

000000
(000056)

[Program Name : ClipInsertion]

[Section Name : ErrorHandler]

Preset error pointers to lowest priority messages

CF113

P_On
Always ON
Flag

MOV
(021)

&15
ErrorMessage
e15

D103
ErrorPointer
1

[OP1]
Blank line to clear display when there are no errors present

[OP2]
Pointer used for interim error message assignments
<cD00103>
c062 c064 c066 c068 c072 c075 c078 c082 c084 c087 c090 c093 c095
c097 c099 c100 c101 c108 c109 c117

MOV
(021)

&15
ErrorMessage
e15

D104
ErrorPointer
2

[OP1]
Blank line to clear display when there are no errors present

[OP2]
Pointer used for interim error message assignments
<cD00104>
c102 c103 c110 c111 c118

MOV
(021)

&15
ErrorMessage
e15

D105
ErrorPointer
3

[OP1]
Blank line to clear display when there are no errors present

[OP2]
Pointer used for interim error message assignments
<cD00105>
c104 c105 c112 c113 c119

MOV
(021)

&15
ErrorMessage
e15

D106
ErrorPointer
4

[OP1]
Blank line to clear display when there are no errors present

[OP2]
Pointer used for interim error message assignments
<cD00106>
c062 c064 c066 c068 c072 c075 c078 c082 c084 c087 c090 c093 c095
c097 c099 c106 c107 c114 c115 c120

000001
(000061)

Error 15: Blank line to clear display when there are no errors present

CF113

P_On
Always ON
Flag

WSFT
(016)

&15
ErrorMessage
e15

D103
ErrorPointer
1

D106
ErrorPointer
4

[OP1]
Blank line to clear display when there are no errors present

[OP2]
Pointer used for interim error message assignments
<cD00103>
c057 c064 c066 c068 c072 c075 c078 c082 c084 c087 c090 c093 c095
c097 c099 c100 c101 c108 c109 c117

[OP3]
Pointer used for interim error message assignments
<cD00106>
c060 c064 c066 c068 c072 c075 c078 c082 c084 c087 c090 c093 c095
c097 c099 c106 c107 c114 c115 c120

000002
(000063)

Error 14: Blank line to clear display when there are no errors present

CF113

P_On
Always ON
Flag

WSFT
(016)

&14
ErrorMessage
e14

D103
ErrorPointer
1

D106
ErrorPointer
4

[OP1]
Blank line to clear display when there are no errors present

[OP2]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c066 c068 c072 c075 c078 c082 c084 c087 c090 c093 c095
c097 c099 c100 c101 c108 c109 c117

[OP3]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c066 c068 c072 c075 c078 c082 c084 c087 c090 c093 c095
c097 c099 c106 c107 c114 c115 c120

000003
(000065)

Error 13: Blank line to clear display when there are no errors present

CF113

P_On
Always ON
Flag

WSFT
(016)

&13
ErrorMessage
e13

D103
ErrorPointer
1

D106
ErrorPointer
4

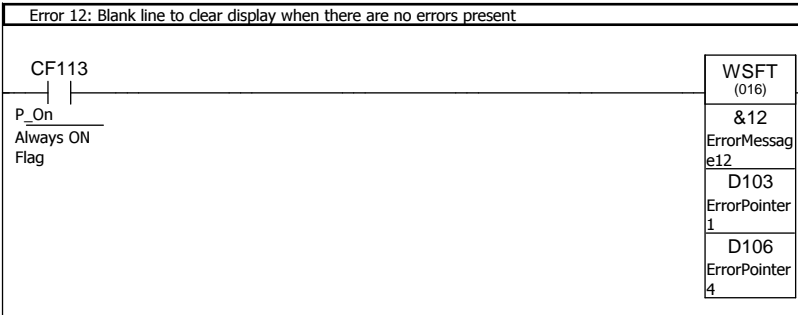
[OP1]
Blank line to clear display when there are no errors present

