

TECHNICAL DOCUMENTATION

Example 6.4

Project	Example 6.4
Designer	
Application	example_6_4_simulation.stu
Software Version	ControlExpert V15.0-SP1
Creation Date	6/14/2023 4:13:50 PM
Last Modification Date	6/14/2023 4:28:43 PM
Target PLC	BMX P34 1000 02.00CPU 340-10 Modbus

MAST

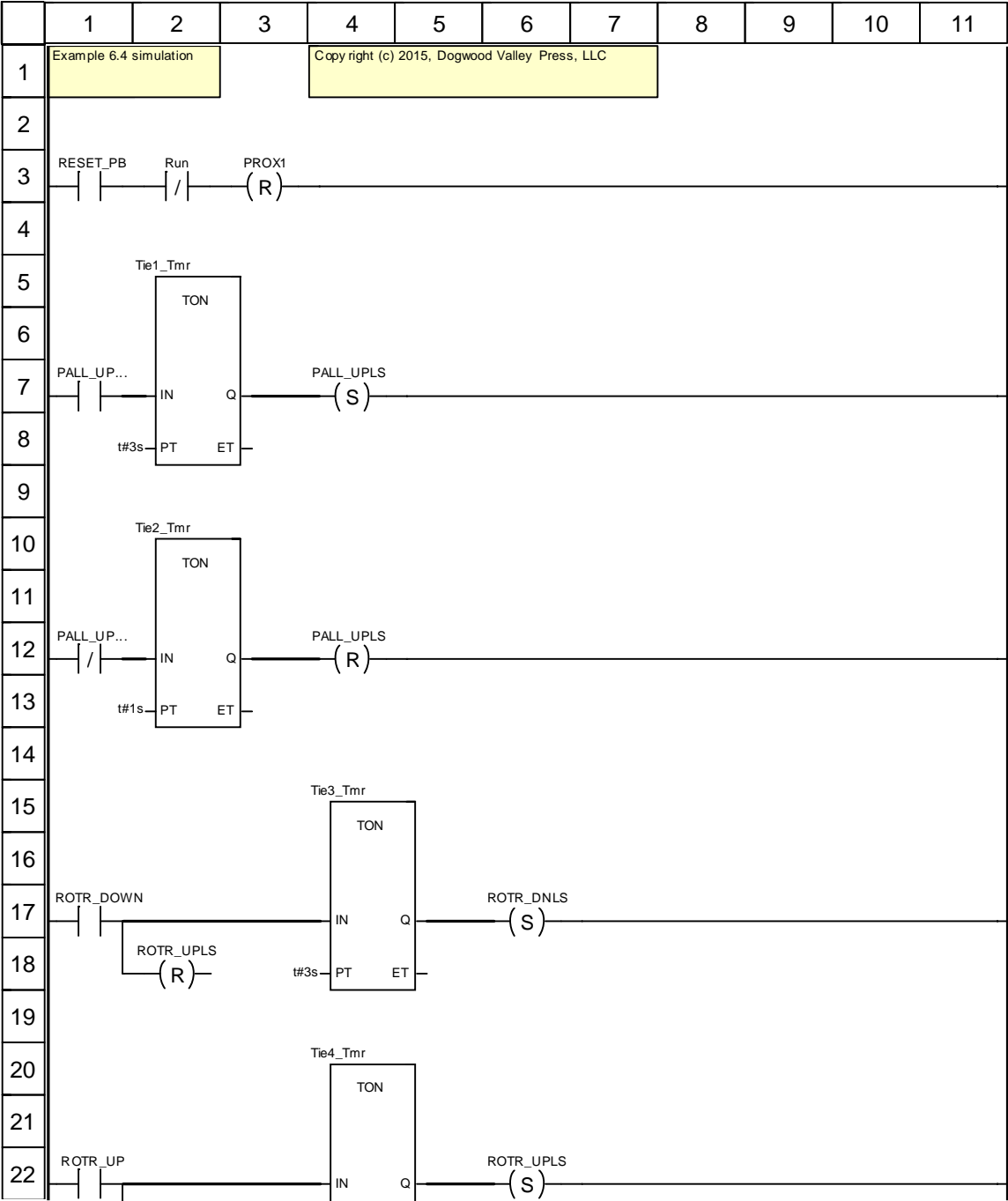
Specific properties

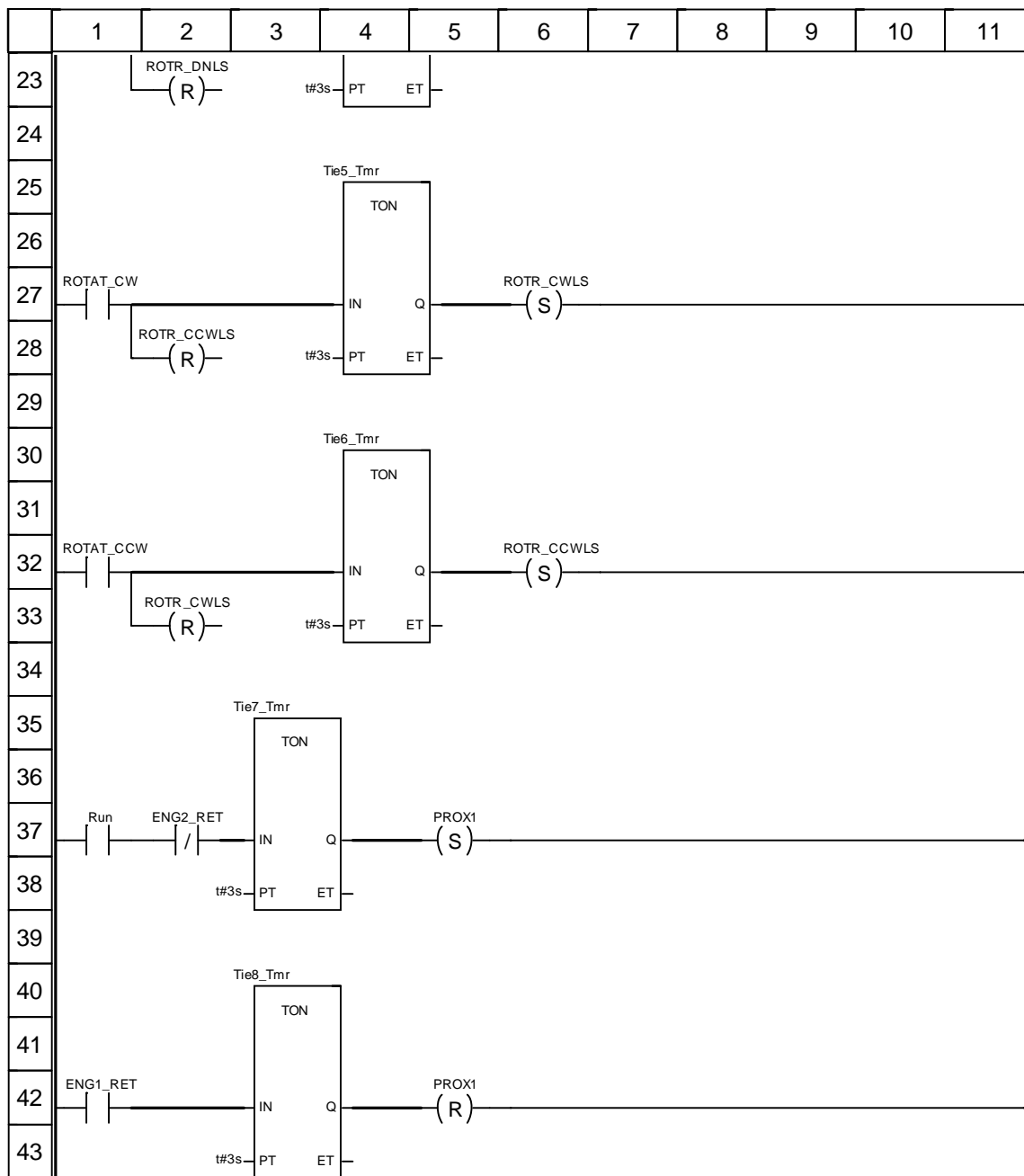
Configuration	Cyclic
Task period configuration	0
Watchdog time configuration	250

Simulation : [MAST]

