

MAM\_Yaskawa: Move Command for a Relative or Absolute Move, with or without Registration.  
(Requires a constant "ON" input for movement after all parameters are set)

Motion Axis Move

TC\_Move

MAM\_Yaskawa

Motion Axis Move

MAM\_Yaskawa

MAM1

Axis

Axis\_01

Move\_Type

TC\_MoveType

Position

TC\_TargetPosition

Speed

TC\_Speed

Accel\_Rate

TC\_Accel

Decel\_Rate

TC\_Decel

RegistrationUse

A1\_RegUse

Reg\_Position

TC\_RegDistance

Reg\_Speed

TC\_RegSpeed

Reg\_Accel

TC\_RegAccel

Reg\_Decel

TC\_RegDecel

Axis\_FaultCode

0

EN

DN

IP

ER

PC

RegDN

RegIP

RegER

RegPC

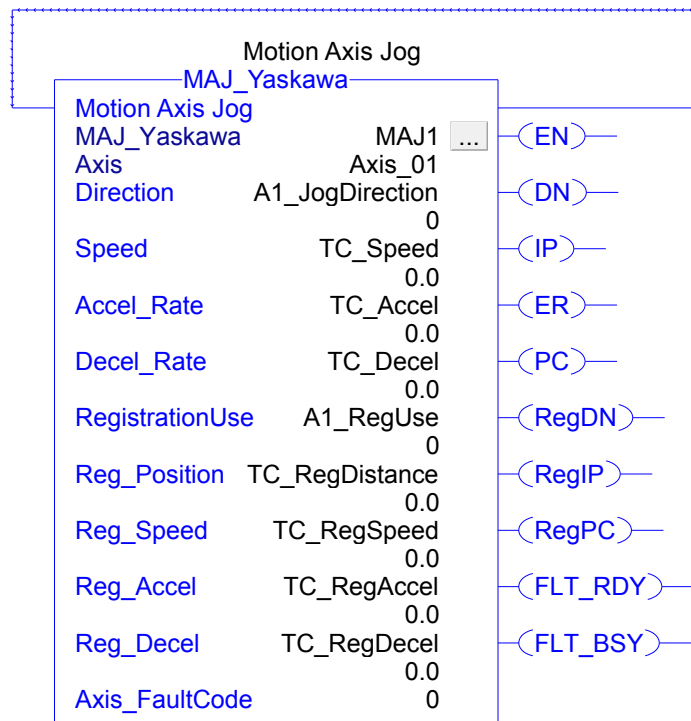
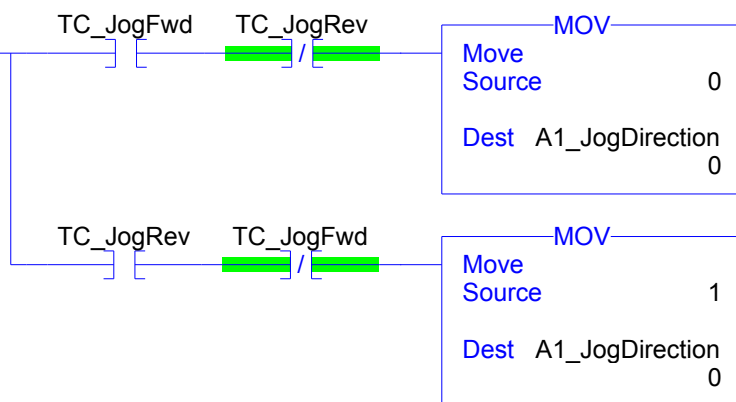
FLT\_PRM

FLT\_RDY

FLT\_BSY

13

Jog Command  
(Requires a constant "ON" input for movement after all parameters are set)  
Releasing the EnableIN will stop the axis automatically.

