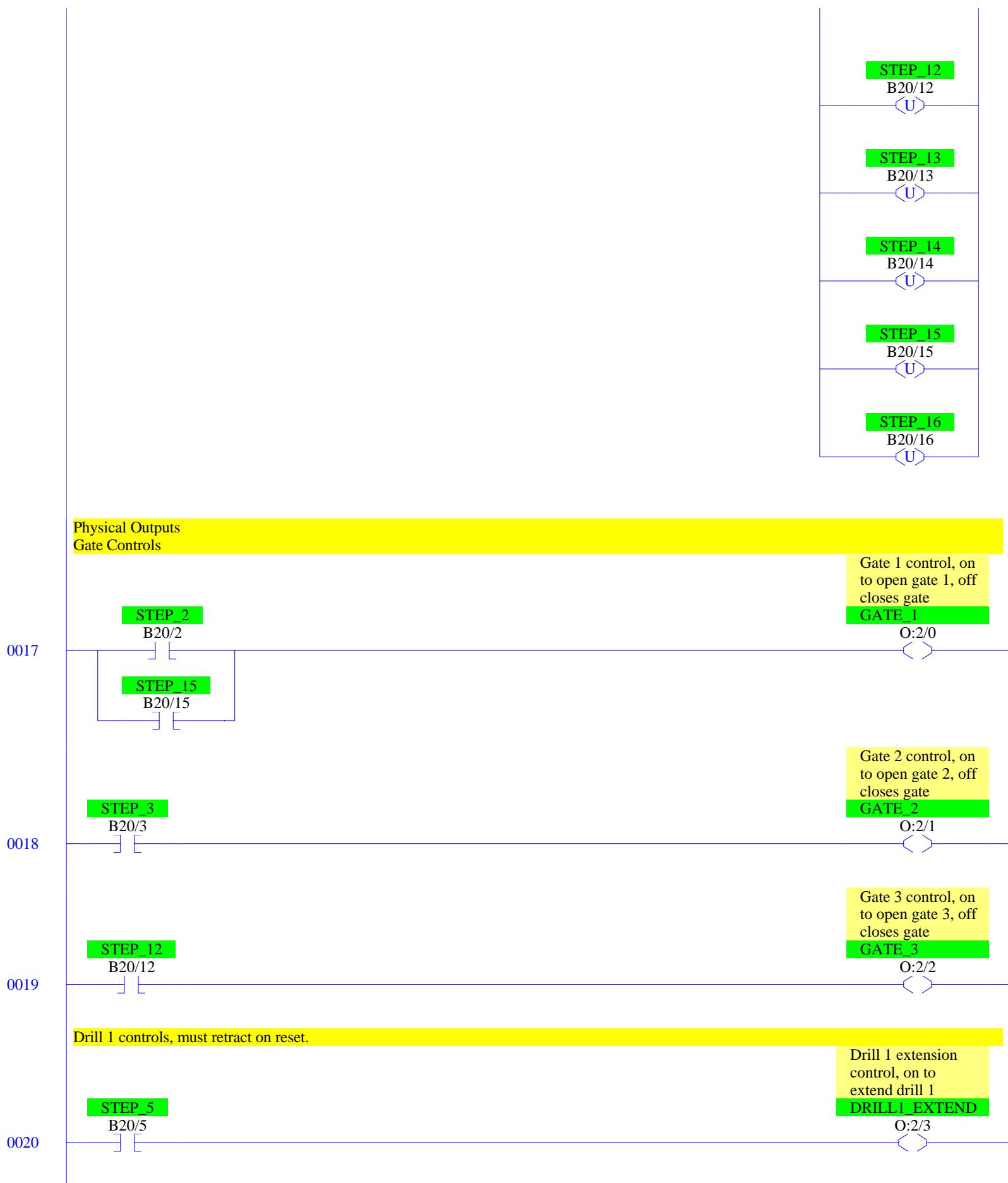


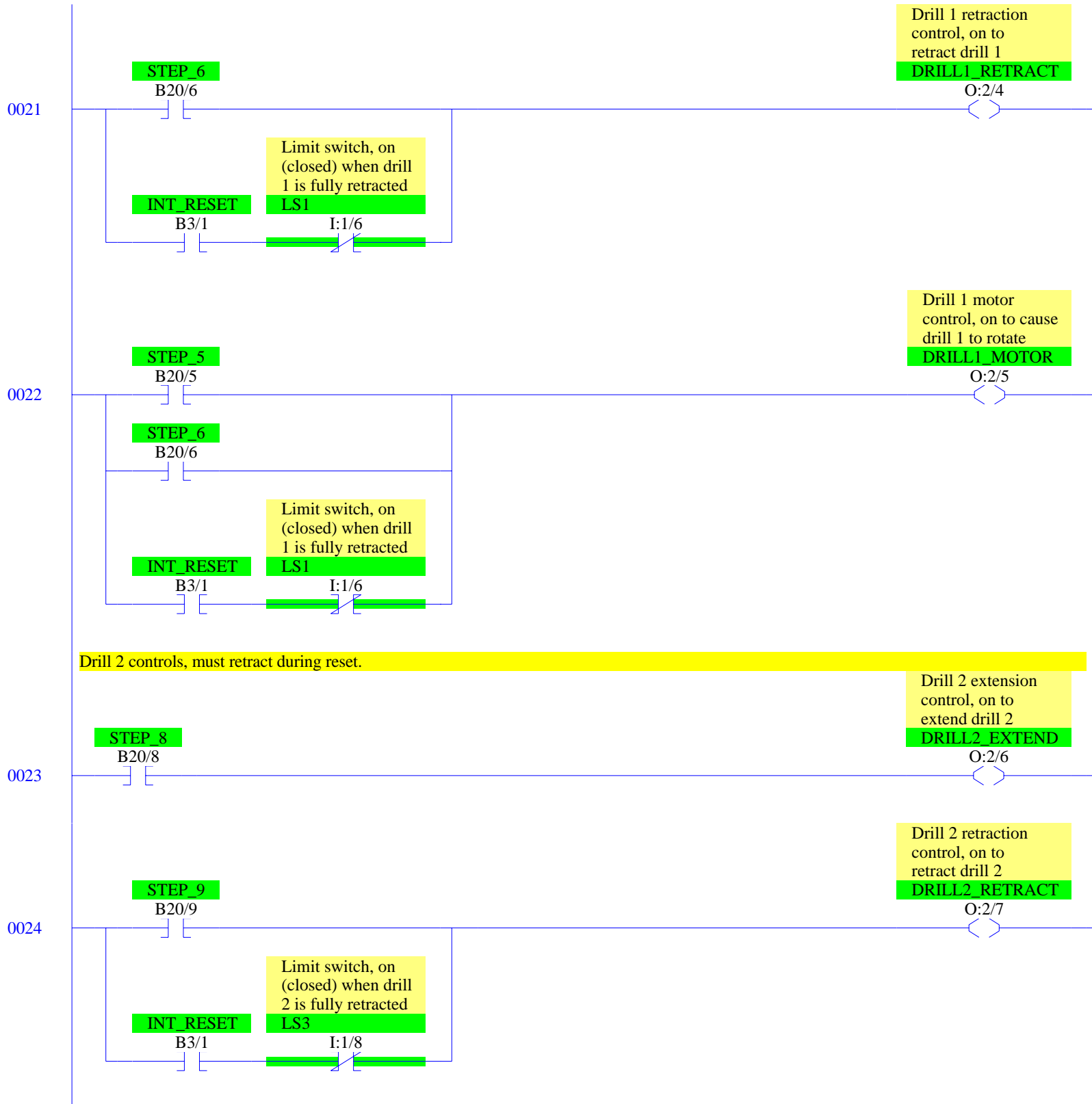