Specific properties

Condition name	Tieback_Enable
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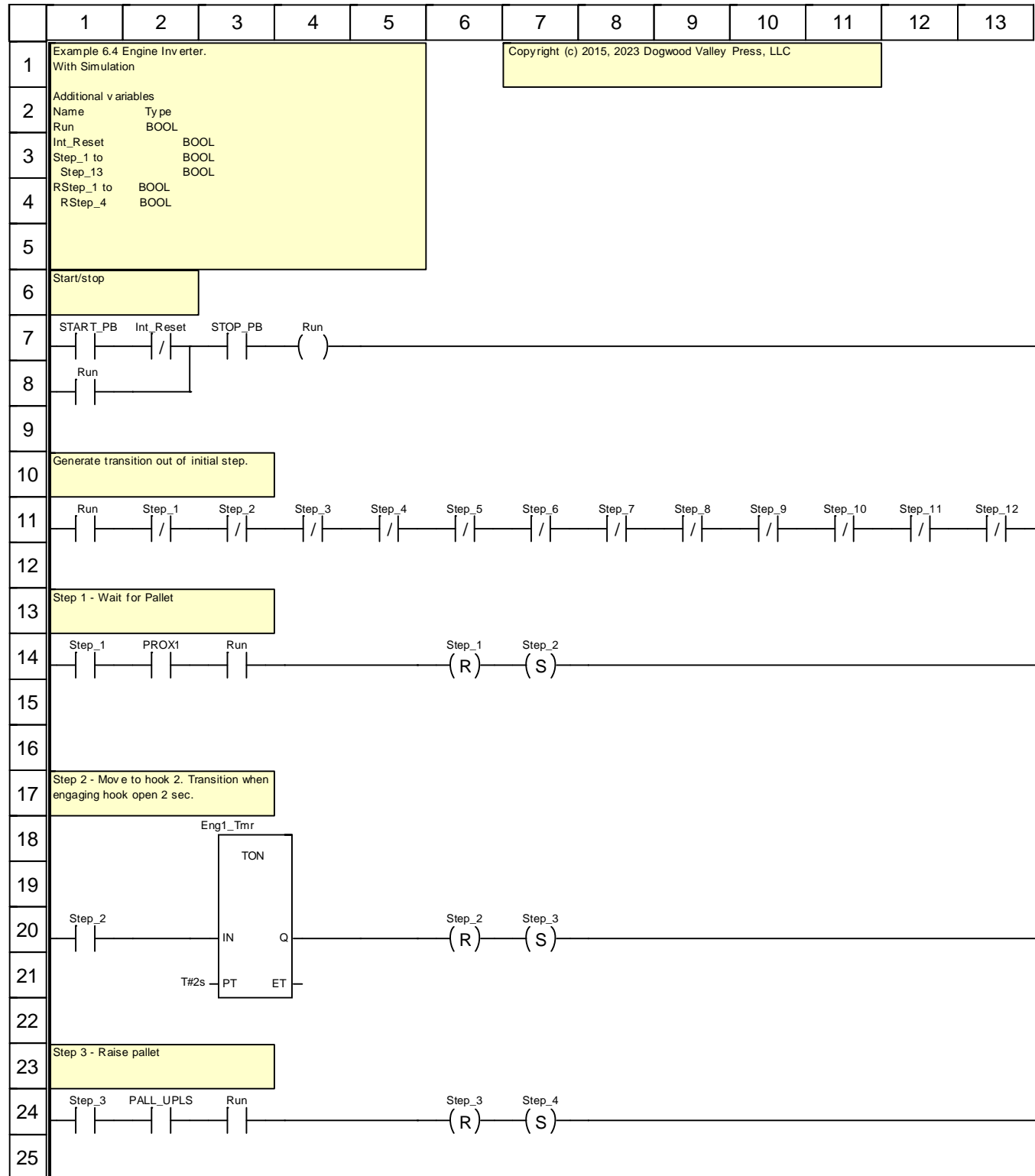




Truncated labels:

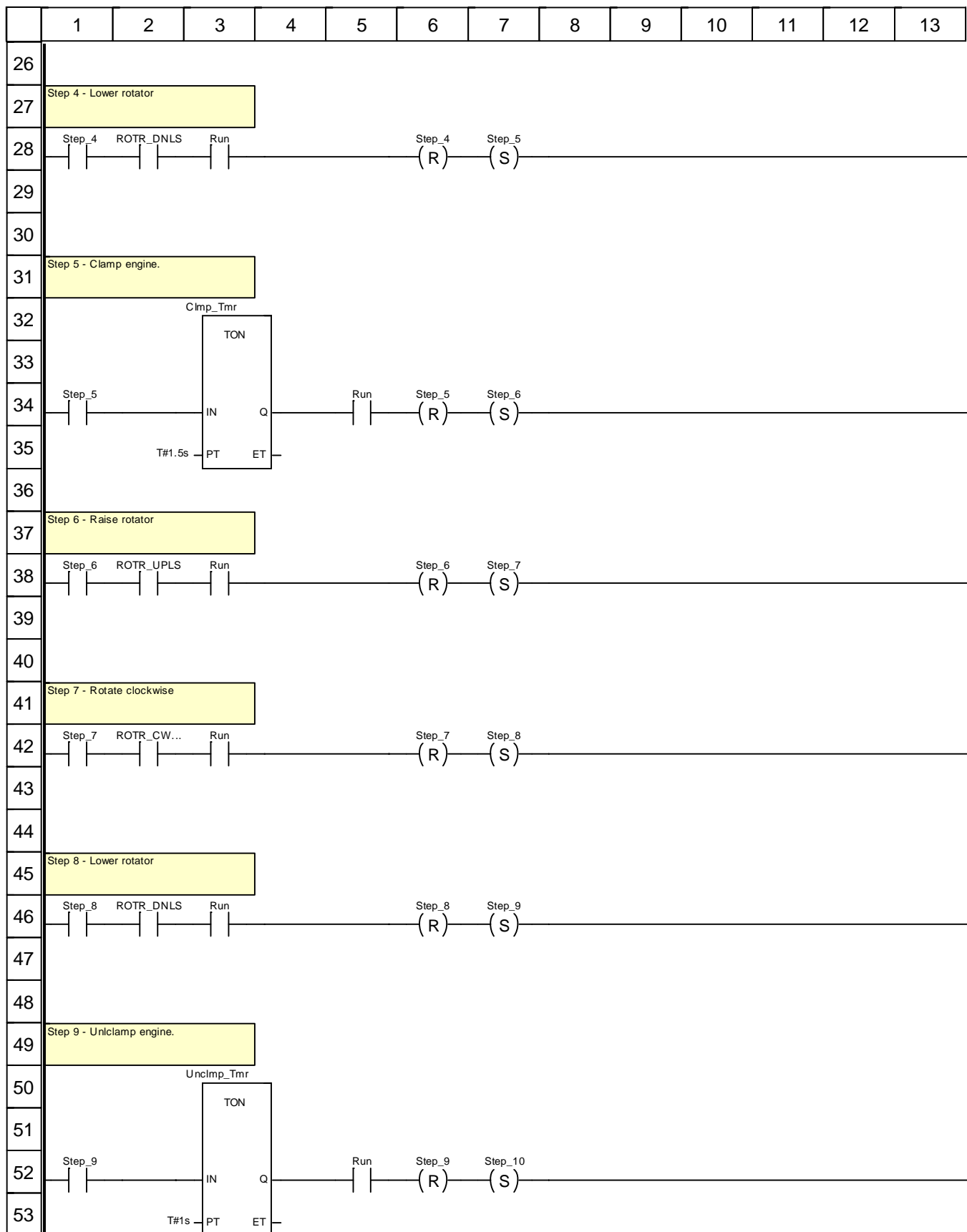
Label	Position(s)
PALL_UPCTL	(1, 7) (1, 12)

Main : [MAST]

