

# TECHNICAL DOCUMENTATION

## Example 6\_5

Project	Example 6_5
Designer	
Application	example_6_5_simulation.stu
Software Version	ControlExpert V15.0-SP1
Creation Date	6/15/2023 6:54:13 PM
Last Modification Date	6/15/2023 6:54:13 PM
Target PLC	BMX P34 1000 02.00CPU 340-10 Modbus

# MAST

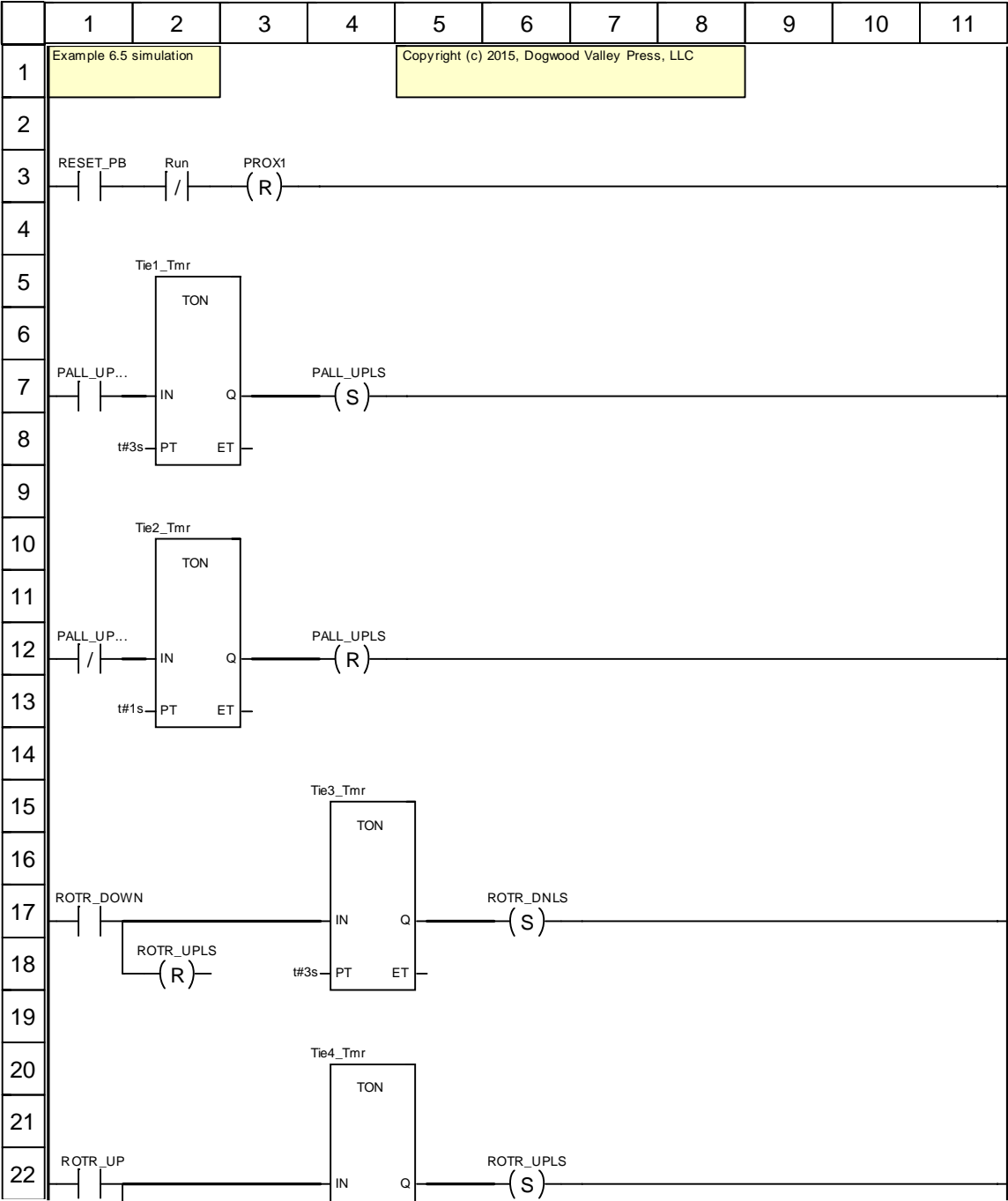
**Specific properties**

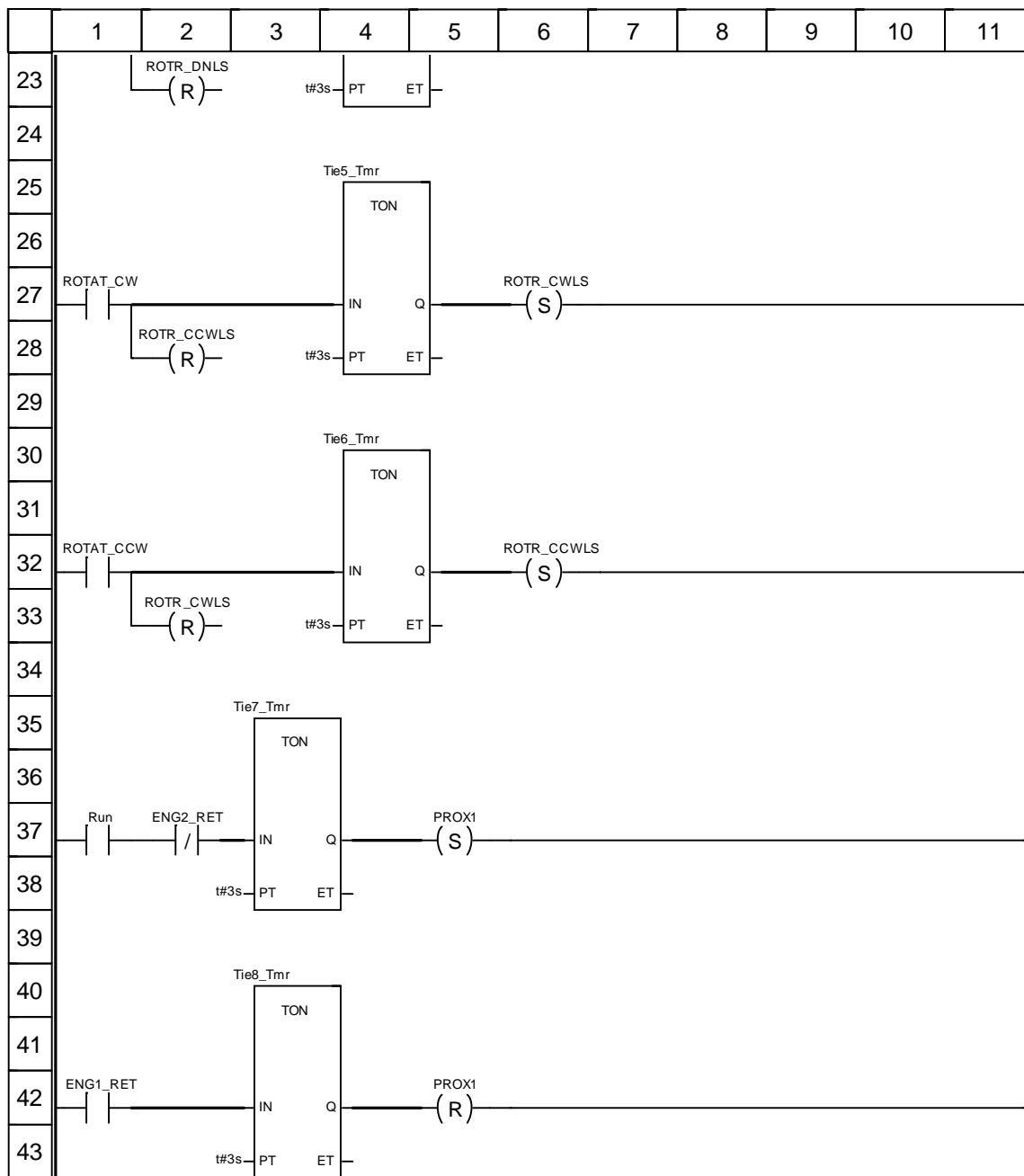
Configuration	Cyclic
Task period configuration	0
Watchdog time configuration	250

