

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 c070 c072 c074 c076 c078 c080 c082 c084 c086
c088 c090 c091 c092 c099 c100 c108

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>
c093 c094 c101 c102 c109

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>
c095 c096 c103 c104 c110

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 c070 c072 c074 c076 c078 c080 c082 c084 c086
c088 c090 c097 c098 c105 c106 c111

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

000001
(000061)

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 c070 c072 c074 c076 c078 c080 c082 c084 c086
c088 c090 c091 c092 c099 c100 c108

[OP3]
Pointer used for interim error message assignments
<cD00106>
c060 c064 c066 c068 c070 c072 c074 c076 c078 c080 c082 c084 c086
c088 c090 c097 c098 c105 c106 c111

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

000002
(000063)

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 c070 c072 c074 c076 c078 c080 c082 c084 c086
c088 c090 c091 c092 c099 c100 c108

[OP3]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c066 c068 c070 c072 c074 c076 c078 c080 c082 c084 c086
c088 c090 c097 c098 c105 c106 c111

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

000003
(000065)

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

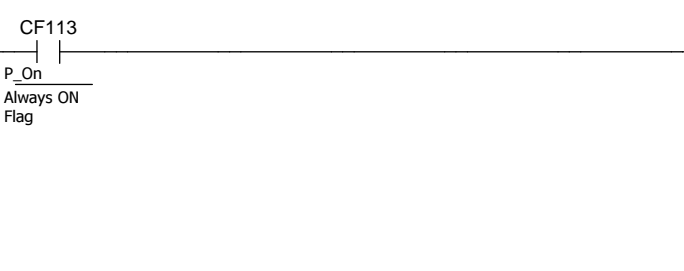
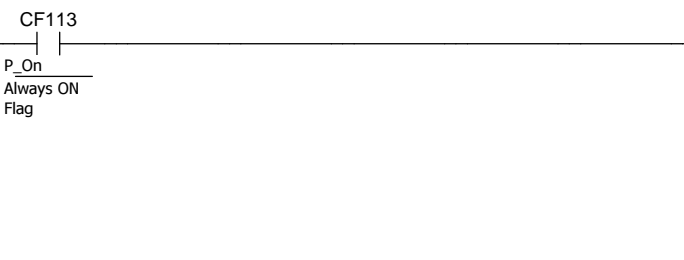


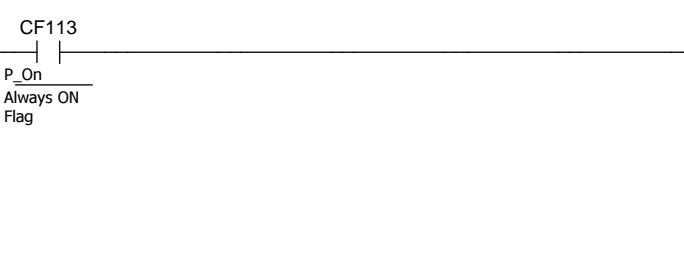
[OP2]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c064 c068 c070 c072 c074 c076 c078 c080 c082 c084 c086
c088 c090 c091 c092 c099 c100 c108

[OP3]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c068 c070 c072 c074 c076 c078 c080 c082 c084 c086
c088 c090 c097 c098 c105 c106 c111

