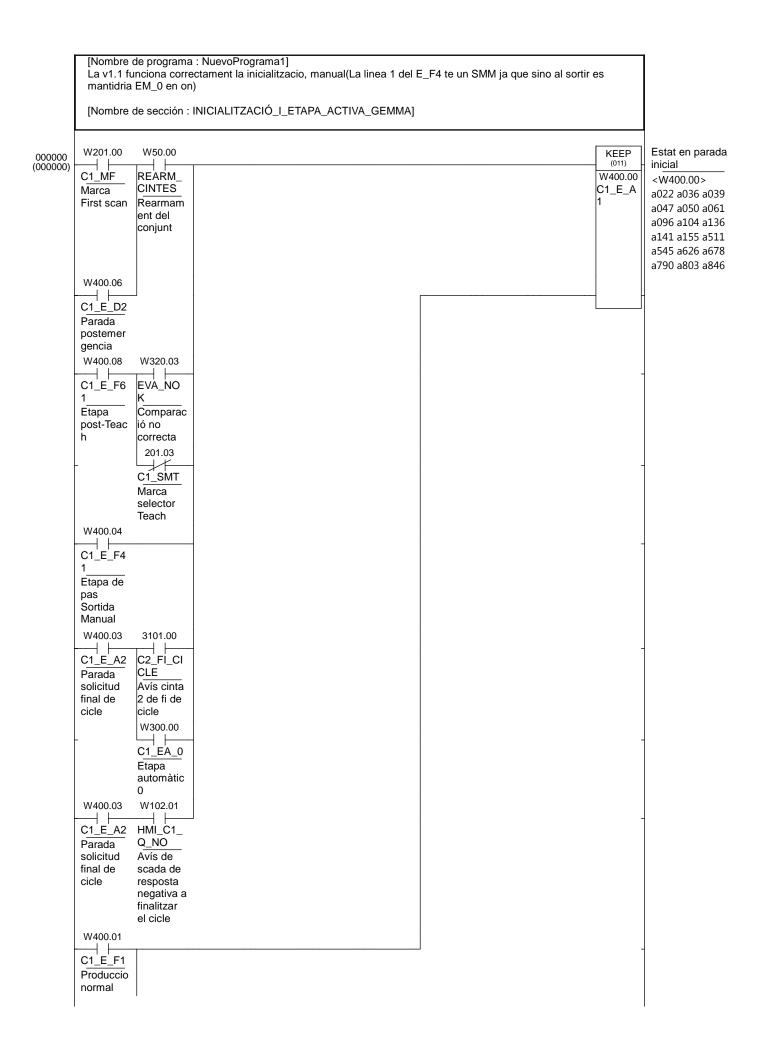
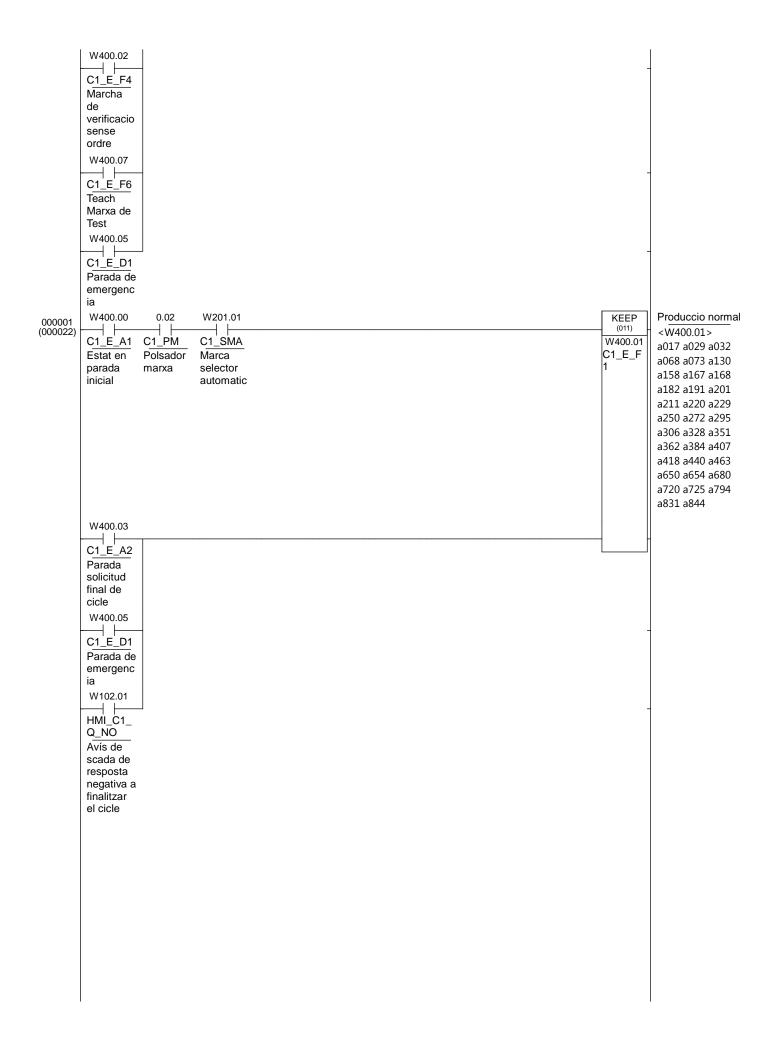