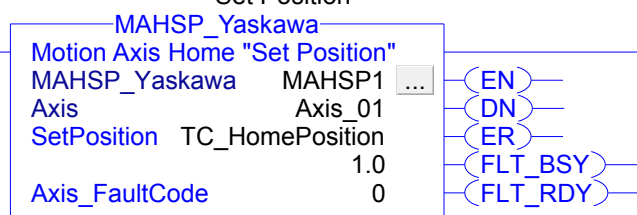


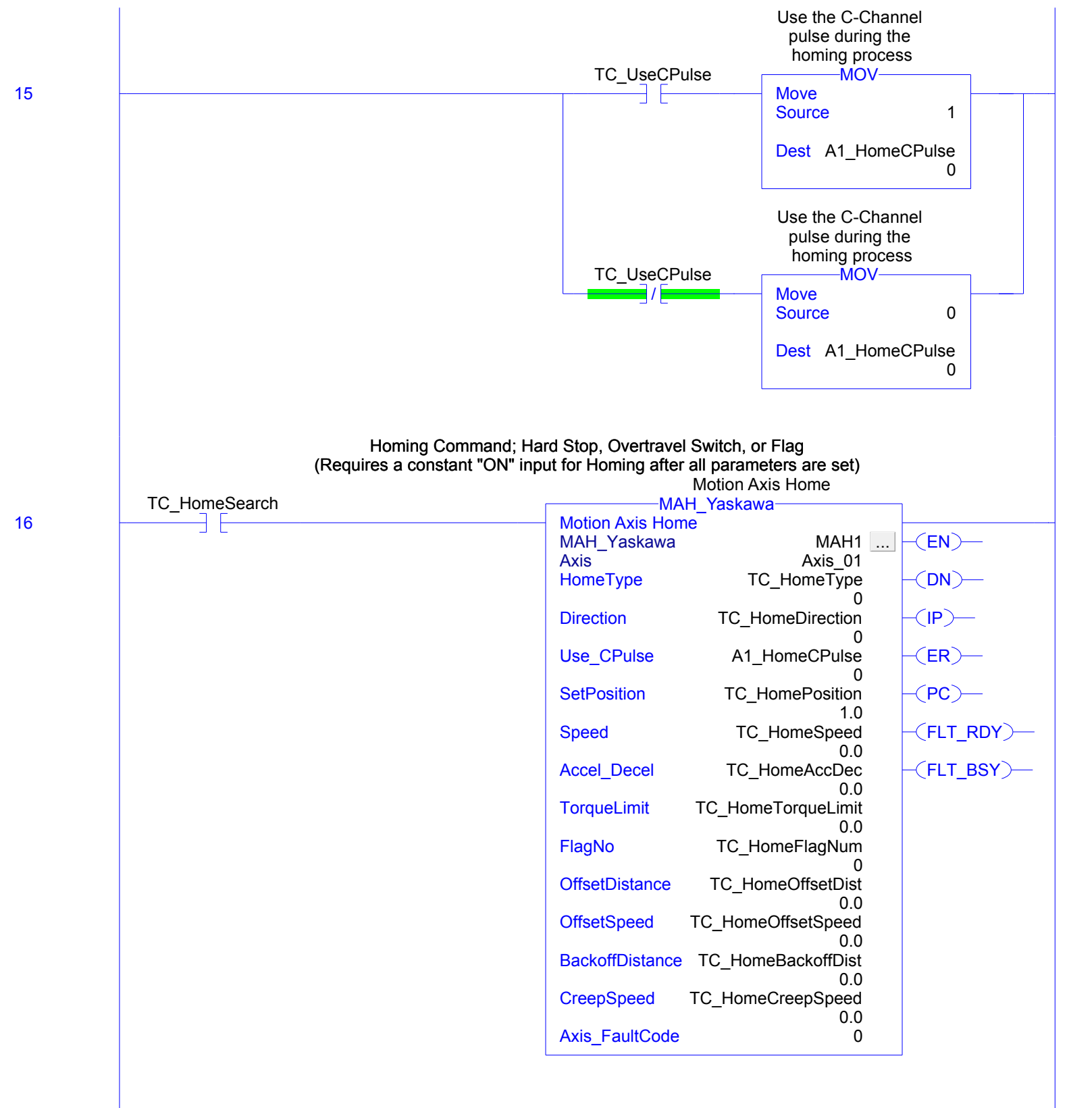
Homing Command to Set the Current Axis Position to Input Parameter.  
(Can also be done with MAH\_Yaskawa, Home Type = 0)