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

000004 (000067)	<p>Error 12: Blank line to clear display when there are no errors present</p> <p>CF113 P_On Always ON Flag</p>	<table border="1"> <tr><td>WSFT (016)</td></tr> <tr><td>&12 ErrorMessage e12</td></tr> <tr><td>D103 ErrorPointer 1</td></tr> <tr><td>D106 ErrorPointer 4</td></tr> </table>	WSFT (016)	&12 ErrorMessage e12	D103 ErrorPointer 1	D106 ErrorPointer 4	<p>[OP1] Blank line to clear display when there are no errors present</p> <p>[OP2] Pointer used for interim error message assignments <cD00103> c057 c062 c064 c066 c070 c072 c074 c076 c078 c080 c082 c084 c086 c088 c090 c091 c092 c099 c100 c108</p> <p>[OP3] Pointer used for interim error message assignments <cD00106> c060 c062 c064 c066 c070 c072 c074 c076 c078 c080 c082 c084 c086 c088 c090 c097 c098 c105 c106 c111</p>
WSFT (016)							
&12 ErrorMessage e12							
D103 ErrorPointer 1							
D106 ErrorPointer 4							
000005 (000069)	<p>Error 11: Waiting for cylinder to completely extend Cylinder down sensor off</p> <p>CF113 P_On Always ON Flag</p>	<table border="1"> <tr><td>WSFT (016)</td></tr> <tr><td>&11 ErrorMessage e11</td></tr> <tr><td>D103 ErrorPointer 1</td></tr> <tr><td>D106 ErrorPointer 4</td></tr> </table>	WSFT (016)	&11 ErrorMessage e11	D103 ErrorPointer 1	D106 ErrorPointer 4	<p>[OP1] Waiting for cylinder to completely extend</p> <p>[OP2] Pointer used for interim error message assignments <cD00103> c057 c062 c064 c066 c068 c072 c074 c076 c078 c080 c082 c084 c086 c088 c090 c091 c092 c099 c100 c108</p> <p>[OP3] Pointer used for interim error message assignments <cD00106> c060 c062 c064 c066 c068 c072 c074 c076 c078 c080 c082 c084 c086 c088 c090 c097 c098 c105 c106 c111</p>
WSFT (016)							
&11 ErrorMessage e11							
D103 ErrorPointer 1							
D106 ErrorPointer 4							
000006 (000071)	<p>Error 10: Waiting for operator to load clip Clip not loaded</p> <p>CF113 P_On Always ON Flag</p>	<table border="1"> <tr><td>WSFT (016)</td></tr> <tr><td>&10 ErrorMessage e10</td></tr> <tr><td>D103 ErrorPointer 1</td></tr> <tr><td>D106 ErrorPointer 4</td></tr> </table>	WSFT (016)	&10 ErrorMessage e10	D103 ErrorPointer 1	D106 ErrorPointer 4	<p>[OP1] Waiting for operator to load clip</p> <p>[OP2] Pointer used for interim error message assignments <cD00103> c057 c062 c064 c066 c068 c070 c074 c076 c078 c080 c082 c084 c086 c088 c090 c091 c092 c099 c100 c108</p> <p>[OP3] Pointer used for interim error message assignments <cD00106> c060 c062 c064 c066 c068 c070 c074 c076 c078 c080 c082 c084 c086 c088 c090 c097 c098 c105 c106 c111</p>
WSFT (016)							
&10 ErrorMessage e10							
D103 ErrorPointer 1							
D106 ErrorPointer 4							
000007 (000073)	<p>Error 9: Waiting for operator to load substrate Substrate not loaded</p> <p>CF113 P_On Always ON Flag</p>	<table border="1"> <tr><td>WSFT (016)</td></tr> <tr><td>&9 ErrorMessage e9</td></tr> <tr><td>D103 ErrorPointer 1</td></tr> <tr><td>D106 ErrorPointer 4</td></tr> </table>	WSFT (016)	&9 ErrorMessage e9	D103 ErrorPointer 1	D106 ErrorPointer 4	<p>[OP1] Waiting for operator to load substrate</p> <p>[OP2] Pointer used for interim error message assignments <cD00103> c057 c062 c064 c066 c068 c070 c072 c076 c078 c080 c082 c084 c086 c088 c090 c091 c092 c099 c100 c108</p> <p>[OP3] Pointer used for interim error message assignments <cD00106> c060 c062 c064 c066 c068 c070 c072 c076 c078 c080 c082 c084 c086 c088 c090 c097 c098 c105 c106 c111</p>
WSFT (016)							
&9 ErrorMessage e9							
D103 ErrorPointer 1							
D106 ErrorPointer 4							
000008 (000075)	<p>Error 8: Waiting for cylinder to move to home position Cylinder home sensor off</p> <p>CF113 P_On Always ON Flag</p>	<table border="1"> <tr><td>WSFT (016)</td></tr> <tr><td>&8 ErrorMessage e8</td></tr> <tr><td>D103 ErrorPointer 1</td></tr> <tr><td>D106 ErrorPointer 4</td></tr> </table>	WSFT (016)	&8 ErrorMessage e8	D103 ErrorPointer 1	D106 ErrorPointer 4	<p>[OP1] Waiting for cylinder to move to home position</p> <p>[OP2] Pointer used for interim error message assignments <cD00103> c057 c062 c064 c066 c068 c070 c072 c074 c078 c080 c082 c084 c086 c088 c090 c091 c092 c099 c100 c108</p> <p>[OP3] Pointer used for interim error message assignments <cD00106> c060 c062 c064 c066 c068 c070 c072 c074 c078 c080 c082 c084 c086 c088 c090 c097 c098 c105 c106 c111</p>
WSFT (016)							
&8 ErrorMessage e8							
D103 ErrorPointer 1							
D106 ErrorPointer 4							