[OP2]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c064 c068 c072 c075 c078 c082 c084 c087 c090 c093 c095
c097 c099 c100 c101 c108 c109 c117

[OP3]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c068 c072 c075 c078 c082 c084 c087 c090 c093 c095
c097 c099 c106 c107 c114 c115 c120

| | | | | | |
|--------|-------------------------------|----------|-----------|-------------|----------|
| Title | Clip Insertion Sample Program | Author | A. Zeeman | Step Number | 000056 |
| Number | | Revision | 1 | Date | 5/2/2010 |

000004
(000067)

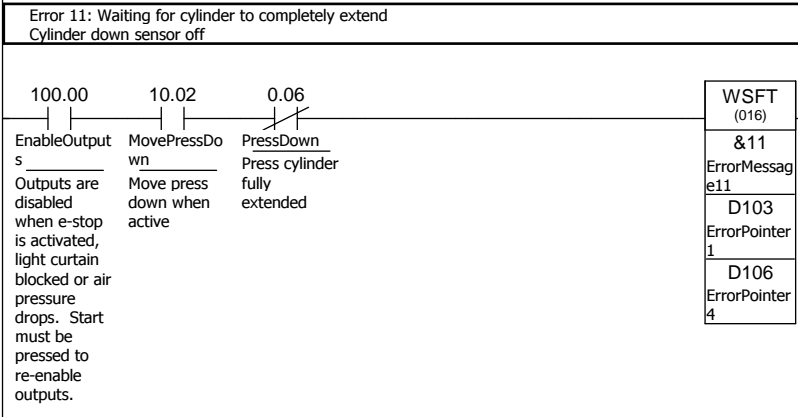


[OP1]
Blank line to clear display when there are no errors present

[OP2]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c064 c066 c072 c075 c078 c082 c084 c087 c090 c093 c095 c097 c099 c100 c101 c108 c109 c117

[OP3]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c066 c072 c075 c078 c082 c084 c087 c090 c093 c095 c097 c099 c106 c107 c114 c115 c120

000005
(000069)

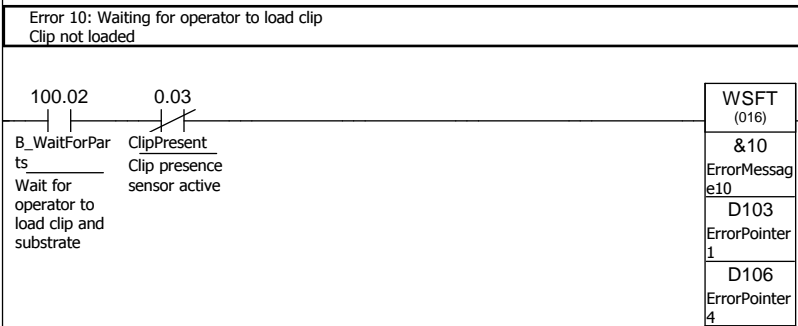


[OP1]
Waiting for cylinder to completely extend

[OP2]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c064 c066 c068 c075 c078 c082 c084 c087 c090 c093 c095 c097 c099 c100 c101 c108 c109 c117

[OP3]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c066 c068 c075 c078 c082 c084 c087 c090 c093 c095 c097 c099 c106 c107 c114 c115 c120

000006
(000073)

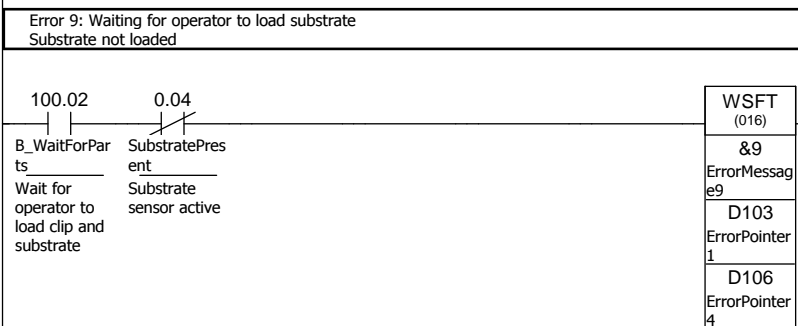


[OP1]
Waiting for operator to load clip

[OP2]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c064 c066 c068 c072 c078 c082 c084 c087 c090 c093 c095 c097 c099 c100 c101 c108 c109 c117