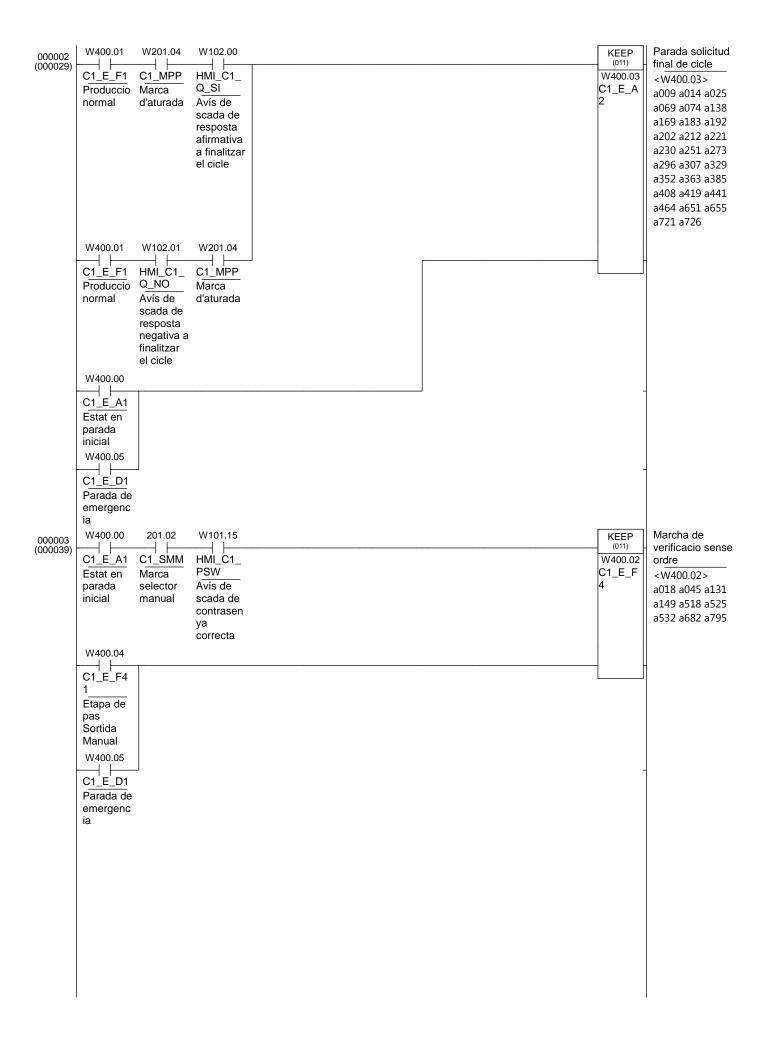
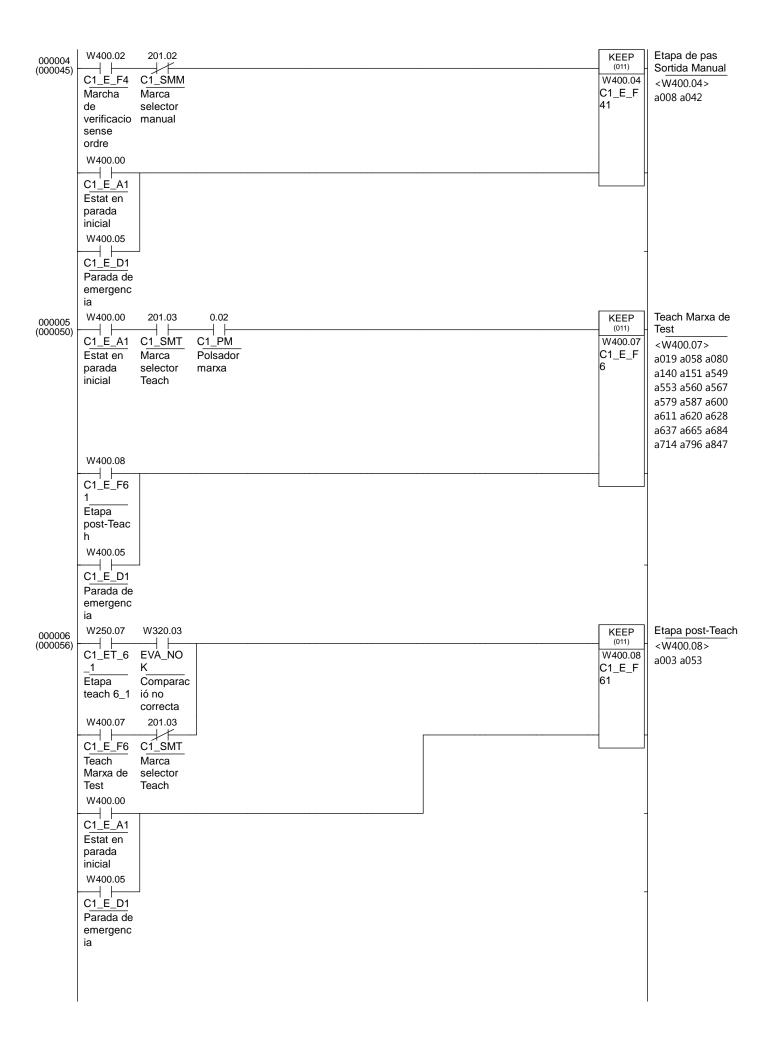