Title	Clip Insertion Sample Program	Author	A. Zeeman	Step Number	
Number		Revision	1	Date	5/2/2010
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000009 (000077)	Error 7: OutputEnable bit is latched off Press start to enable cycle		<table border="1"> <tr><td>WSFT (016)</td></tr> <tr><td>&7</td></tr> <tr><td>ErrorMessage7</td></tr> <tr><td>D103</td></tr> <tr><td>ErrorPointer1</td></tr> <tr><td>D106</td></tr> <tr><td>ErrorPointer4</td></tr> </table>	WSFT (016)	&7	ErrorMessage7	D103	ErrorPointer1	D106	ErrorPointer4	<p>[OP1] OutputEnable bit is latched off</p> <p>[OP2] Pointer used for interim error message assignments <cD00103> c057 c062 c064 c066 c068 c070 c072 c074 c076 c080 c082 c084 c086 c088 c090 c091 c092 c099 c100 c108</p> <p>[OP3] Pointer used for interim error message assignments <cD00106> c060 c062 c064 c066 c068 c070 c072 c074 c076 c080 c082 c084 c086 c088 c090 c097 c098 c105 c106 c111</p>
WSFT (016)											
&7											
ErrorMessage7											
D103											
ErrorPointer1											
D106											
ErrorPointer4											
000010 (000079)	Error 6: Either cylinder home or cylinder down sensor is stuck on Cylinder home and down sensors on		<table border="1"> <tr><td>WSFT (016)</td></tr> <tr><td>&6</td></tr> <tr><td>ErrorMessage6</td></tr> <tr><td>D103</td></tr> <tr><td>ErrorPointer1</td></tr> <tr><td>D106</td></tr> <tr><td>ErrorPointer4</td></tr> </table>	WSFT (016)	&6	ErrorMessage6	D103	ErrorPointer1	D106	ErrorPointer4	<p>[OP1] Either cylinder home or cylinder down sensor is stuck on</p> <p>[OP2] Pointer used for interim error message assignments <cD00103> c057 c062 c064 c066 c068 c070 c072 c074 c076 c078 c082 c084 c086 c088 c090 c091 c092 c099 c100 c108</p> <p>[OP3] Pointer used for interim error message assignments <cD00106> c060 c062 c064 c066 c068 c070 c072 c074 c076 c078 c082 c084 c086 c088 c090 c097 c098 c105 c106 c111</p>
WSFT (016)											
&6											
ErrorMessage6											
D103											
ErrorPointer1											
D106											
ErrorPointer4											
000011 (000081)	Error 5: Substrate present sensor must be off at start of cycle Substrate presence sensor stuck on		<table border="1"> <tr><td>WSFT (016)</td></tr> <tr><td>&5</td></tr> <tr><td>ErrorMessage5</td></tr> <tr><td>D103</td></tr> <tr><td>ErrorPointer1</td></tr> <tr><td>D106</td></tr> <tr><td>ErrorPointer4</td></tr> </table>	WSFT (016)	&5	ErrorMessage5	D103	ErrorPointer1	D106	ErrorPointer4	<p>[OP1] Substrate present sensor must be off at start of cycle</p> <p>[OP2] Pointer used for interim error message assignments <cD00103> c057 c062 c064 c066 c068 c070 c072 c074 c076 c078 c080 c084 c086 c088 c090 c091 c092 c099 c100 c108</p> <p>[OP3] Pointer used for interim error message assignments <cD00106> c060 c062 c064 c066 c068 c070 c072 c074 c076 c078 c080 c084 c086 c088 c090 c097 c098 c105 c106 c111</p>
WSFT (016)											
&5											
ErrorMessage5											
D103											
ErrorPointer1											
D106											
ErrorPointer4											
000012 (000083)	Error 4: Clip present sensor must be off at start of cycle Clip presence sensor stuck on		<table border="1"> <tr><td>WSFT (016)</td></tr> <tr><td>&4</td></tr> <tr><td>ErrorMessage4</td></tr> <tr><td>D103</td></tr> <tr><td>ErrorPointer1</td></tr> <tr><td>D106</td></tr> <tr><td>ErrorPointer4</td></tr> </table>	WSFT (016)	&4	ErrorMessage4	D103	ErrorPointer1	D106	ErrorPointer4	<p>[OP1] Clip present sensor must be off at start of cycle</p> <p>[OP2] Pointer used for interim error message assignments <cD00103> c057 c062 c064 c066 c068 c070 c072 c074 c076 c078 c080 c082 c086 c088 c090 c091 c092 c099 c100 c108</p> <p>[OP3] Pointer used for interim error message assignments <cD00106> c060 c062 c064 c066 c068 c070 c072 c074 c076 c078 c080 c082 c086 c088 c090 c097 c098 c105 c106 c111</p>
WSFT (016)											
&4											
ErrorMessage4											
D103											
ErrorPointer1											
D106											
ErrorPointer4											
000013 (000085)	Error 3: Light curtain blocked Light curtain blocked		<table border="1"> <tr><td>WSFT (016)</td></tr> <tr><td>&3</td></tr> <tr><td>ErrorMessage3</td></tr> <tr><td>D103</td></tr> <tr><td>ErrorPointer1</td></tr> <tr><td>D106</td></tr> <tr><td>ErrorPointer4</td></tr> </table>	WSFT (016)	&3	ErrorMessage3	D103	ErrorPointer1	D106	ErrorPointer4	<p>[OP1] Light curtain blocked</p> <p>[OP2] Pointer used for interim error message assignments <cD00103> c057 c062 c064 c066 c068 c070 c072 c074 c076 c078 c080 c082 c084 c088 c090 c091 c092 c099 c100 c108</p> <p>[OP3] Pointer used for interim error message assignments <cD00106> c060 c062 c064 c066 c068 c070 c072 c074 c076 c078 c080 c082 c084 c088 c090 c097 c098 c105 c106 c111</p>
WSFT (016)											
&3											
ErrorMessage3											
D103											
ErrorPointer1											
D106											
ErrorPointer4											