[OP3]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c066 c068 c072 c078 c082 c084 c087 c090 c093 c095 c097 c099 c106 c107 c114 c115 c120

000007
(000076)

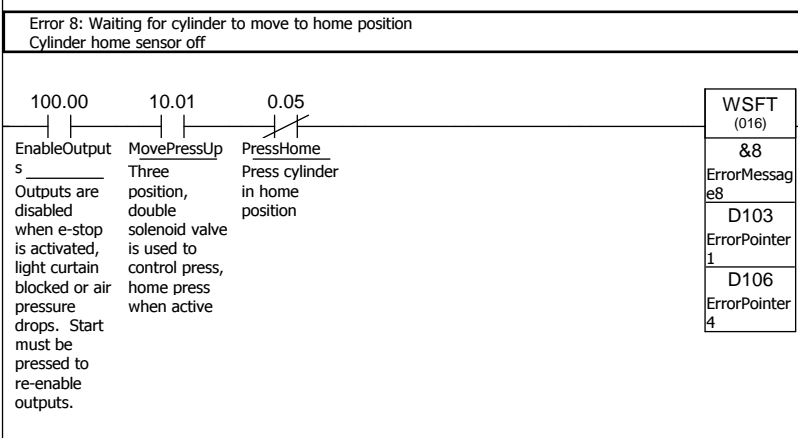


[OP1]
Waiting for operator to load substrate

[OP2]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c064 c066 c068 c072 c075 c082 c084 c087 c090 c093 c095 c097 c099 c100 c101 c108 c109 c117

[OP3]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c066 c068 c072 c075 c082 c084 c087 c090 c093 c095 c097 c099 c106 c107 c114 c115 c120

000008
(000079)



[OP1]
Waiting for cylinder to move to home position

[OP2]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c064 c066 c068 c072 c075 c078 c084 c087 c090 c093 c095 c097 c099 c100 c101 c108 c109 c117

[OP3]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c066 c068 c072 c075 c078 c084 c087 c090 c093 c095 c097 c099 c106 c107 c114 c115 c120

| | | | | | |
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| Title | Clip Insertion Sample Program | Author | A. Zeeman | Step Number | 000067 |
| Number | | Revision | 1 | Date | 5/2/2010 |

000009
(000083)

Error 7: OutputEnable bit is latched off
Press start to enable cycle

100.00

EnableOutput
s
Outputs are disabled when e-stop is activated, light curtain blocked or air pressure drops. Start must be pressed to re-enable outputs.

| |
|---------------|
| WSFT (016) |
| &7 |
| ErrorMessage7 |
| D103 |
| ErrorPointer1 |
| D106 |
| ErrorPointer4 |

[OP1]
OutputEnable bit is latched off
[OP2]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c064 c066 c068 c072 c075 c078 c082 c087 c090 c093 c095 c097 c099 c100 c101 c108 c109 c117
[OP3]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c066 c068 c072 c075 c078 c082 c087 c090 c093 c095 c097 c099 c106 c107 c114 c115 c120

000010
(000085)

Error 6: Either cylinder home or cylinder down sensor is stuck on
Cylinder home and down sensors on

0.05

0.06

PressHome PressDown
Press cylinder in home position Press cylinder fully extended

| |
|---------------|
| WSFT (016) |
| &6 |
| ErrorMessage6 |
| D103 |
| ErrorPointer1 |
| D106 |
| ErrorPointer4 |

[OP1]
Either cylinder home or cylinder down sensor is stuck on
[OP2]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c064 c066 c068 c072 c075 c078 c082 c084 c090 c093 c095 c097 c099 c100 c101 c108 c109 c117
[OP3]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c066 c068 c072 c075 c078 c082 c084 c090 c093 c095 c097 c099 c106 c107 c114 c115 c120