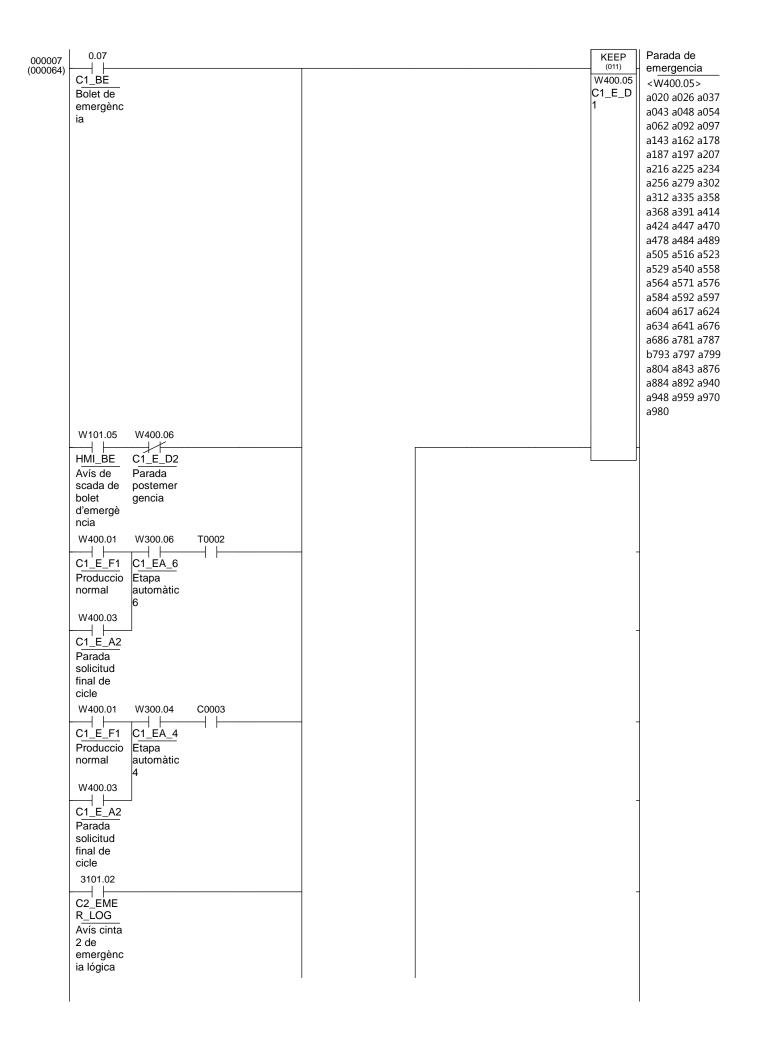
## PROGRAMA CINTA 1