Title	Clip Insertion Sample Program	Author	A. Zeeman	Step Number
Number	Revision	1	Date	5/2/2010
				000077

000014
(000087)

Error 2: Air pressure input off Air pressure low, check air cutoff	
CF113 P_On Always ON Flag	WSFT (016) &2 ErrorMessage e2 D103 ErrorPointer 1 D106 ErrorPointer 4

[OP1]
Air pressure input off
[OP2]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c064 c066 c068 c070 c072 c074 c076 c078 c080 c082 c084
c086 c090 c091 c092 c099 c100 c108
[OP3]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c066 c068 c070 c072 c074 c076 c078 c080 c082 c084
c086 c090 c097 c098 c105 c106 c111

000015
(000089)

Error 1: E-stop input inactive Release e-stop and press control on	
CF113 P_On Always ON Flag	WSFT (016) &1 ErrorMessage e1 D103 ErrorPointer 1 D106 ErrorPointer 4

[OP1]
E-stop input inactive
[OP2]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c064 c066 c068 c070 c072 c074 c076 c078 c080 c082 c084
c086 c088 c091 c092 c099 c100 c108
[OP3]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c066 c068 c070 c072 c074 c076 c078 c080 c082 c084
c086 c088 c097 c098 c105 c106 c111

000016
(000091)

Check error pointer 1 against upper bound	
> (320) D103 ErrorPointer 1 &15 ErrorMessage e15	MOV (021) &15 ErrorMessage e15 D103 ErrorPointer 1
[OP1] Pointer used for interim error message assignments [OP2] Blank line to clear display when there are no errors present	

[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 c070 c072 c074 c076 c078 c080 c082 c084
c086 c088 c090 c091 c099 c100 c108