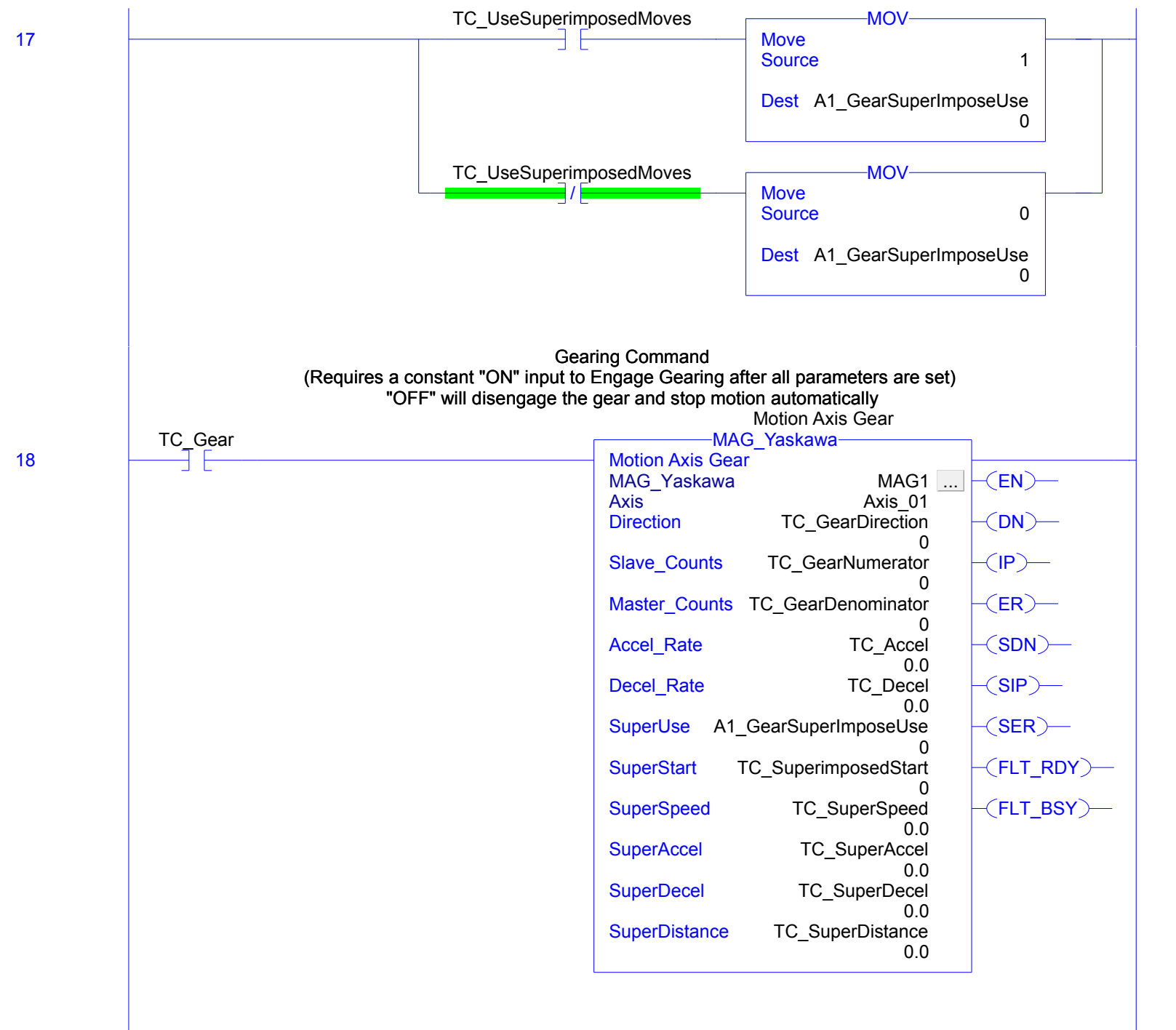
Motion Axis Home  
"Set Position"