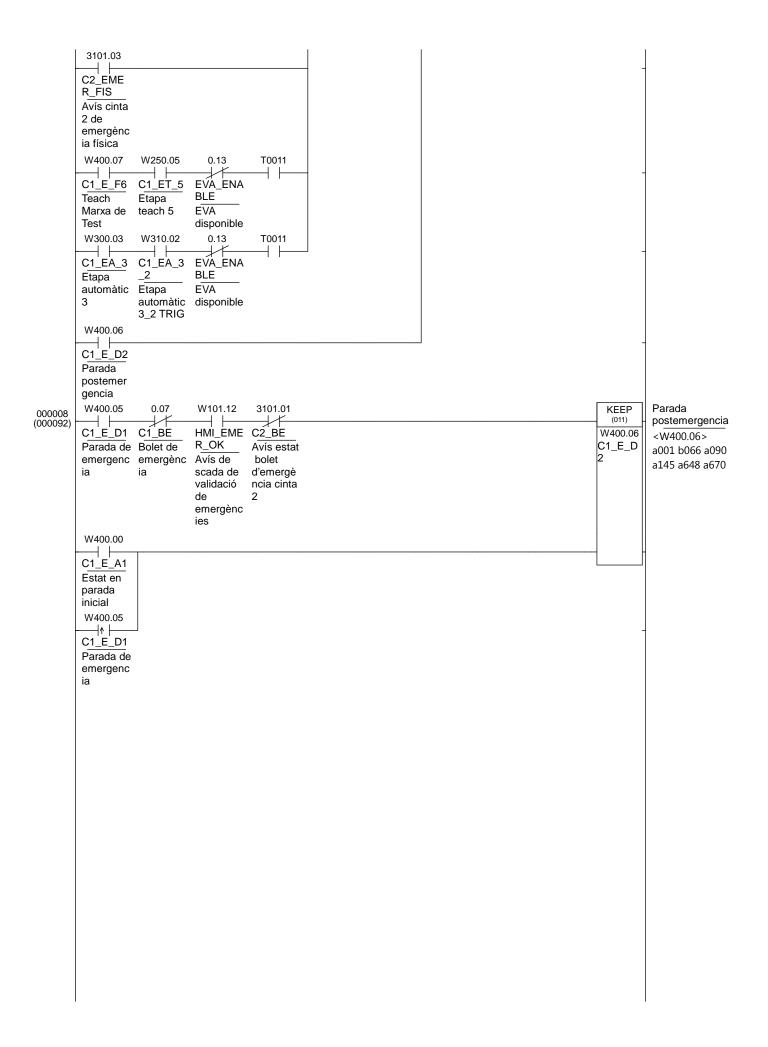


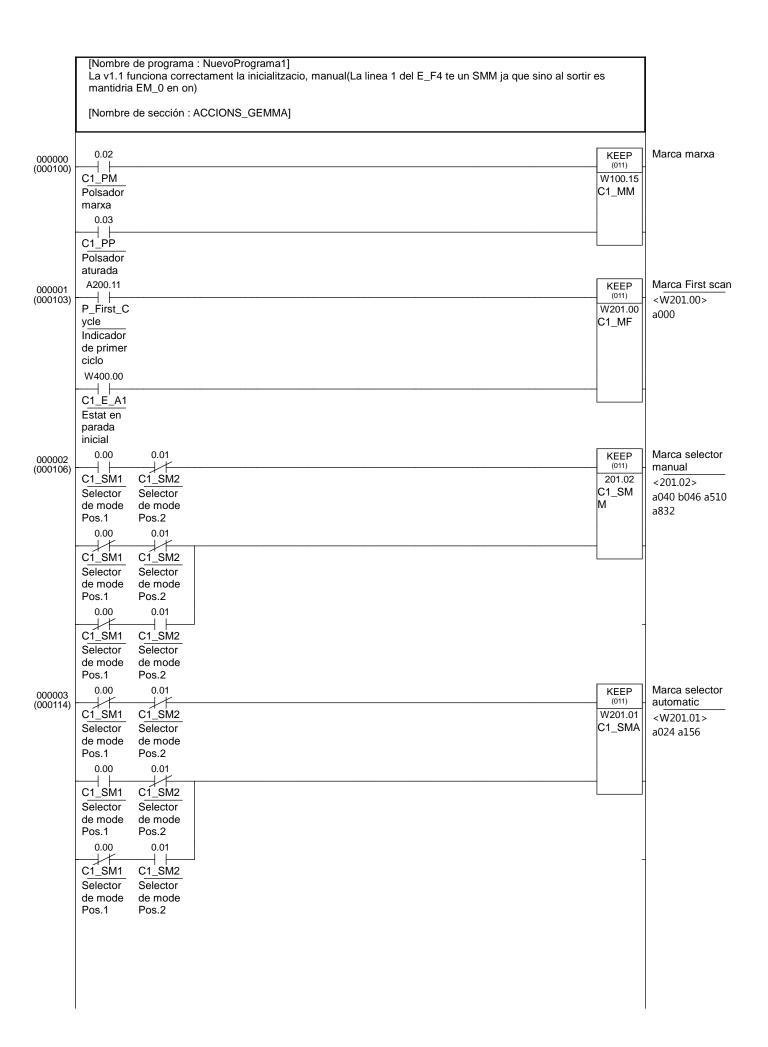