# Simulation : [MAST]

Specific properties

Condition name	Tieback_Enable
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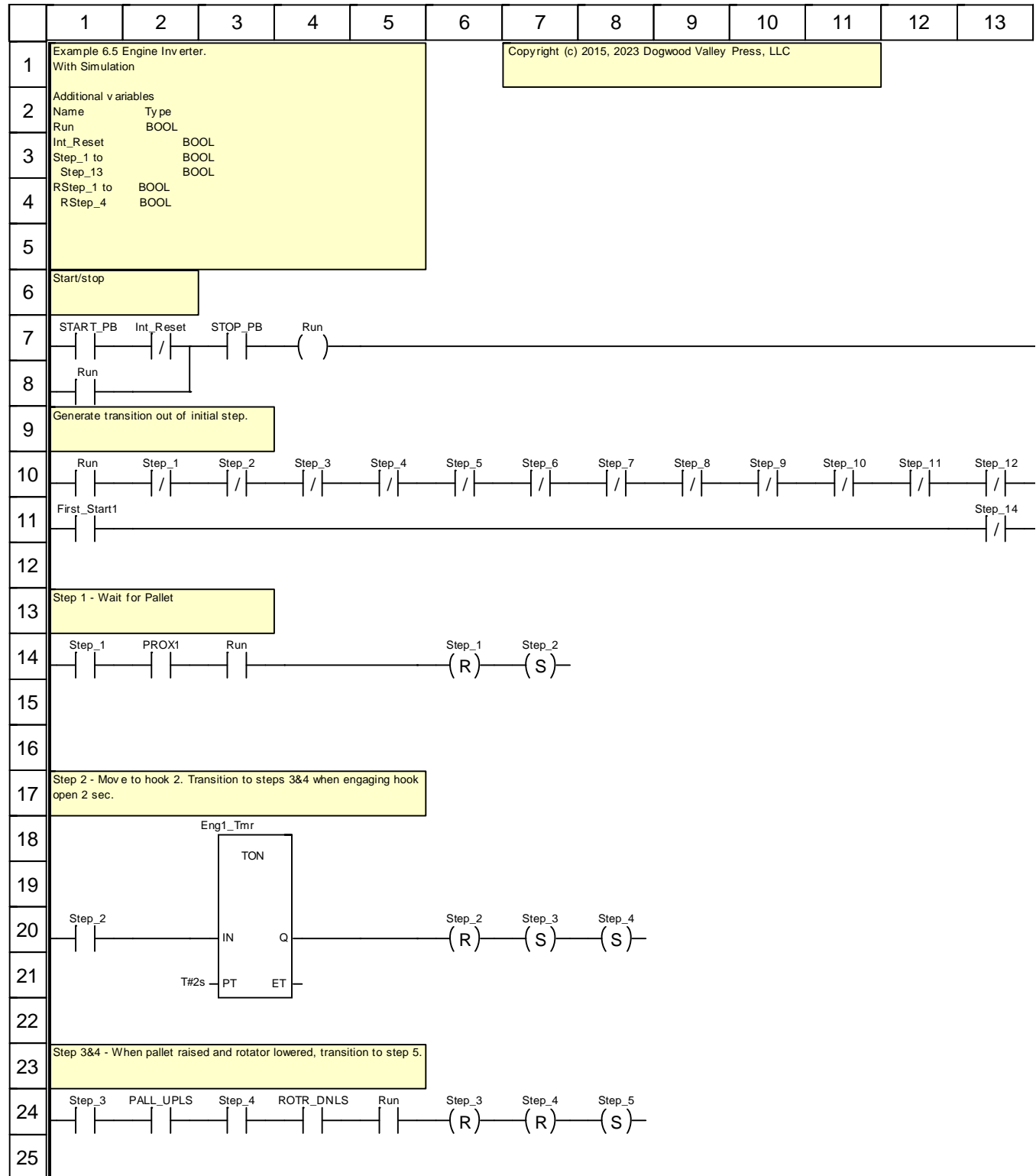




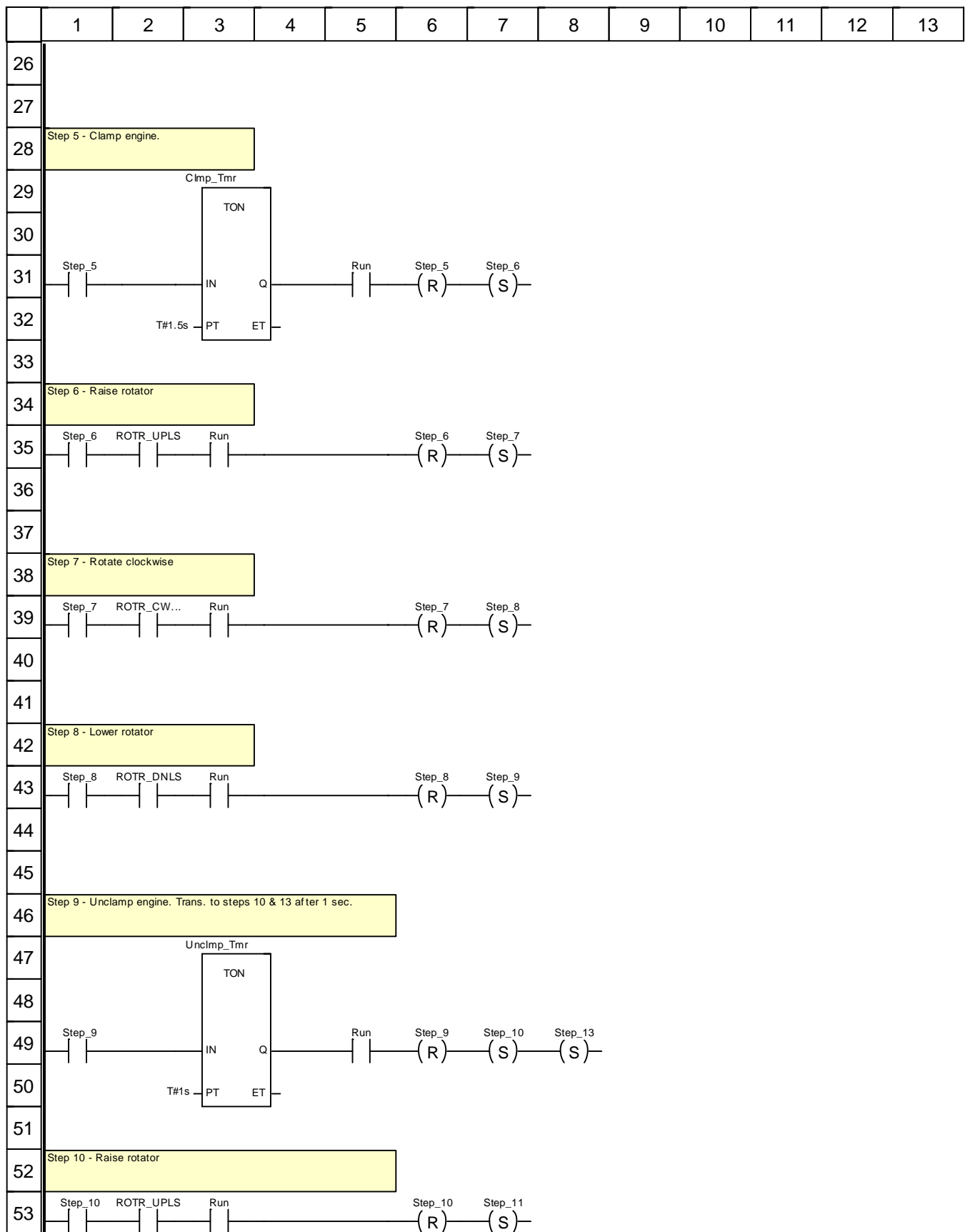
## Truncated labels:

Label	Position(s)
PALL_UPCTL	(1, 7) (1, 12)

# Main : [MAST]

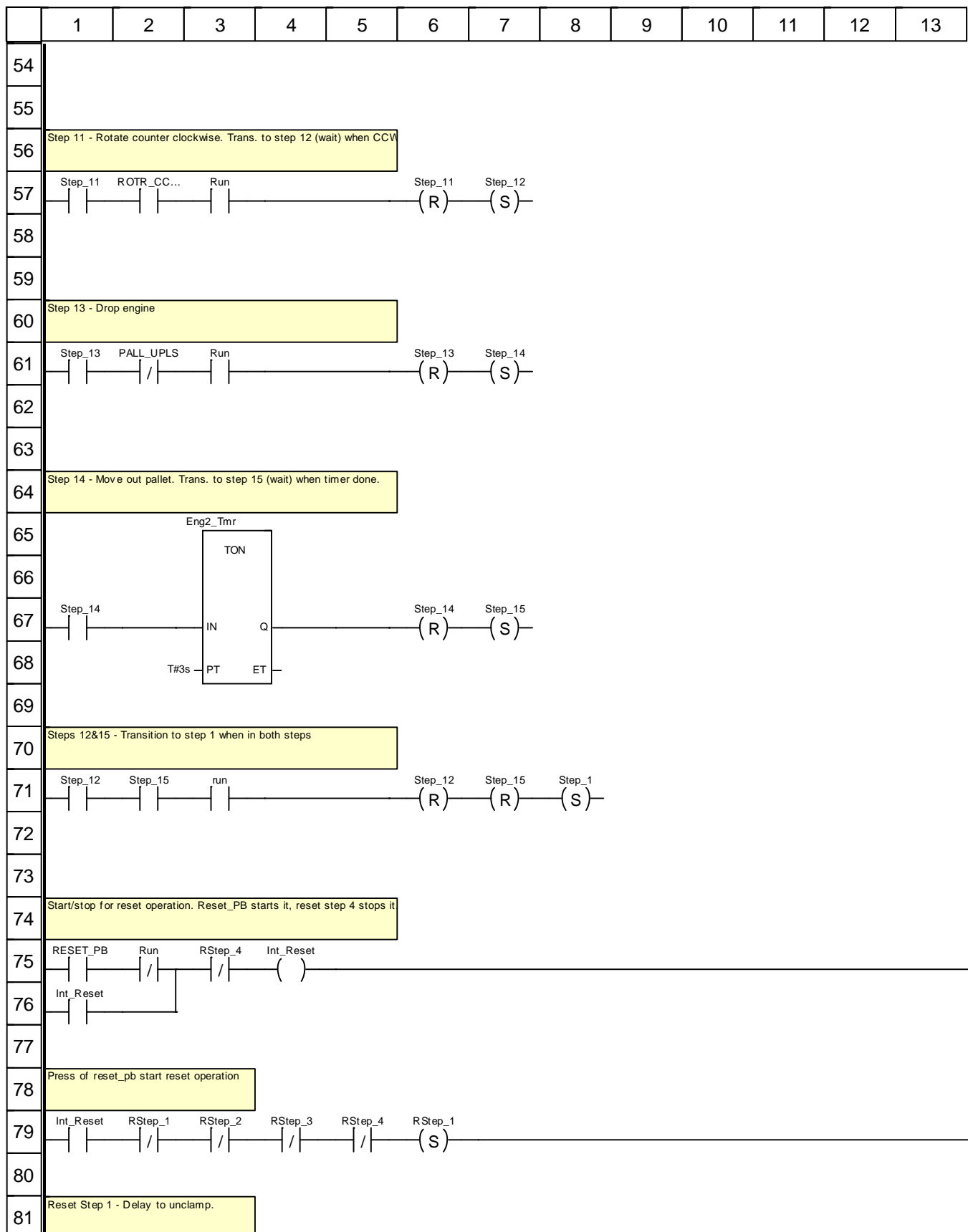


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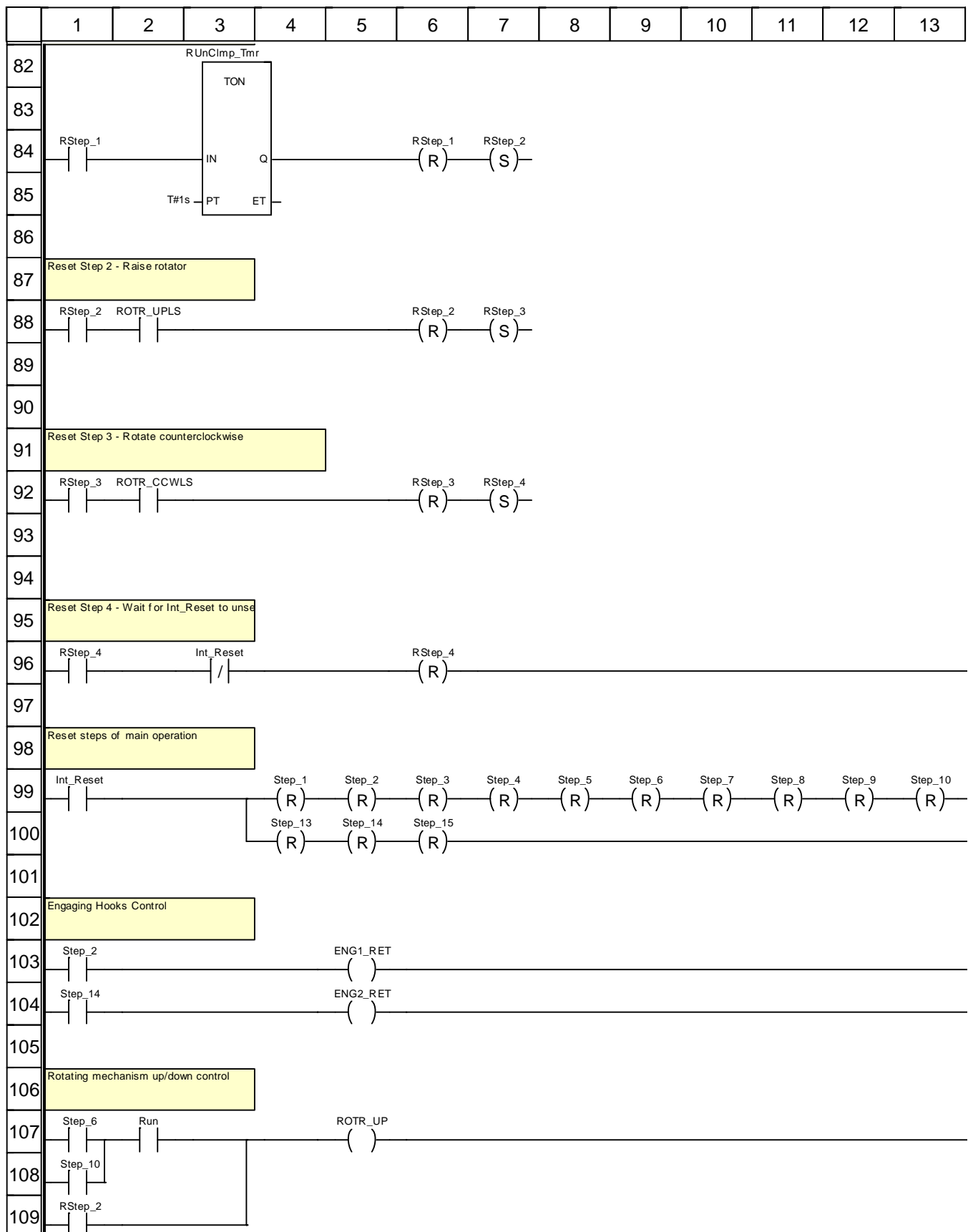