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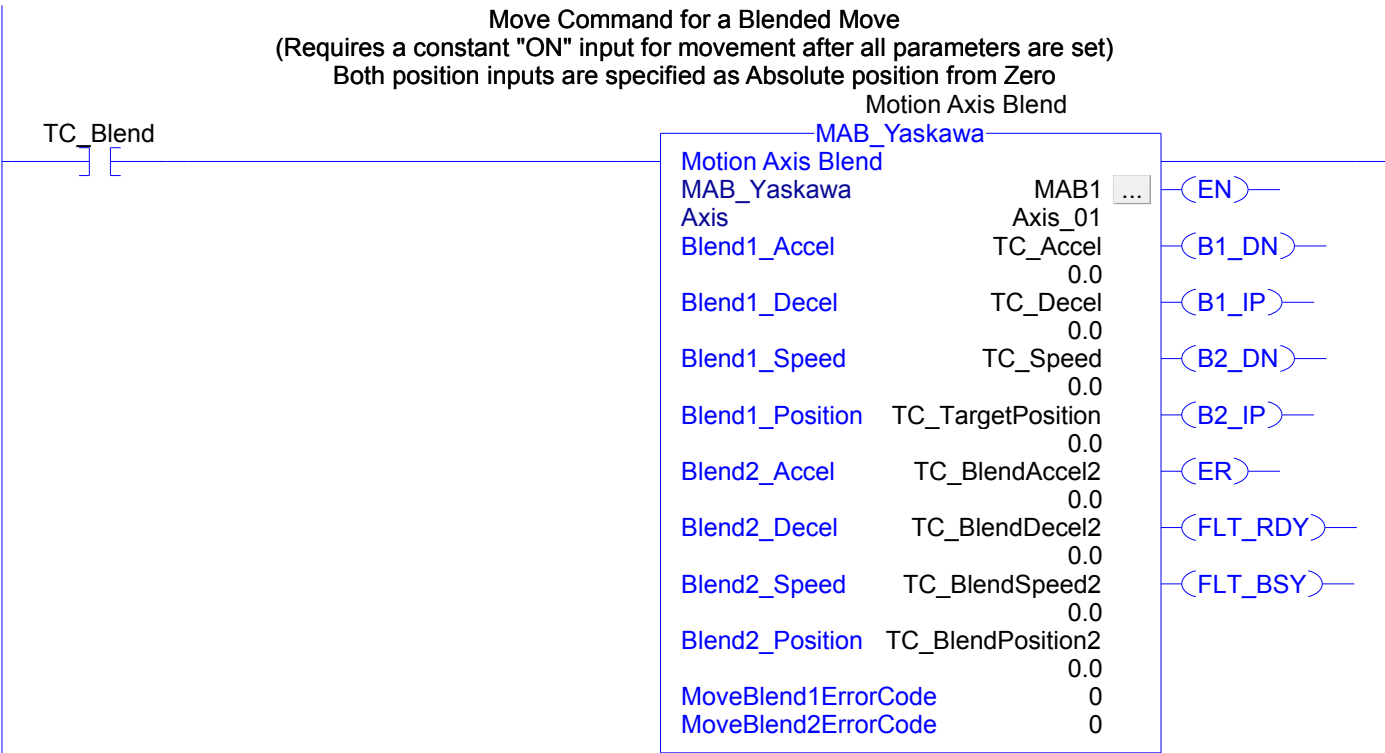
TC\_SetPosition