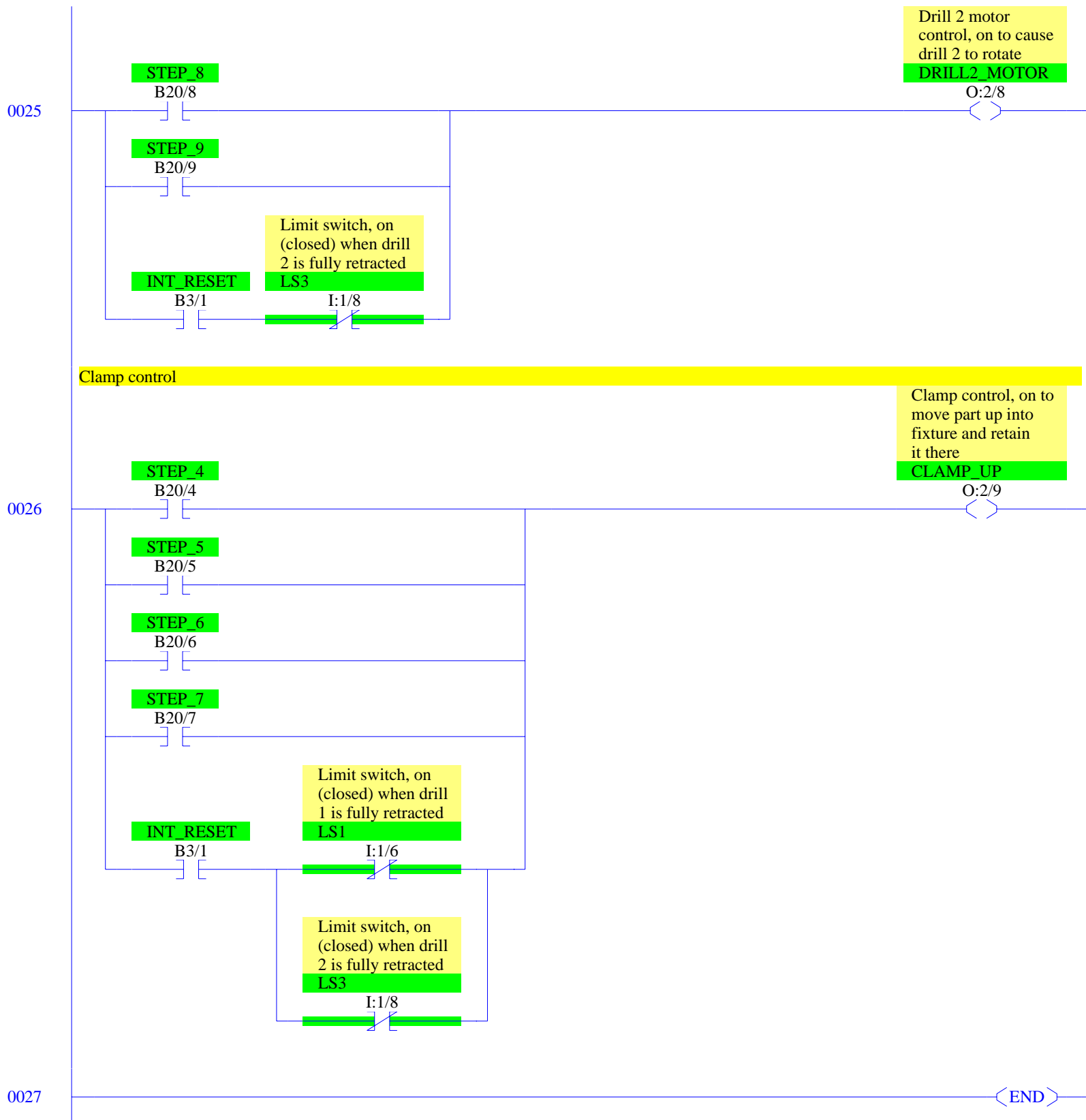


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## RSLogix 500 Cross Reference Report - Sorted by Address