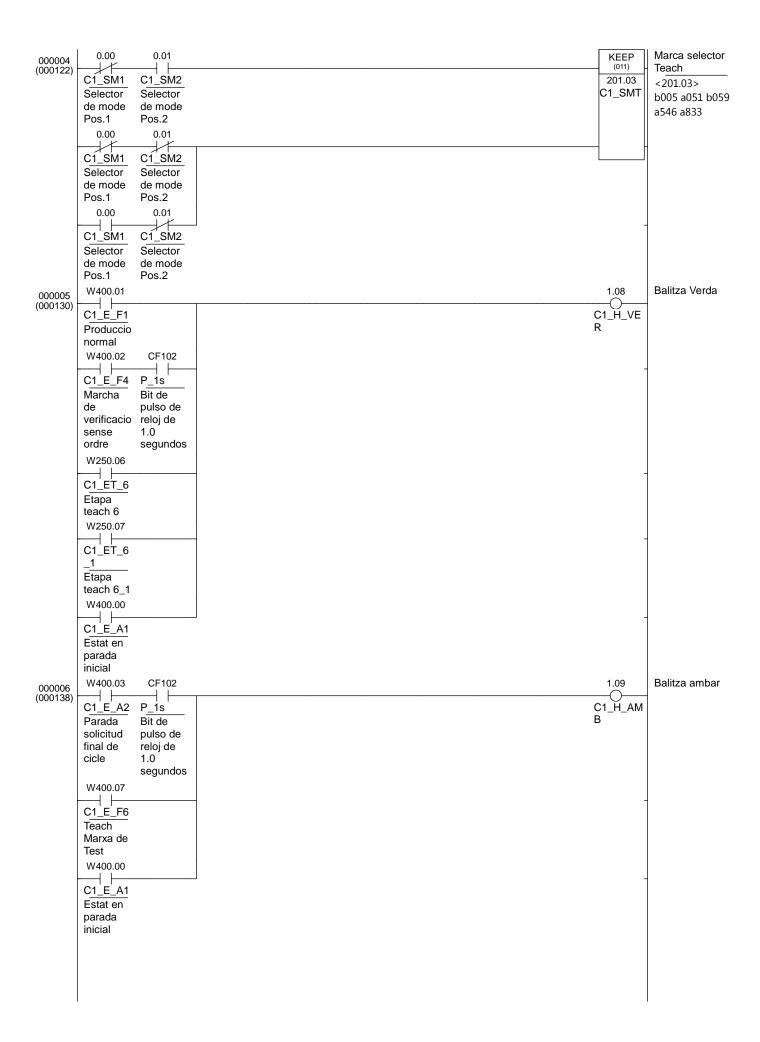


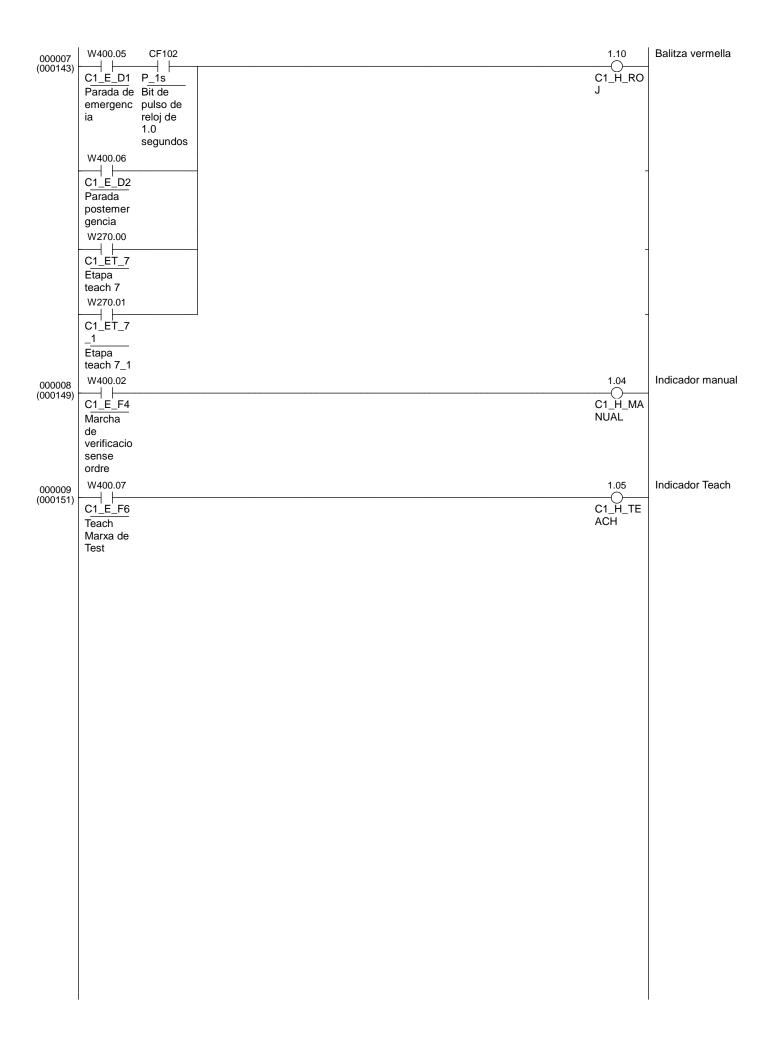