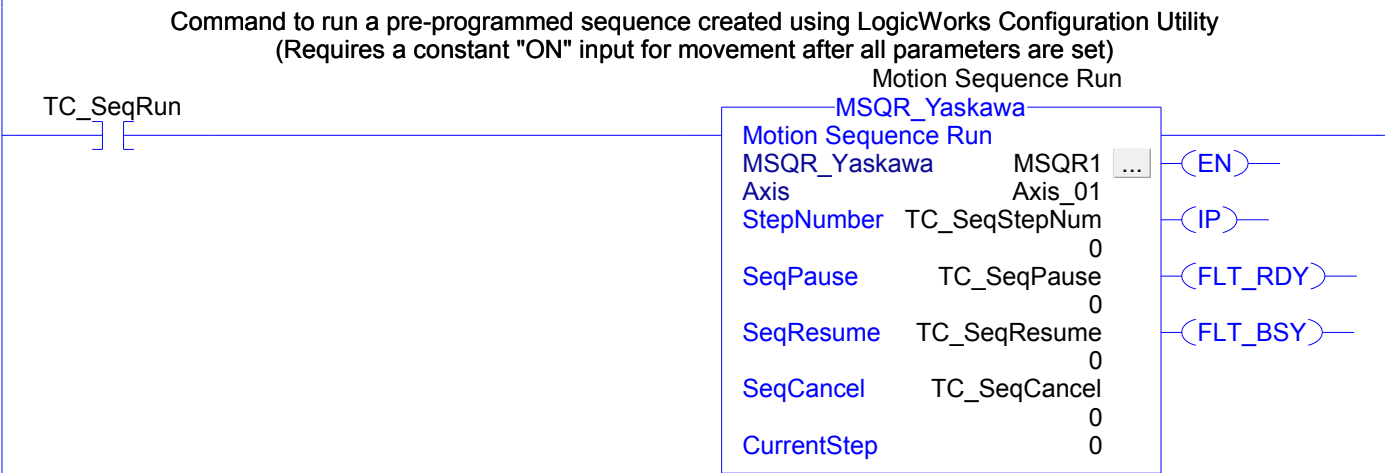




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Command to Edit the Speed or Distance (or both) of a specified Step Number in the Sequence Table of the SigmaLogic axis.

(Requires a constant "ON" input for editing after all parameters are set)

Motion Sequence Edit

TC\_SeqEdit

MSQE\_Yaskawa

Motion Sequence Edit

MSQE\_Yaskawa

MSQE1

...

(EN)

Axis

Axis\_01

(DN)

SeqEditType

TC\_SeqEditType

0

(ER)

SeqEditStepNo

TC\_SeqEditStepNum

0

(FLT\_BSY)

SeqEditSpeed

TC\_Speed

0.0

SeqEditDistance

TC\_TargetPosition

0.0

Command to run a High Speed Index

(Requires a constant "ON" input for movement after all parameters are set)

Motion Axis High

Speed Index

TC\_HighSpeedIndexRun

MHSI\_Yaskawa

Motion Axis High Speed Index

MHSI\_Yaskawa

MHSI1

...

(EN)

Axis

Axis\_01

(DN)

MoveMode

TC\_HSIMoveMode

0

(IP)

MoveType

TC\_HSIMoveType

0

(ER)

RepeatNumber

TC\_HSIRepeatNumber

0

(MV)

CalcMethod

TC\_HSICalcMethod

0

(DW)

Distance

TC\_HSIDistance

0.0

(FLT\_RDY)

Speed

TC\_HSISpeed

0.0

(FLT\_BSY)

Accel

TC\_HSIAccel

0.0

MoveTime

TC\_HSIMoveTime

0

DwellTime

TC\_HSIDwellTime

0

Direction

TC\_HSIDirection

0

TriggerFlagAssign

TC\_HSITriggerFlagNum

0

MovingFlagAssign

TC\_HSIMovingFlagNum

0

DwellingFlagAssign

TC\_HSIDwellingFlagNum

0

DoneFlagAssign

TC\_HSIDoneFlagNum

0

Axis\_FaultCode

0



Command to run the axis in Torque Mode  
(Requires a constant "ON" input for movement after all parameters are set.  
Setting EnableIn to "OFF" will stop the axis and full torque will be applied to hold position.)

Axis Torque Control

TC\_TorqueMode

MTRQ\_Yaskawa

Motion Axis Torque Control

MTRQ\_Yaskawa

MTRQ1

...

(EN)

Axis

Axis\_01

(IP)

Torque\_Limit

TC\_TorqueLimit

0.0

(ER)

Torque\_Ramp

TC\_TorqueRamp

0.0

(FLT\_RDY)

Speed\_Limit

TC\_TorqueSpeedLimit

0.0

(FLT\_BSY)

Accel\_Rate

TC\_Accel

0.0

Decel\_Rate

TC\_Decel

0.0

Axis\_FaultCode

0

Command to enable Programmable Limit Switch Outputs  
(Requires a constant "ON" input after all parameters are set.  
Output On and Off positions and compensation may be changed on the fly.  
Flag numbers cannot be changed on the fly or improper operation will be observed)

Structure of  
parameters needed  
for PLS switch  
operation using  
MPLS\_Yaskawa Assigns  
a Flag number to the  
PLS output channel.  
Must be a physical  
output Flag 73-80,  
88-90.