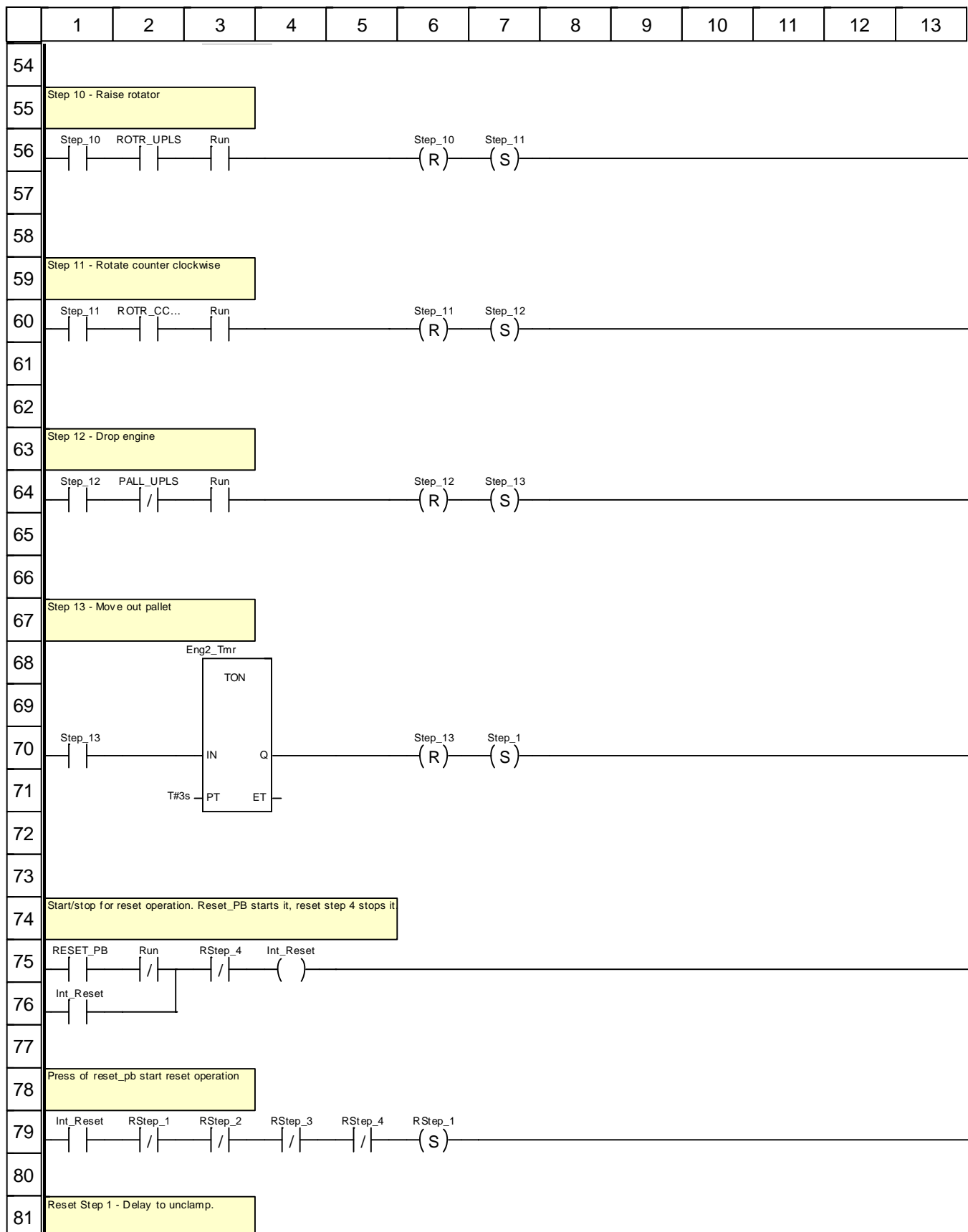


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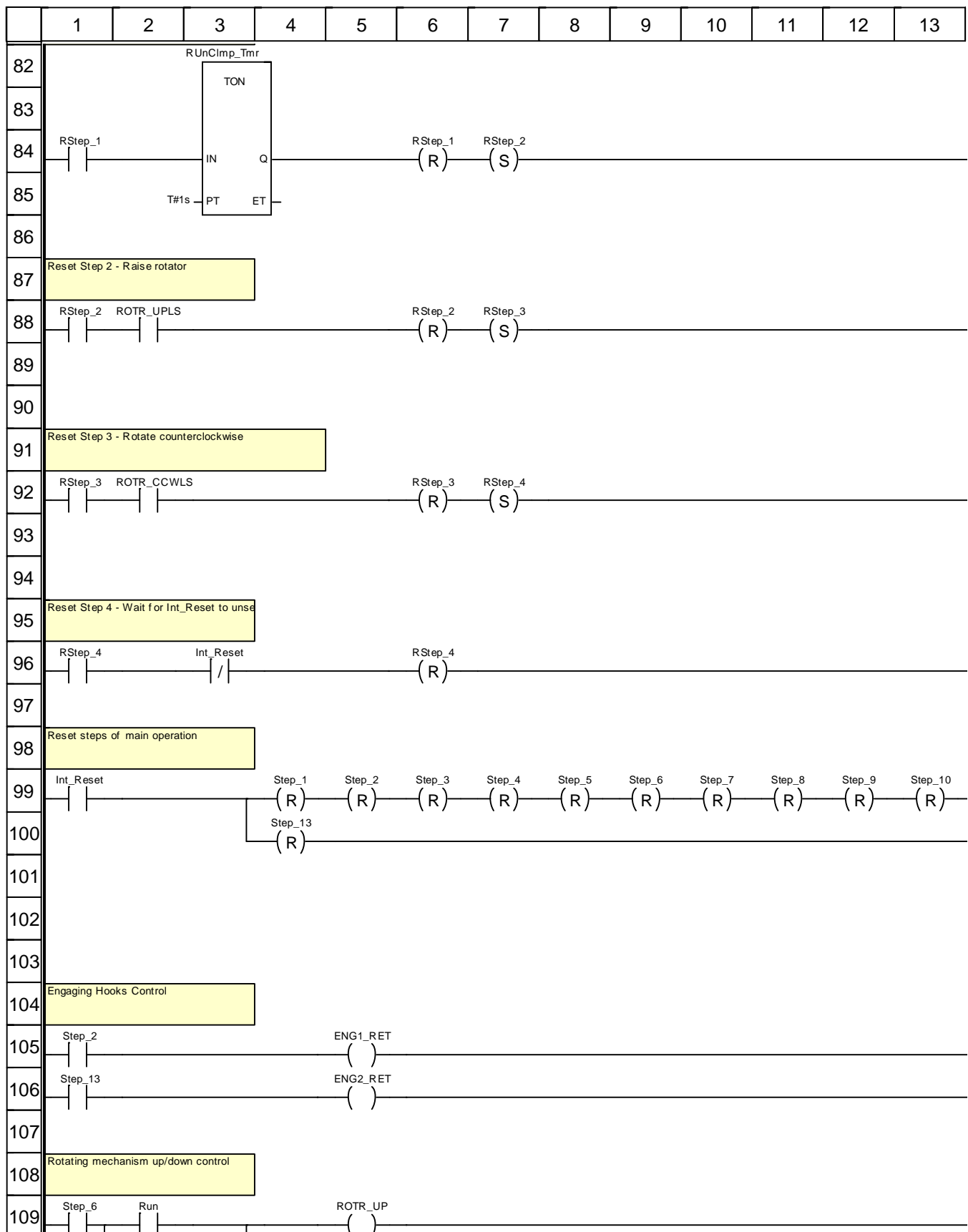
Step_13 Step_1