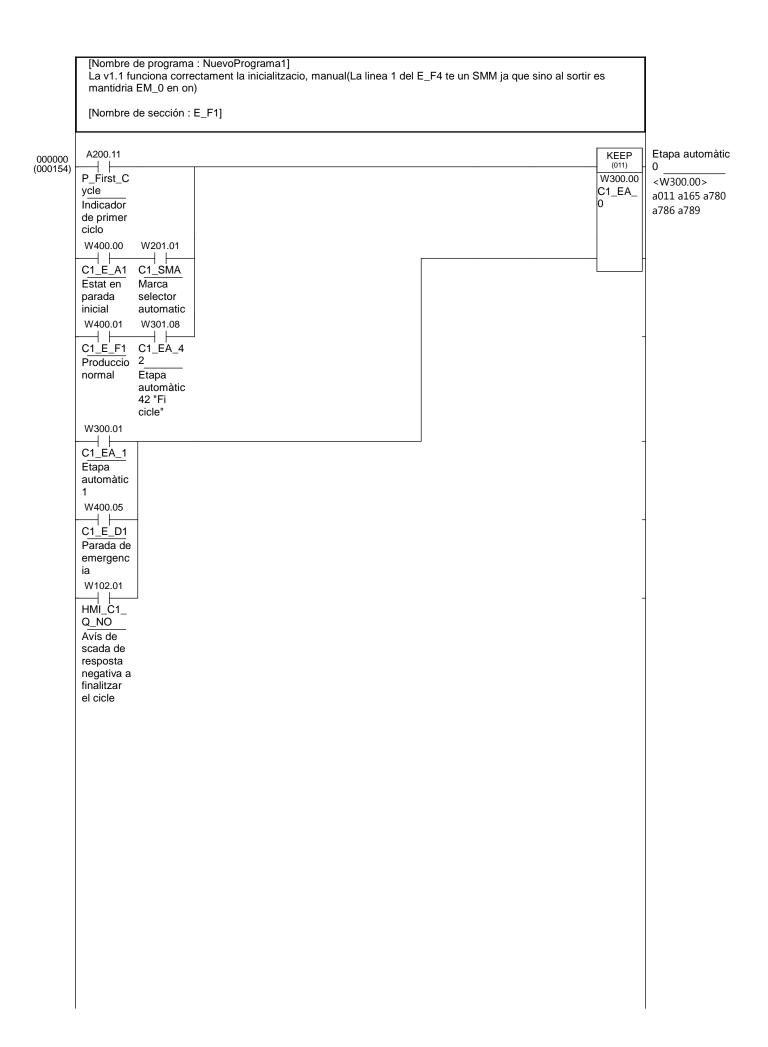


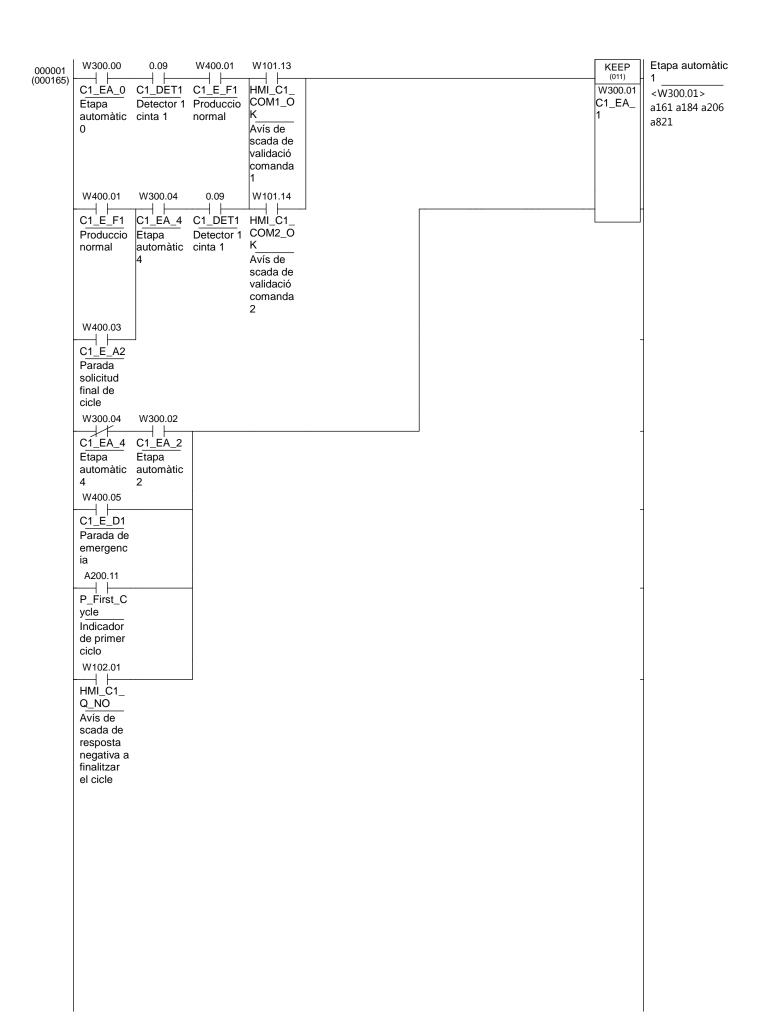