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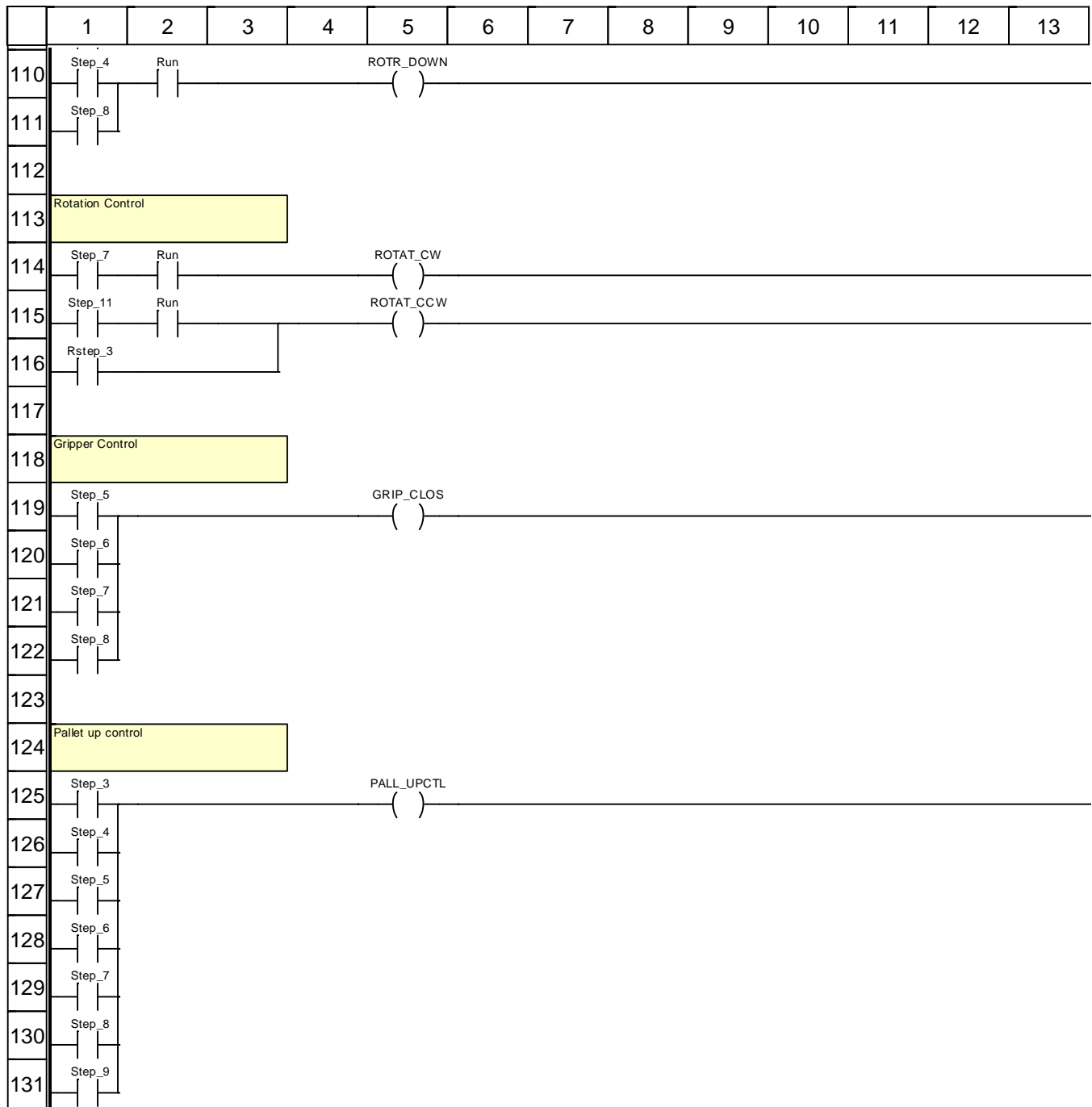




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## Truncated labels:

Label	Position(s)
ROTR_CCWLS	(2, 57)
ROTR_CWLS	(2, 39)

# FAST

**Specific properties**

Configuration	Periodic
Task period configuration	5
Watchdog time configuration	100

# Cross References

## Application:

### Addresses

Object	Referred into	Location	Usage
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### Variables or FB instances