O:2/0	- {GATE_1} Gate 1 control, on to open gate 1, off closes gate OTE - File #2 - 17
O:2/1	- {GATE_2} Gate 2 control, on to open gate 2, off closes gate OTE - File #2 - 18
O:2/2	- {GATE_3} Gate 3 control, on to open gate 3, off closes gate OTE - File #2 - 19
O:2/3	- {DRILL1_EXTEND} Drill 1 extension control, on to extend drill 1 OTE - File #2 - 20
O:2/4	- {DRILL1_RETRACT} Drill 1 retraction control, on to retract drill 1 OTE - File #2 - 21
O:2/5	- {DRILL1_MOTOR} Drill 1 motor control, on to cause drill 1 to rotate OTE - File #2 - 22
O:2/6	- {DRILL2_EXTEND} Drill 2 extension control, on to extend drill 2 OTE - File #2 - 23
O:2/7	- {DRILL2_RETRACT} Drill 2 retraction control, on to retract drill 2 OTE - File #2 - 24
O:2/8	- {DRILL2_MOTOR} Drill 2 motor control, on to cause drill 2 to rotate OTE - File #2 - 25
O:2/9	- {CLAMP_UP} Clamp control, on to move part up into fixture and retain it there OTE - File #2 - 26
I:1/0	- {START_PB} Start push button, on when starting XIC - File #2 - 0
I:1/1	- {STOP_PB} Stop push button, off when stopping XIC - File #2 - 0
I:1/2	- {RESET_PB} Reset push button, on when restoring process to initial state XIC - File #2 - 16
I:1/3	- {PROX1} Proximity sensor, on when part in position 1 XIC - File #2 - 2, 13
I:1/4	- {PROX2} Proximity sensor, on when part in position 2 XIC - File #2 - 3, 14, 15
I:1/5	- {PROX3} Proximity sensor, on when part in position 3 XIC - File #2 - 4 XIO - File #2 - 12, 15
I:1/6	- {LS1} Limit switch, on (closed) when drill 1 is fully retracted XIC - File #2 - 7, 10 XIO - File #2 - 16, 21, 22, 26
I:1/7	- {LS2} Limit switch, on (closed) when drill 1 is extended to the proper hole depth XIC - File #2 - 6
I:1/8	- {LS3} Limit switch, on (closed) when drill 2 is fully retracted XIC - File #2 - 9, 10 XIO - File #2 - 16, 24, 25, 26
I:1/9	- {LS4} Limit switch, on (closed) when drill 2 is extended to the proper hole depth XIC - File #2 - 8
I:1/10	- {LS5} Limit switch, on (closed) when part clamped in proper position XIC - File #2 - 5
B3/0	- {RUN} OTE - File #2 - 0 XIC - File #2 - 0, 1, 2, 3, 4, 5, 11, 12, 13, 14, 15 XIO - File #2 - 16
B3/1	- {INT_RESET} OTE - File #2 - 16 XIC - File #2 - 16, 21, 22, 24, 25, 26 XIO - File #2 - 0
T4:2	- {UNCLAMP_TMR} Time unclamping of part and fall to conveyor, 0.5 sec TON - File #2 - 11
T4:2/DN	- XIC - File #2 - 11
B20/1	- {STEP_1} OTL - File #2 - 1 OTU - File #2 - 2, 16 XIC - File #2 - 2 XIO - File #2 - 1
B20/2	- {STEP_2} OTL - File #2 - 2 OTU - File #2 - 3, 16 XIC - File #2 - 3, 17 XIO - File #2 - 1

## RSLogix 500 Cross Reference Report - Sorted by Address

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B20/3      - {STEP_3}
            OTL - File #2 - 3, 15
            OTU - File #2 - 4, 16
            XIC - File #2 - 4, 18
            XIO - File #2 - 1
B20/4      - {STEP_4}
            OTL - File #2 - 4
            OTU - File #2 - 5, 16
            XIC - File #2 - 5, 26
            XIO - File #2 - 1
B20/5      - {STEP_5}
            OTL - File #2 - 5
            OTU - File #2 - 6, 16
            XIC - File #2 - 6, 20, 22, 26
            XIO - File #2 - 1
B20/6      - {STEP_6}
            OTL - File #2 - 6
            OTU - File #2 - 7, 16
            XIC - File #2 - 7, 21, 22, 26
            XIO - File #2 - 1
B20/7      - {STEP_7}
            OTL - File #2 - 7
            OTU - File #2 - 10, 16
            XIC - File #2 - 10, 26
            XIO - File #2 - 1
B20/8      - {STEP_8}
            OTL - File #2 - 5
            OTU - File #2 - 8, 16
            XIC - File #2 - 8, 23, 25
            XIO - File #2 - 1
B20/9      - {STEP_9}
            OTL - File #2 - 8
            OTU - File #2 - 9, 16
            XIC - File #2 - 9, 24, 25
            XIO - File #2 - 1
B20/10     - {STEP_10}
            OTL - File #2 - 9
            OTU - File #2 - 10, 16
            XIC - File #2 - 10
            XIO - File #2 - 1
B20/11     - {STEP_11}
            OTL - File #2 - 10
            OTU - File #2 - 11, 16
            XIC - File #2 - 11
            XIO - File #2 - 1
B20/12     - {STEP_12}
            OTL - File #2 - 11
            OTU - File #2 - 12, 16
            XIC - File #2 - 12, 19
            XIO - File #2 - 1
B20/13     - {STEP_13}
            OTL - File #2 - 12
            OTU - File #2 - 15, 16
            XIC - File #2 - 15
            XIO - File #2 - 1
B20/14     - {STEP_14}
            OTL - File #2 - 4
            OTU - File #2 - 13, 16
            XIC - File #2 - 13
            XIO - File #2 - 1
B20/15     - {STEP_15}
            OTL - File #2 - 13
            OTU - File #2 - 14, 16
            XIC - File #2 - 14, 17
            XIO - File #2 - 1
B20/16     - {STEP_16}

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RSLogix 500 Cross Reference Report - Sorted by Address

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OTL - File #2 - 14  
OTU - File #2 - 15, 16  
XIC - File #2 - 15  
XIO - File #2 - 1