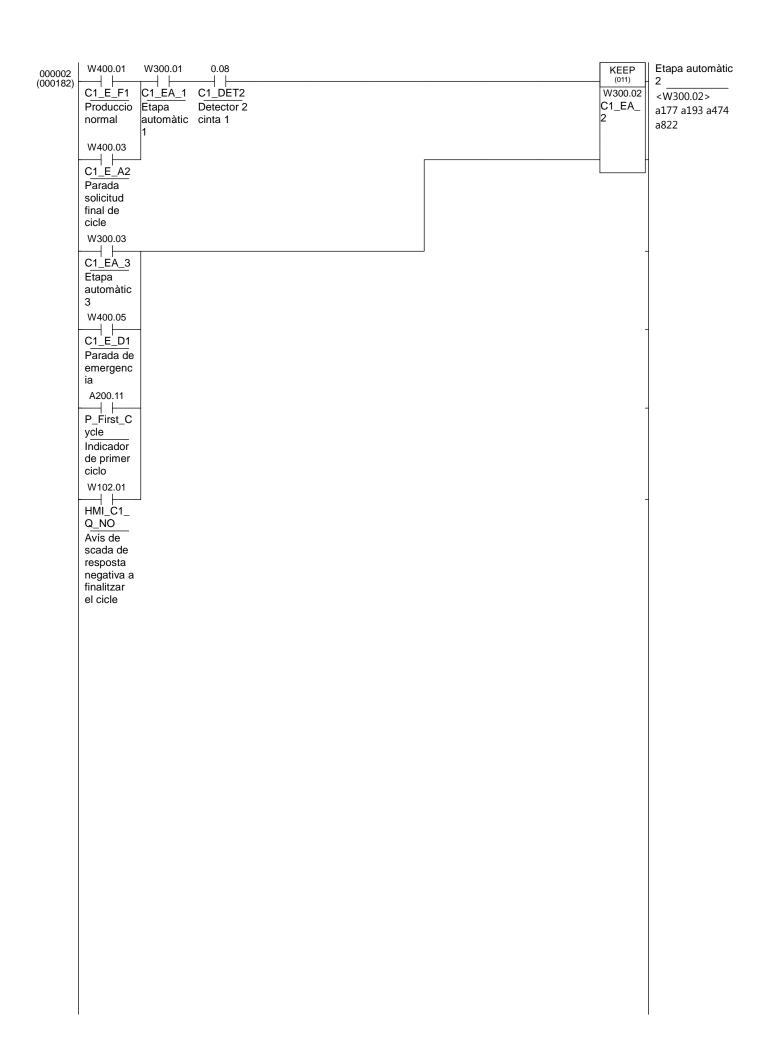


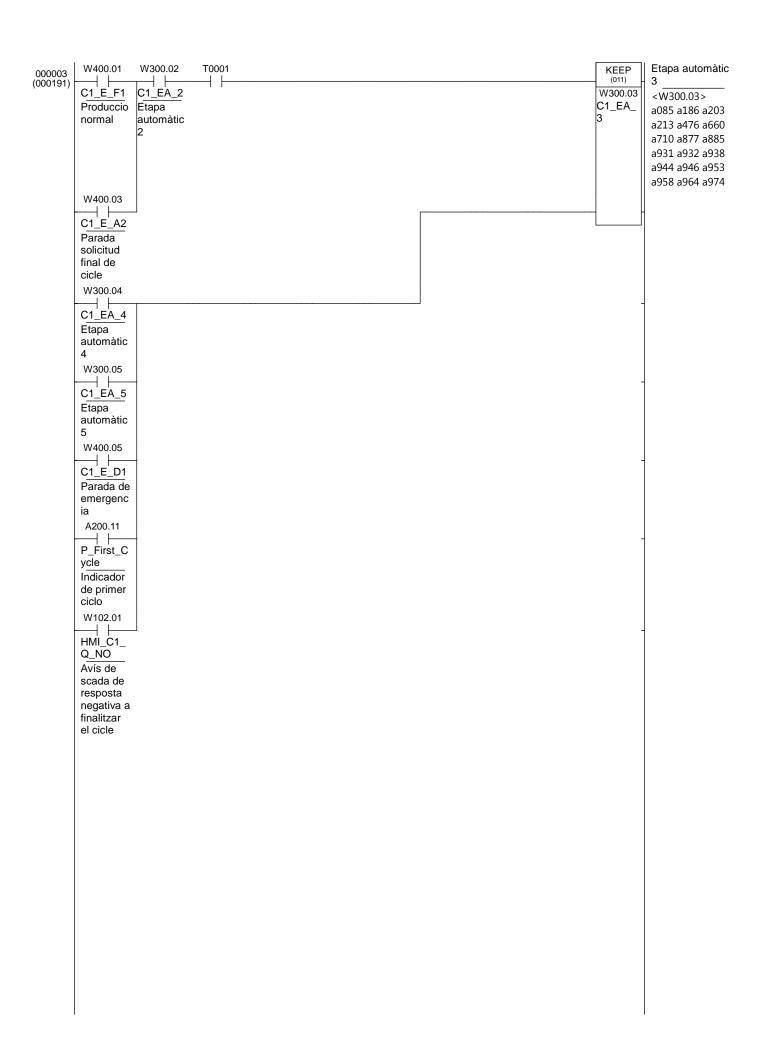