000011
(000088)

Error 5: Substrate present sensor must be off at start of cycle
Substrate presence sensor stuck on

100.01

0.04

B_Initialize SubstratePresent
Wait for part sensors off and press cylinder home Substrate sensor active

| |
|---------------|
| WSFT (016) |
| &5 |
| ErrorMessage5 |
| D103 |
| ErrorPointer1 |
| D106 |
| ErrorPointer4 |

[OP1]
Substrate present sensor must be off at start of cycle
[OP2]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c064 c066 c068 c072 c075 c078 c082 c084 c087 c093 c095 c097 c099 c100 c101 c108 c109 c117
[OP3]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c066 c068 c072 c075 c078 c082 c084 c087 c093 c095 c097 c099 c106 c107 c114 c115 c120

000012
(000091)

Error 4: Clip present sensor must be off at start of cycle
Clip presence sensor stuck on

100.01

0.03

B_Initialize ClipPresent
Wait for part sensors off and press cylinder home Clip presence sensor active

| |
|---------------|
| WSFT (016) |
| &4 |
| ErrorMessage4 |
| D103 |
| ErrorPointer1 |
| D106 |
| ErrorPointer4 |

[OP1]
Clip present sensor must be off at start of cycle
[OP2]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c064 c066 c068 c072 c075 c078 c082 c084 c087 c090 c095 c097 c099 c100 c101 c108 c109 c117
[OP3]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c066 c068 c072 c075 c078 c082 c084 c087 c090 c095 c097 c099 c106 c107 c114 c115 c120

000013
(000094)

Error 3: Light curtain blocked
Light curtain blocked

0.01

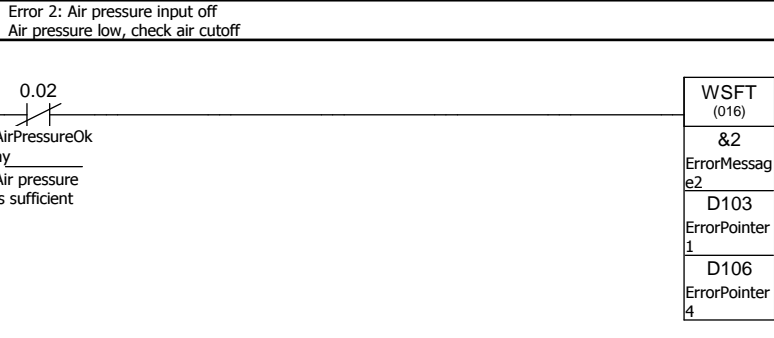
LightCurtain
Light curtain clear

| |
|---------------|
| WSFT (016) |
| &3 |
| ErrorMessage3 |
| D103 |
| ErrorPointer1 |
| D106 |
| ErrorPointer4 |

[OP1]
Light curtain blocked
[OP2]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c064 c066 c068 c072 c075 c078 c082 c084 c087 c090 c093 c097 c099 c100 c101 c108 c109 c117
[OP3]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c066 c068 c072 c075 c078 c082 c084 c087 c090 c093 c097 c099 c106 c107 c114 c115 c120

| | | | | |
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| Title | Clip Insertion Sample Program | Author | A. Zeeman | Step Number |
| Number | | Revision | 1 | Date |
| | | | 5/2/2010 | 000083 |

000014
(000096)

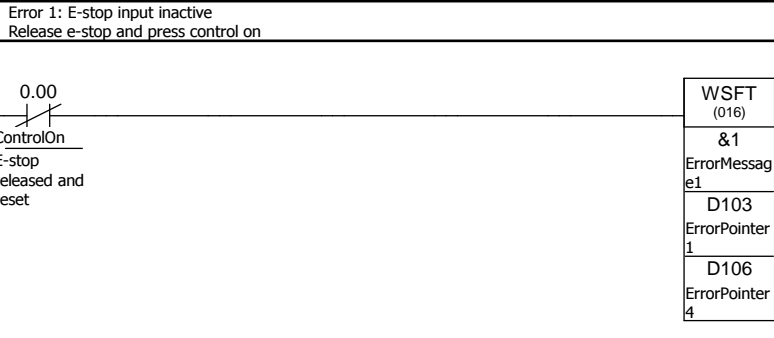


[OP1]
Air pressure input off

[OP2]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c064 c066 c068 c072 c075 c078 c082 c084 c087 c090 c093
c095 c099 c100 c101 c108 c109 c117