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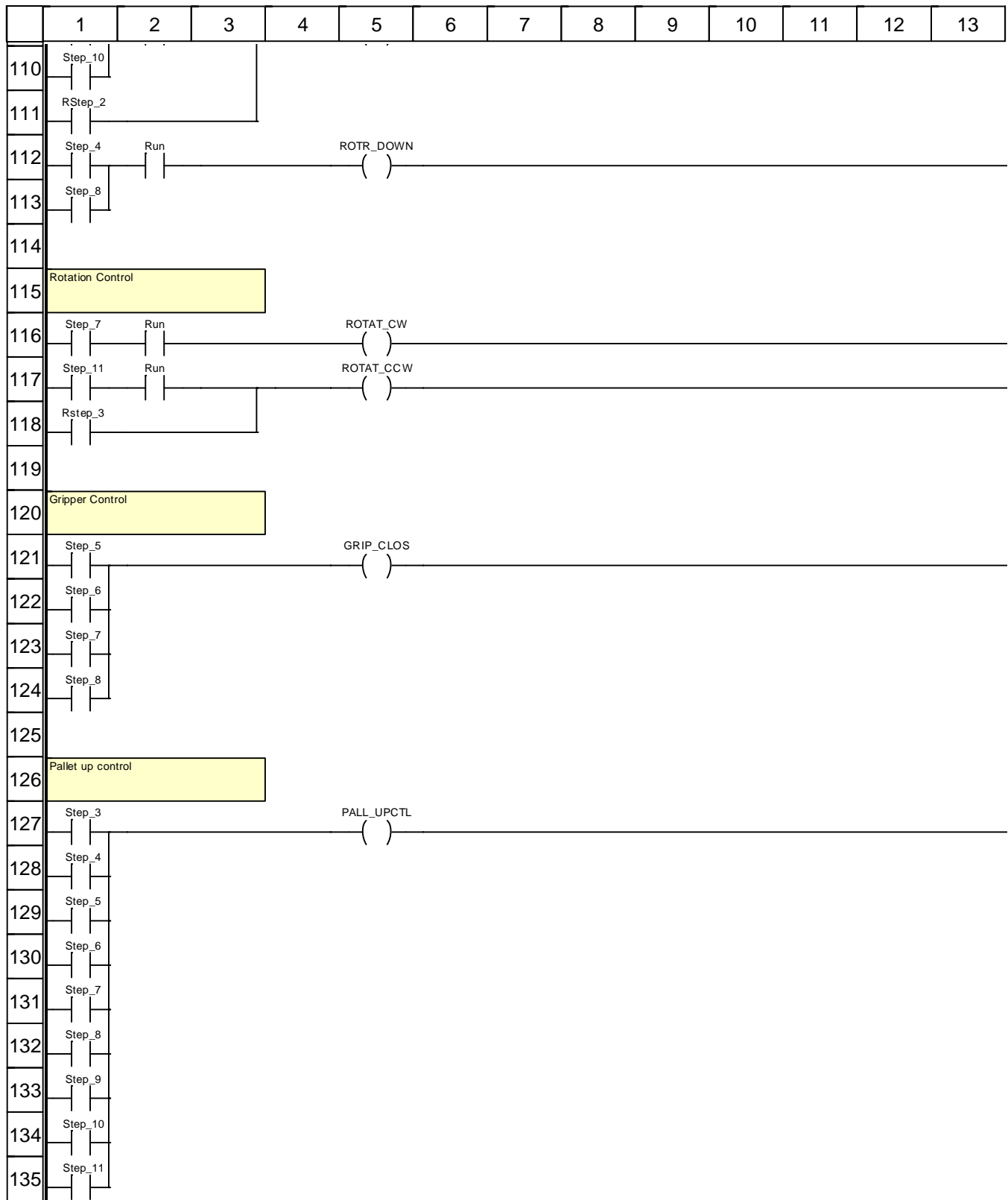
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Truncated labels:

Label	Position(s)
ROTR_CCWLS	(2, 60)

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	Dept.:		
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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 32, c: 3)	FC
ENG1_RET	Simulation : [MAST]	(l 42, c: 1)	R
	Main : [MAST]	(l 105, c: 5)	W
	<Screen>Screen		R (x1)
Eng1_Tmr	Main : [MAST]	(l 18, c: 3)	FC
ENG2_RET	Simulation : [MAST]	(l 37, c: 2)	R
	Main : [MAST]	(l 106, c: 5)	W
	<Screen>Screen		R (x1)
Eng2_Tmr	Main : [MAST]	(l 68, c: 3)	FC
GRIP_CLOS	Main : [MAST]	(l 121, c: 5)	W
	<Screen>Screen		R (x1)
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	Simulation : [MAST]	(l 7, c: 1)	R
		(l 12, c: 1)	R
	Main : [MAST]	(l 127, c: 5)	W
	<Screen>Screen		R (x1)
PALL_UPLS	Simulation : [MAST]	(l 7, c: 4)	W
		(l 12, c: 4)	W
	Main : [MAST]	(l 24, c: 2)	R
		(l 64, c: 2)	R
	<Screen>Screen		R (x1)
PROX1	Simulation : [MAST]	(l 3, c: 3)	W
		(l 37, c: 5)	W
		(l 42, c: 5)	W
	Main : [MAST]	(l 14, c: 2)	R
	<Screen>Screen		R (x1)
RESET_PB	Simulation : [MAST]	(l 3, c: 1)	R
	Main : [MAST]	(l 75, c: 1)	R
ROTAT_CCW	Simulation : [MAST]	(l 32, c: 1)	R
	Main : [MAST]	(l 117, c: 5)	W
	<Screen>Screen		R (x1)
ROTAT_CW	Simulation : [MAST]	(l 27, c: 1)	R
	Main : [MAST]	(l 116, c: 5)	W
	<Screen>Screen		R (x1)
ROTR_CCWLS	Simulation : [MAST]	(l 28, c: 2)	W
		(l 32, c: 6)	W
	Main : [MAST]	(l 60, c: 2)	R
		(l 92, c: 2)	R
	<Screen>Screen		R (x1)
ROTR_CWLS	Simulation : [MAST]	(l 27, c: 6)	W

Cross References

Object	Referred into	Location	Usage
		(l 33, c: 2)	W
	Main : [MAST]	(l 42, c: 2)	R
	<Screen>Screen		R (x1)
ROTR_DNLS	Simulation : [MAST]	(l 17, c: 6)	W
		(l 23, c: 2)	W
	Main : [MAST]	(l 28, c: 2)	R
		(l 46, c: 2)	R
	<Screen>Screen		R (x1)
ROTR_DOWN	Simulation : [MAST]	(l 17, c: 1)	R
	Main : [MAST]	(l 112, c: 5)	W
	<Screen>Screen		R (x1)
ROTR_UP	Simulation : [MAST]	(l 22, c: 1)	R
	Main : [MAST]	(l 109, c: 5)	W
	<Screen>Screen		R (x1)
ROTR_UPLS	Simulation : [MAST]	(l 18, c: 2)	W
		(l 22, c: 6)	W
	Main : [MAST]	(l 38, c: 2)	R
		(l 56, c: 2)	R
		(l 88, c: 2)	R
	<Screen>Screen		R (x1)
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 111, 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 118, 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	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 11, c: 1)	R
		(l 14, c: 3)	R
		(l 24, c: 3)	R
		(l 28, c: 3)	R
		(l 38, c: 3)	R
		(l 42, c: 3)	R
		(l 46, c: 3)	R
		(l 56, c: 3)	R
		(l 60, c: 3)	R
		(l 64, c: 3)	R
		(l 75, c: 2)	R
		(l 109, c: 2)	R