MOV

Move  
Source TC\_PLSOutputFlag1  
0  
Dest Switch1.FlagNumber  
0

Structure of  
parameters needed  
for PLS switch  
operation using  
MPLS\_Yaskawa If  
OnPosition <  
OffPosition output  
is ON between them.  
If OnPosition >  
OffPosition output  
is OFF between them  
and ON everywhere  
else.

MOV

Move  
Source TC\_PLSONPosition1  
0.0  
Dest Switch1.OnPosition  
0.0

Structure of  
parameters needed  
for PLS switch  
operation using  
MPLS\_Yaskawa

MOV

Move  
Source TC\_PLSoFFPosition1  
0.0  
Dest Switch1.OffPosition  
0.0

Structure of  
parameters needed  
for PLS switch  
operation using  
MPLS\_Yaskawa Assigns  
a Flag number to the  
PLS output channel.  
Must be a physical  
output Flag 73-80,  
88-90.

MOV

Move  
Source TC\_PLSOutputFlag2  
0  
Dest Switch2.FlagNumber  
0

Structure of  
parameters needed  
for PLS switch  
operation using  
MPLS\_Yaskawa If  
OnPosition <  
OffPosition output  
is ON between them.  
If OnPosition >  
OffPosition output  
is OFF between them  
and ON everywhere  
else.

MOV

Move  
Source TC\_PLSONPosition2  
0.0  
Dest Switch2.OnPosition  
0.0

Structure of  
parameters needed  
for PLS switch  
operation using  
MPLS\_Yaskawa

MOV

Move  
Source TC\_PLSoFFPosition2  
0.0  
Dest Switch2.OffPosition  
0.0

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Structure of  
parameters needed  
for PLS switch  
operation using  
MPLS\_Yaskawa Assigns  
a Flag number to the  
PLS output channel.  
Must be a physical  
output Flag 73-80,  
88-90.

MOV

Move  
Source TC\_PLSOutputFlag3  
0  
Dest Switch3.FlagNumber  
0

Structure of  
parameters needed  
for PLS switch  
operation using  
MPLS\_Yaskawa If  
OnPosition <  
OffPosition output  
is ON between them.  
If OnPosition >  
OffPosition output  
is OFF between them  
and ON everywhere  
else.

MOV

Move  
Source TC\_PLSONPosition3  
0.0  
Dest Switch3.OnPosition  
0.0

Structure of  
parameters needed  
for PLS switch  
operation using  
MPLS\_Yaskawa

MOV

Move  
Source TC\_PLSoFFPosition3  
0.0  
Dest Switch3.OffPosition  
0.0

Structure of  
parameters needed  
for PLS switch  
operation using  
MPLS\_Yaskawa Assigns  
a Flag number to the  
PLS output channel.  
Must be a physical  
output Flag 73-80,  
88-90.

MOV

Move  
Source TC\_PLSOutputFlag4  
0  
Dest Switch4.FlagNumber  
0

Structure of  
parameters needed  
for PLS switch  
operation using  
MPLS\_Yaskawa If  
OnPosition <  
OffPosition output  
is ON between them.  
If OnPosition >  
OffPosition output  
is OFF between them  
and ON everywhere  
else.