[OP3]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c066 c068 c072 c075 c078 c082 c084 c087 c090 c093
c095 c099 c106 c107 c114 c115 c120

000015
(000098)

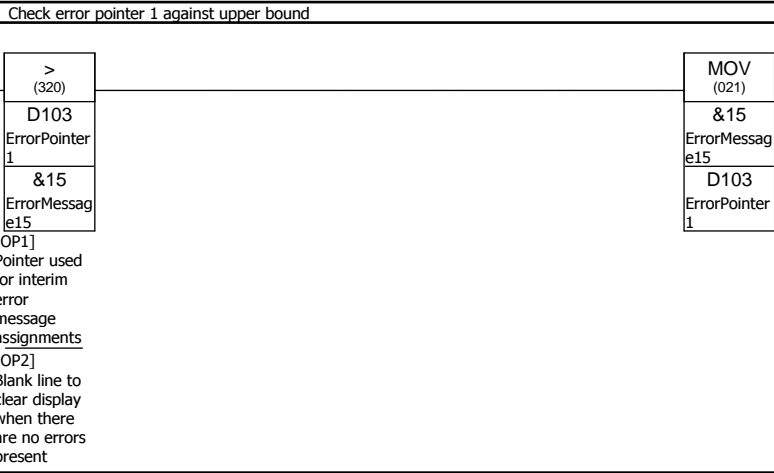


[OP1]
E-stop input inactive

[OP2]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c064 c066 c068 c072 c075 c078 c082 c084 c087 c090 c093
c095 c097 c100 c101 c108 c109 c117

[OP3]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c066 c068 c072 c075 c078 c082 c084 c087 c090 c093
c095 c097 c106 c107 c114 c115 c120

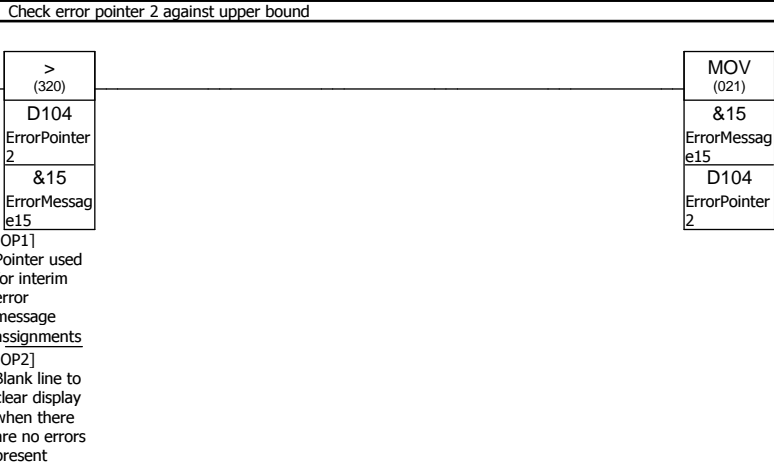
000016
(000100)



[OP1]
Blank line to clear display when there are no errors present

[OP2]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c064 c066 c068 c072 c075 c078 c082 c084 c087 c090 c093
c095 c097 c099 c100 c108 c109 c117

000017
(000102)