Object	Referred into	Location	Usage
Clmp_Tmr	Main : [MAST]	(l 29, c: 3)	FC
ENG1_RET	<Screen>Screen		R ( x1 )
	Simulation : [MAST]	(l 42, c: 1)	R
	Main : [MAST]	(l 103, c: 5)	W
Eng1_Tmr	Main : [MAST]	(l 18, c: 3)	FC
ENG2_RET	<Screen>Screen		R ( x1 )
	Simulation : [MAST]	(l 37, c: 2)	R
	Main : [MAST]	(l 104, c: 5)	W
Eng2_Tmr	Main : [MAST]	(l 65, c: 3)	FC
First_Start1	Main : [MAST]	(l 10, c: 15)	W
		(l 11, c: 1)	R
GRIP_CLOS	<Screen>Screen		R ( x1 )
	Main : [MAST]	(l 119, c: 5)	W
Int_Reset	Main : [MAST]	(l 7, c: 2)	R
		(l 75, c: 4)	W
		(l 76, c: 1)	R
		(l 79, c: 1)	R
		(l 96, c: 3)	R
		(l 99, c: 1)	R
PALL_UPCTL	<Screen>Screen		R ( x1 )
	Simulation : [MAST]	(l 7, c: 1)	R
		(l 12, c: 1)	R
	Main : [MAST]	(l 125, c: 5)	W
PALL_UPLS	<Screen>Screen		R ( x1 )
	Simulation : [MAST]	(l 7, c: 4)	W
		(l 12, c: 4)	W
	Main : [MAST]	(l 24, c: 2)	R
		(l 61, c: 2)	R
PROX1	<Screen>Screen		R ( x1 )
	Simulation : [MAST]	(l 3, c: 3)	W
		(l 37, c: 5)	W
		(l 42, c: 5)	W
	Main : [MAST]	(l 14, c: 2)	R
RESET_PB	Simulation : [MAST]	(l 3, c: 1)	R
	Main : [MAST]	(l 75, c: 1)	R
ROTAT_CCW	<Screen>Screen		R ( x1 )
	Simulation : [MAST]	(l 32, c: 1)	R
	Main : [MAST]	(l 115, c: 5)	W
ROTAT_CW	<Screen>Screen		R ( x1 )
	Simulation : [MAST]	(l 27, c: 1)	R
	Main : [MAST]	(l 114, c: 5)	W
ROTR_CCWLS	<Screen>Screen		R ( x1 )
	Simulation : [MAST]	(l 28, c: 2)	W
		(l 32, c: 6)	W
	Main : [MAST]	(l 57, c: 2)	R



## Cross References

Object	Referred into	Location	Usage
		(l 92, c: 2)	R
ROTR_CWLS	<Screen>Screen		R ( x1 )
	Simulation : [MAST]	(l 27, c: 6)	W
		(l 33, c: 2)	W
	Main : [MAST]	(l 39, c: 2)	R
ROTR_DNLS	<Screen>Screen		R ( x1 )
	Simulation : [MAST]	(l 17, c: 6)	W
		(l 23, c: 2)	W
	Main : [MAST]	(l 24, c: 4)	R
		(l 43, c: 2)	R
ROTR_DOWN	<Screen>Screen		R ( x1 )
	Simulation : [MAST]	(l 17, c: 1)	R
	Main : [MAST]	(l 110, c: 5)	W
ROTR_UP	<Screen>Screen		R ( x1 )
	Simulation : [MAST]	(l 22, c: 1)	R
	Main : [MAST]	(l 107, c: 5)	W
ROTR_UPLS	<Screen>Screen		R ( x1 )
	Simulation : [MAST]	(l 18, c: 2)	W
		(l 22, c: 6)	W
	Main : [MAST]	(l 35, c: 2)	R
		(l 53, c: 2)	R
		(l 88, c: 2)	R
RStep_1	Main : [MAST]	(l 79, c: 2)	R
		(l 79, c: 6)	W
		(l 84, c: 1)	R
		(l 84, c: 6)	W
RStep_2	Main : [MAST]	(l 79, c: 3)	R
		(l 88, c: 1)	R
		(l 109, c: 1)	R
		(l 84, c: 7)	W
		(l 88, c: 6)	W
RStep_3	Main : [MAST]	(l 79, c: 4)	R
		(l 92, c: 1)	R
		(l 116, c: 1)	R
		(l 88, c: 7)	W
		(l 92, c: 6)	W
RStep_4	Main : [MAST]	(l 75, c: 3)	R
		(l 79, c: 5)	R
		(l 96, c: 1)	R
		(l 96, c: 6)	W
		(l 92, c: 7)	W
Run	<Screen>Screen		R ( x1 )
	Simulation : [MAST]	(l 3, c: 2)	R
		(l 37, c: 1)	R
	Main : [MAST]	(l 7, c: 4)	W
		(l 8, c: 1)	R
		(l 10, c: 1)	R
		(l 14, c: 3)	R
		(l 35, c: 3)	R
		(l 39, c: 3)	R
		(l 43, c: 3)	R
		(l 53, c: 3)	R
		(l 57, c: 3)	R
		(l 61, c: 3)	R
		(l 71, c: 3)	R