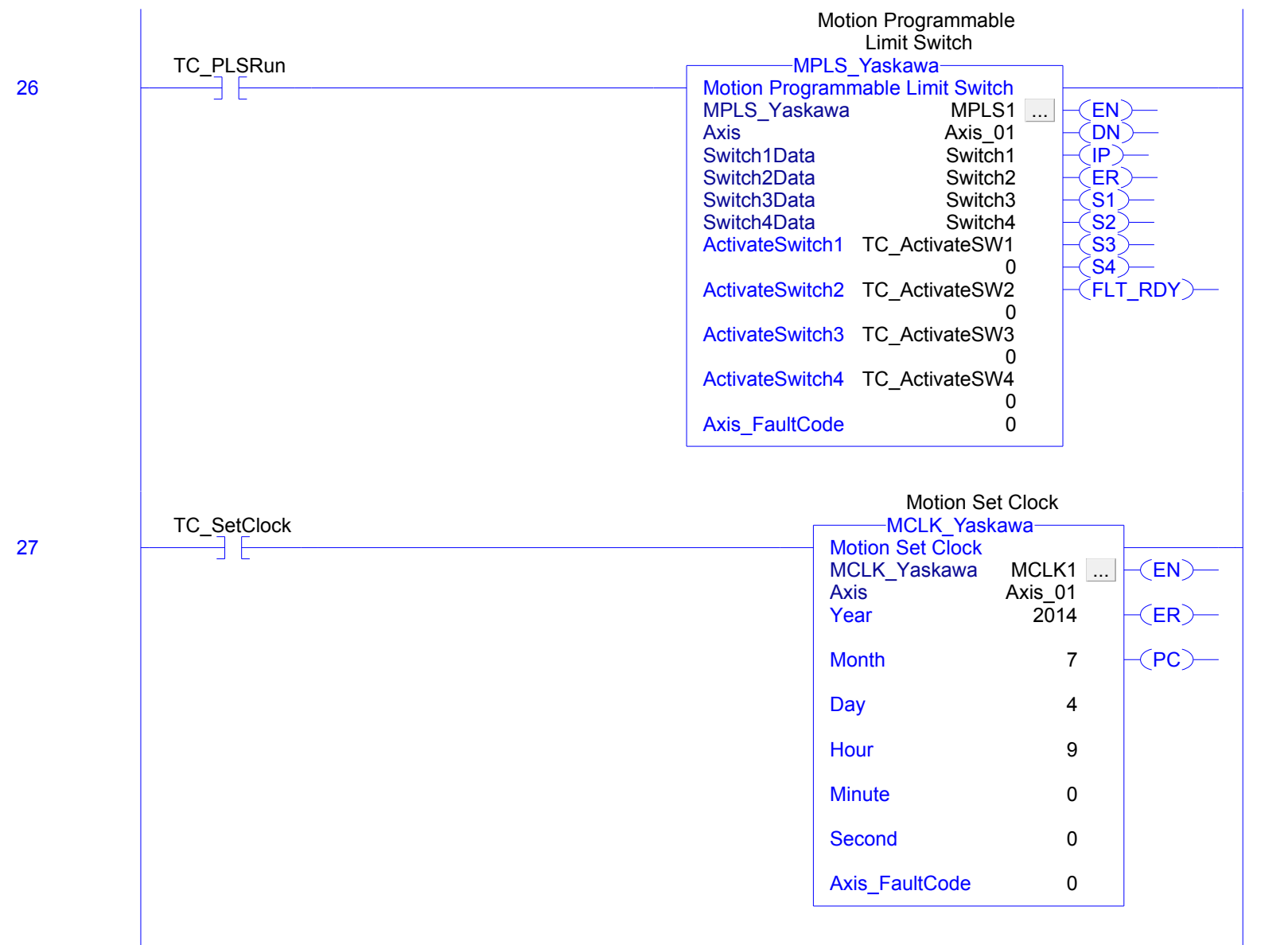
MOV

Move  
Source TC\_PLSONPosition4  
0.0  
Dest Switch4.OnPosition  
0.0

Structure of  
parameters needed  
for PLS switch  
operation using  
MPLS\_Yaskawa

MOV

Move  
Source TC\_PLSoFFPosition4  
0.0  
Dest Switch4.OffPosition  
0.0



Write to the Controller Digital Outputs  
as commanded by the Test Case Controller.  
Only the lower bits 0-7 are used.

Yaskawa SigmaLogic  
Axis Structure  
Digital Output  
commands.  
Bits 0-7 correspond  
to CN13 Digital  
Outputs 0-7, used as  
Flag 73-80.  
Bits 8-10 correspond  
to CN1 Digital  
Outputs 0-2 used as  
Flag 88-90"

BTD

Bit Field Distribute

Source	TC_DOCmd
Source Bit	0
Dest	Axis_01.O.DigitalOutCommandBits
Dest Bit	0
Length	16

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(End)