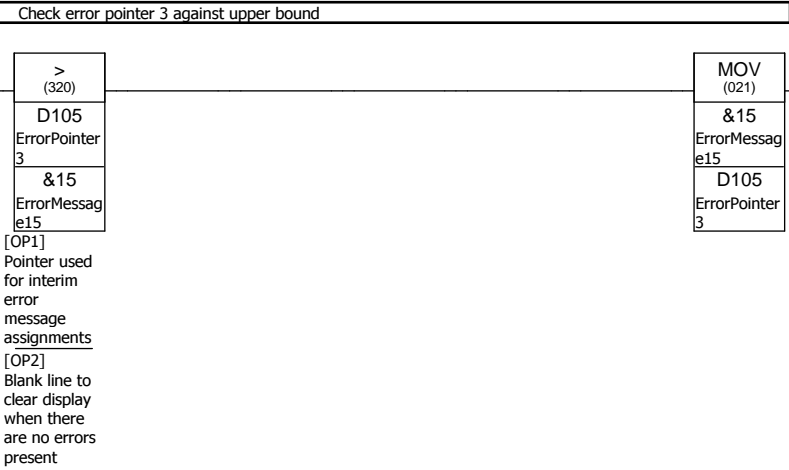


[OP1]
Blank line to clear display when there are no errors present

[OP2]
Pointer used for interim error message assignments
<cD00104>
c058 c102 c110 c111 c118

| | | | | | |
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| Title | Clip Insertion Sample Program | Author | A. Zeeman | Step Number | 000096 |
| Number | | Revision | 1 | Date | 5/2/2010 |

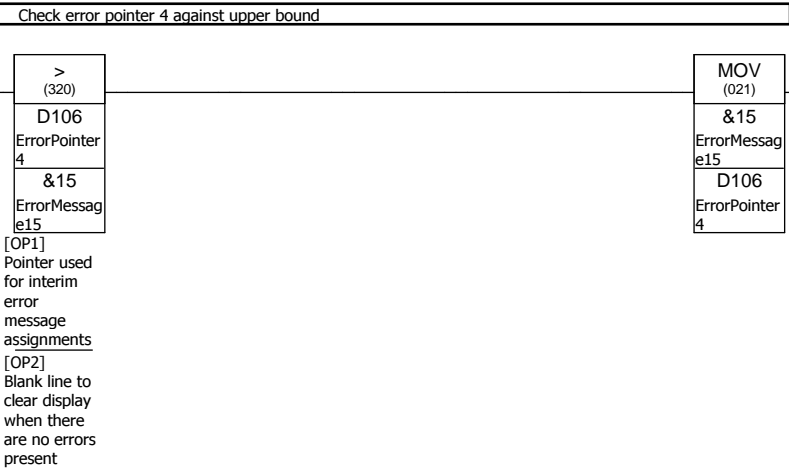
000018
(000104)



[OP1]
Blank line to clear display when there are no errors present

[OP2]
Pointer used for interim error message assignments
<cD00105>
c059 c104 c112 c113 c119

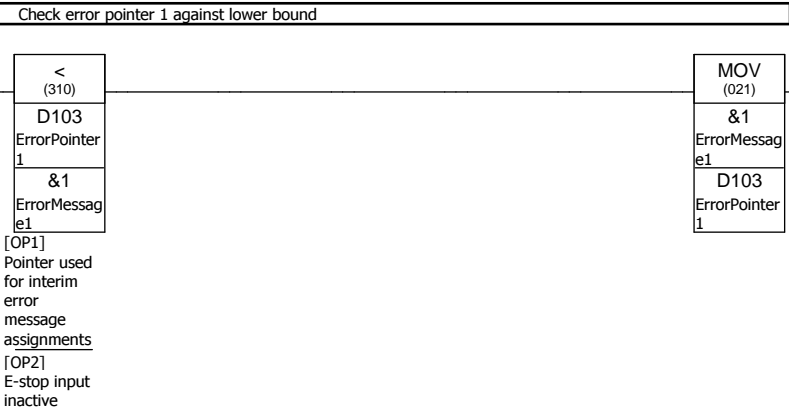
000019
(000106)



[OP1]
Blank line to clear display when there are no errors present

[OP2]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c066 c068 c072 c075 c078 c082 c084 c087 c090 c093
c095 c097 c099 c106 c114 c115 c120