## Cross References

Object	Referred into	Location	Usage
		(f 75, c: 2)	R
		(f 107, c: 2)	R
		(f 110, c: 2)	R
		(f 114, c: 2)	R
		(f 115, c: 2)	R
		(f 24, c: 5)	R
		(f 31, c: 5)	R
		(f 49, c: 5)	R
RUnClmp_Tmr	Main : [MAST]	(f 82, c: 3)	FC
START_PB	Main : [MAST]	(f 7, c: 1)	R
Step_1	Main : [MAST]	(f 10, c: 2)	R
		(f 11, c: 15)	W
		(f 14, c: 1)	R
		(f 14, c: 6)	W
		(f 71, c: 8)	W
		(f 99, c: 4)	W
Step_2	Main : [MAST]	(f 10, c: 3)	R
		(f 20, c: 1)	R
		(f 103, c: 1)	R
		(f 14, c: 7)	W
		(f 20, c: 6)	W
		(f 99, c: 5)	W
Step_3	Main : [MAST]	(f 10, c: 4)	R
		(f 24, c: 1)	R
		(f 125, c: 1)	R
		(f 20, c: 7)	W
		(f 24, c: 6)	W
		(f 99, c: 6)	W
Step_4	Main : [MAST]	(f 10, c: 5)	R
		(f 24, c: 3)	R
		(f 110, c: 1)	R
		(f 126, c: 1)	R
		(f 20, c: 8)	W
		(f 24, c: 7)	W
		(f 99, c: 7)	W
Step_5	Main : [MAST]	(f 10, c: 6)	R
		(f 31, c: 1)	R
		(f 119, c: 1)	R
		(f 127, c: 1)	R
		(f 24, c: 8)	W
		(f 31, c: 6)	W
		(f 99, c: 8)	W
Step_6	Main : [MAST]	(f 10, c: 7)	R
		(f 35, c: 1)	R
		(f 107, c: 1)	R
		(f 120, c: 1)	R
		(f 128, c: 1)	R
		(f 31, c: 7)	W
		(f 35, c: 6)	W
		(f 99, c: 9)	W
Step_7	Main : [MAST]	(f 10, c: 8)	R
		(f 39, c: 1)	R
		(f 114, c: 1)	R
		(f 121, c: 1)	R
		(f 129, c: 1)	R

## Cross References

Object	Referred into	Location	Usage
		(L 35, c: 7)	W
		(L 39, c: 6)	W
		(L 99, c: 10)	W
Step_8	Main : [MAST]	(L 10, c: 9)	R
		(L 43, c: 1)	R
		(L 111, c: 1)	R
		(L 122, c: 1)	R
		(L 130, c: 1)	R
		(L 39, c: 7)	W
		(L 43, c: 6)	W
		(L 99, c: 11)	W
Step_9	Main : [MAST]	(L 10, c: 10)	R
		(L 49, c: 1)	R
		(L 131, c: 1)	R
		(L 43, c: 7)	W
		(L 49, c: 6)	W
		(L 99, c: 12)	W
Step_10	Main : [MAST]	(L 10, c: 11)	R
		(L 53, c: 1)	R
		(L 108, c: 1)	R
		(L 49, c: 7)	W
		(L 53, c: 6)	W
		(L 99, c: 13)	W
Step_11	Main : [MAST]	(L 10, c: 12)	R
		(L 57, c: 1)	R
		(L 115, c: 1)	R
		(L 53, c: 7)	W
		(L 57, c: 6)	W
		(L 99, c: 14)	W
Step_12	Main : [MAST]	(L 10, c: 13)	R
		(L 71, c: 1)	R
		(L 57, c: 7)	W
		(L 71, c: 6)	W
		(L 99, c: 15)	W
Step_13	Main : [MAST]	(L 10, c: 14)	R
		(L 61, c: 1)	R
		(L 49, c: 8)	W
		(L 61, c: 6)	W
		(L 100, c: 4)	W
Step_14	Main : [MAST]	(L 11, c: 13)	R
		(L 67, c: 1)	R
		(L 104, c: 1)	R
		(L 61, c: 7)	W
		(L 67, c: 6)	W
		(L 100, c: 5)	W
Step_15	Main : [MAST]	(L 11, c: 14)	R
		(L 71, c: 2)	R
		(L 67, c: 7)	W
		(L 71, c: 7)	W
		(L 100, c: 6)	W
STOP_PB	Main : [MAST]	(L 7, c: 3)	R
Tie1_Tmr	Simulation : [MAST]	(L 5, c: 2)	FC
Tie2_Tmr	Simulation : [MAST]	(L 10, c: 2)	FC
Tie3_Tmr	Simulation : [MAST]	(L 15, c: 4)	FC
Tie4_Tmr	Simulation : [MAST]	(L 20, c: 4)	FC

## Cross References

Object	Referred into	Location	Usage
Tie5_Tmr	Simulation : [MAST]	(l: 25, c: 4)	FC
Tie6_Tmr	Simulation : [MAST]	(l: 30, c: 4)	FC
Tie7_Tmr	Simulation : [MAST]	(l: 35, c: 3)	FC
Tie8_Tmr	Simulation : [MAST]	(l: 40, c: 3)	FC
Tieback_Enable	Simulation : [MAST]	Activation condition: Tieback_Enable	R
Unclmp_Tmr	Main : [MAST]	(l: 47, c: 3)	FC

# Cross References

New\_DFB:

Variables or FB instances

Object	Referred into	Location	Usage
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