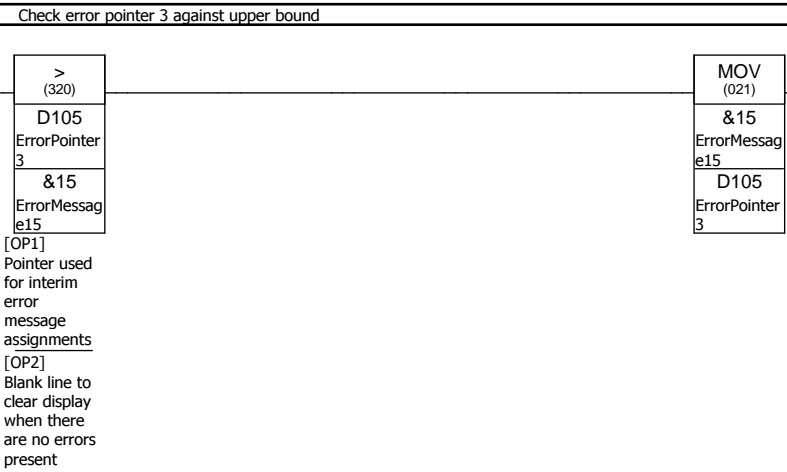
000017
(000093)

Check error pointer 2 against upper bound	
> (320) D104 ErrorPointer 2 &15 ErrorMessage e15	MOV (021) &15 ErrorMessage e15 D104 ErrorPointer 2
[OP1] Pointer used for interim error message assignments [OP2] Blank line to clear display when there are no errors present	

[OP1]
Blank line to clear display when there are no errors present
[OP2]
Pointer used for interim error message assignments
<cD00104>
c058 c093 c101 c102 c109

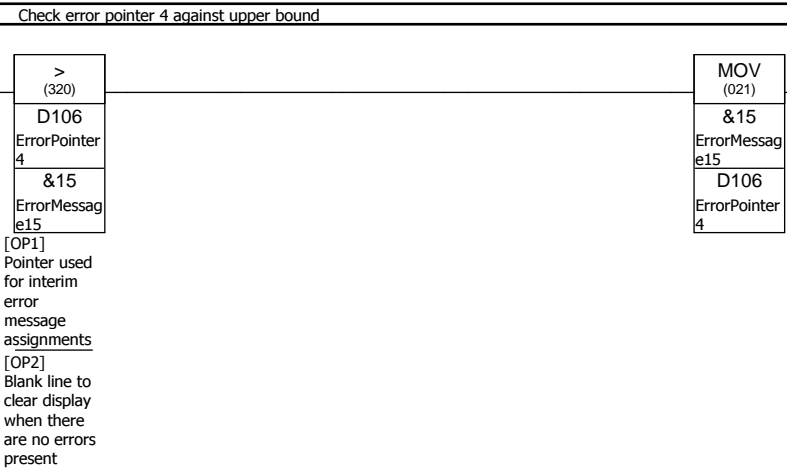
Title	Clip Insertion Sample Program	Author	A. Zeeman	Step Number	000087
Number		Revision	1	Date	5/2/2010

000018
(000095)



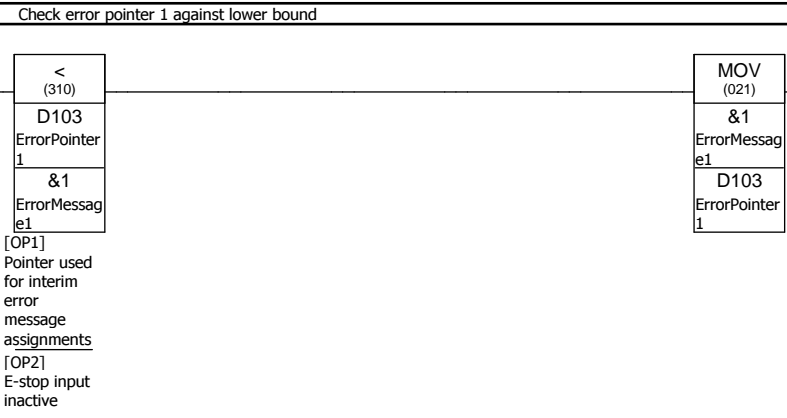
[OP1]
Blank line to clear display when there are no errors present
[OP2]
Pointer used for interim error message assignments
<cD00105>
c059 c095 c103 c104 c110

000019
(000097)