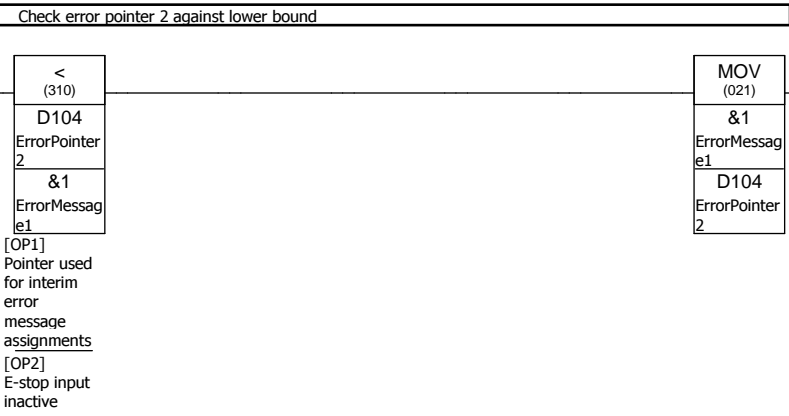
000020
(000108)



[OP1]
E-stop input inactive

[OP2]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c064 c066 c068 c072 c075 c078 c082 c084 c087 c090 c093
c095 c097 c099 c100 c101 c108 c117

000021
(000110)



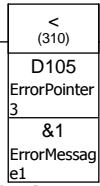
[OP1]
E-stop input inactive

[OP2]
Pointer used for interim error message assignments
<cD00104>
c058 c102 c103 c110 c118

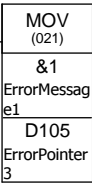
| | | | | | |
|--------|-------------------------------|----------|-----------|-------------|----------|
| Title | Clip Insertion Sample Program | Author | A. Zeeman | Step Number | 000104 |
| Number | | Revision | 1 | Date | 5/2/2010 |

000022
(000112)

Check error pointer 3 against lower bound



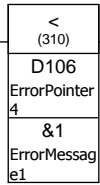
[OP1]
Pointer used for interim error message assignments
[OP2]
E-stop input inactive



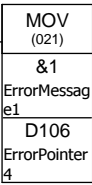
[OP1]
E-stop input inactive
[OP2]
Pointer used for interim error message assignments
<cD00105>
c059 c104 c105 c112 c119

000023
(000114)

Check error pointer 4 against lower bound



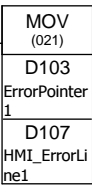
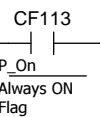
[OP1]
Pointer used for interim error message assignments
[OP2]
E-stop input inactive



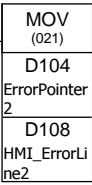
[OP1]
E-stop input inactive
[OP2]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c066 c068 c072 c075 c078 c082 c084 c087 c090 c093 c095 c097 c099 c106 c107 c114 c120

000024
(000116)

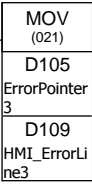
Copy highest priority error message pointer addresses into HMI error message display pointers



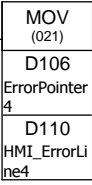
[OP1]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c064 c066 c068 c072 c075 c078 c082 c084 c087 c090 c093 c095 c097 c099 c100 c101 c108 c109
[OP2]
HMI error display line 1 message table pointer



[OP1]
Pointer used for interim error message assignments
<cD00104>
c058 c102 c103 c110 c111
[OP2]
HMI error display line 2 message table pointer



[OP1]
Pointer used for interim error message assignments
<cD00105>
c059 c104 c105 c112 c113
[OP2]
HMI error display line 3 message table pointer



[OP1]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c066 c068 c072 c075 c078 c082 c084 c087 c090 c093 c095 c097 c099 c106 c107 c114 c115
[OP2]
HMI error display line 4 message table pointer

| | | | | | |
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| Number | | Revision | 1 | Date | 5/2/2010 |