Cross References

Object	Referred into	Location	Usage
		(f 112, c: 2)	R
		(f 116, c: 2)	R
		(f 117, c: 2)	R
		(f 34, c: 5)	R
		(f 52, c: 5)	R
	<Screen>Screen		R (x1)
RUnClmp_Tmr	Main : [MAST]	(f 82, c: 3)	FC
START_PB	Main : [MAST]	(f 7, c: 1)	R
Step_1	Main : [MAST]	(f 11, c: 2)	R
		(f 11, c: 15)	W
		(f 14, c: 1)	R
		(f 14, c: 6)	W
		(f 70, c: 7)	W
		(f 99, c: 4)	W
Step_2	Main : [MAST]	(f 11, c: 3)	R
		(f 20, c: 1)	R
		(f 105, c: 1)	R
		(f 14, c: 7)	W
		(f 20, c: 6)	W
		(f 99, c: 5)	W
Step_3	Main : [MAST]	(f 11, c: 4)	R
		(f 24, c: 1)	R
		(f 127, c: 1)	R
		(f 20, c: 7)	W
		(f 24, c: 6)	W
		(f 99, c: 6)	W
Step_4	Main : [MAST]	(f 11, c: 5)	R
		(f 28, c: 1)	R
		(f 112, c: 1)	R
		(f 128, c: 1)	R
		(f 24, c: 7)	W
		(f 28, c: 6)	W
		(f 99, c: 7)	W
Step_5	Main : [MAST]	(f 11, c: 6)	R
		(f 34, c: 1)	R
		(f 121, c: 1)	R
		(f 129, c: 1)	R
		(f 28, c: 7)	W
		(f 34, c: 6)	W
		(f 99, c: 8)	W
Step_6	Main : [MAST]	(f 11, c: 7)	R
		(f 38, c: 1)	R
		(f 109, c: 1)	R
		(f 122, c: 1)	R
		(f 130, c: 1)	R
		(f 34, c: 7)	W
		(f 38, c: 6)	W
		(f 99, c: 9)	W
Step_7	Main : [MAST]	(f 11, c: 8)	R
		(f 42, c: 1)	R
		(f 116, c: 1)	R
		(f 123, c: 1)	R
		(f 131, c: 1)	R
		(f 38, c: 7)	W
		(f 42, c: 6)	W

Cross References

Object	Referred into	Location	Usage
		(l 99, c: 10)	W
Step_8	Main : [MAST]	(l 11, c: 9)	R
		(l 46, c: 1)	R
		(l 113, c: 1)	R
		(l 124, c: 1)	R
		(l 132, c: 1)	R
		(l 42, c: 7)	W
		(l 46, c: 6)	W
		(l 99, c: 11)	W
Step_9	Main : [MAST]	(l 11, c: 10)	R
		(l 52, c: 1)	R
		(l 133, c: 1)	R
		(l 46, c: 7)	W
		(l 52, c: 6)	W
		(l 99, c: 12)	W
Step_10	Main : [MAST]	(l 11, c: 11)	R
		(l 56, c: 1)	R
		(l 110, c: 1)	R
		(l 134, c: 1)	R
		(l 52, c: 7)	W
		(l 56, c: 6)	W
		(l 99, c: 13)	W
Step_11	Main : [MAST]	(l 11, c: 12)	R
		(l 60, c: 1)	R
		(l 117, c: 1)	R
		(l 135, c: 1)	R
		(l 56, c: 7)	W
		(l 60, c: 6)	W
		(l 99, c: 14)	W
Step_12	Main : [MAST]	(l 11, c: 13)	R
		(l 64, c: 1)	R
		(l 60, c: 7)	W
		(l 64, c: 6)	W
		(l 99, c: 15)	W
Step_13	Main : [MAST]	(l 11, c: 14)	R
		(l 70, c: 1)	R
		(l 106, c: 1)	R
		(l 64, c: 7)	W
		(l 70, c: 6)	W
		(l 100, c: 4)	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
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 50, c: 3)	FC

Cross References

New_DFB:

Variables or FB instances

Object	Referred into	Location	Usage
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