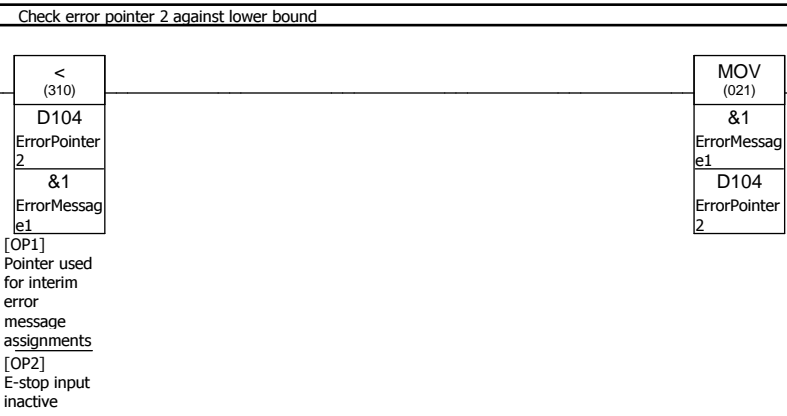
[OP1]
Blank line to clear display when there are no errors present
[OP2]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c066 c068 c070 c072 c074 c076 c078 c080 c082 c084 c086 c088 c090 c097 c105 c106 c111

000020
(000099)



[OP1]
E-stop input inactive
[OP2]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c064 c066 c068 c070 c072 c074 c076 c078 c080 c082 c084 c086 c088 c090 c091 c092 c099 c108

000021
(000101)

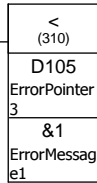


[OP1]
E-stop input inactive
[OP2]
Pointer used for interim error message assignments
<cD00104>
c058 c093 c094 c101 c109

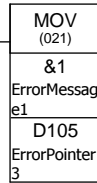
Title	Clip Insertion Sample Program	Author	A. Zeeman	Step Number
Number		Revision	1	Date
				5/2/2010
				000095

000022
(000103)

Check error pointer 3 against lower bound



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

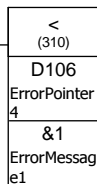


[OP1]
E-stop input inactive

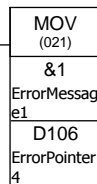
[OP2]
Pointer used for interim error message assignments
<cD00105>
c059 c095 c096 c103 c110

000023
(000105)

Check error pointer 4 against lower bound



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

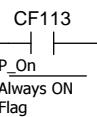


[OP1]
E-stop input inactive

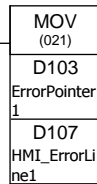
[OP2]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c066 c068 c070 c072 c074 c076 c078 c080 c082 c084 c086 c088 c090 c097 c098 c105 c111

000024
(000107)

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



[OP1]
Pointer used for interim error message assignments
[OP2]
HMI error display line 1 message table pointer

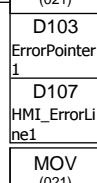


[OP1]
Pointer used for interim error message assignments
<cD00103>
c057 c062 c064 c066 c068 c070 c072 c074 c076 c078 c080 c082 c084 c086 c088 c090 c091 c092 c099 c100

[OP2]
HMI error display line 1 message table pointer



[OP1]
Pointer used for interim error message assignments
[OP2]
HMI error display line 2 message table pointer

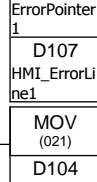


[OP1]
Pointer used for interim error message assignments
<cD00104>
c058 c093 c094 c101 c102

[OP2]
HMI error display line 2 message table pointer



[OP1]
Pointer used for interim error message assignments
[OP2]
HMI error display line 3 message table pointer

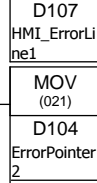


[OP1]
Pointer used for interim error message assignments
<cD00105>
c059 c095 c096 c103 c104

[OP2]
HMI error display line 3 message table pointer



[OP1]
Pointer used for interim error message assignments
[OP2]
HMI error display line 4 message table pointer



[OP1]
Pointer used for interim error message assignments
<cD00106>
c060 c062 c064 c066 c068 c070 c072 c074 c076 c078 c080 c082 c084 c086 c088 c090 c097 c098 c105 c106

[OP2]
HMI error display line 4 message table pointer

Title	Clip Insertion Sample Program	Author	A. Zeeman	Step Number	000103
Number		Revision	1	Date	5/2/2010