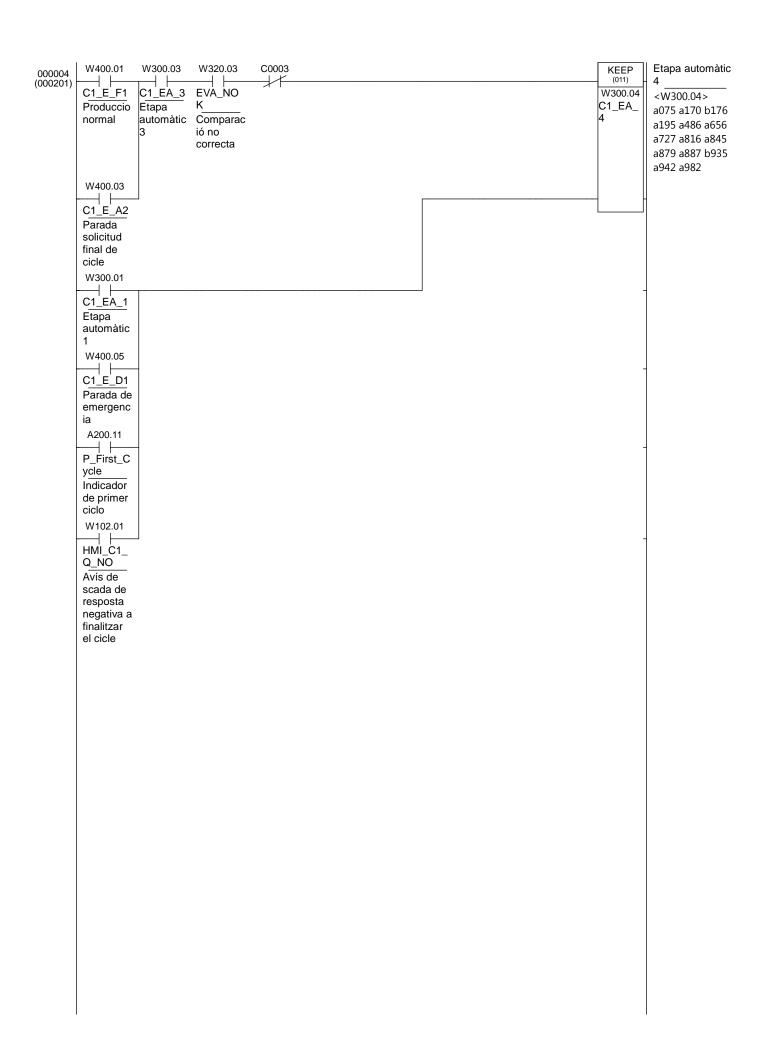


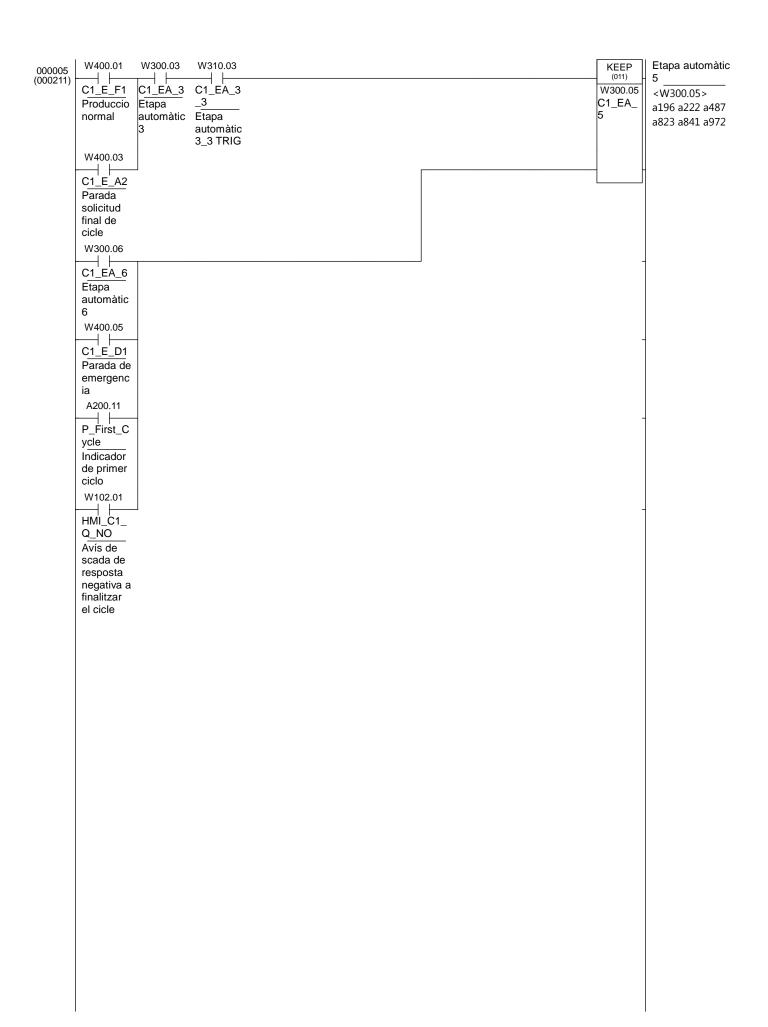


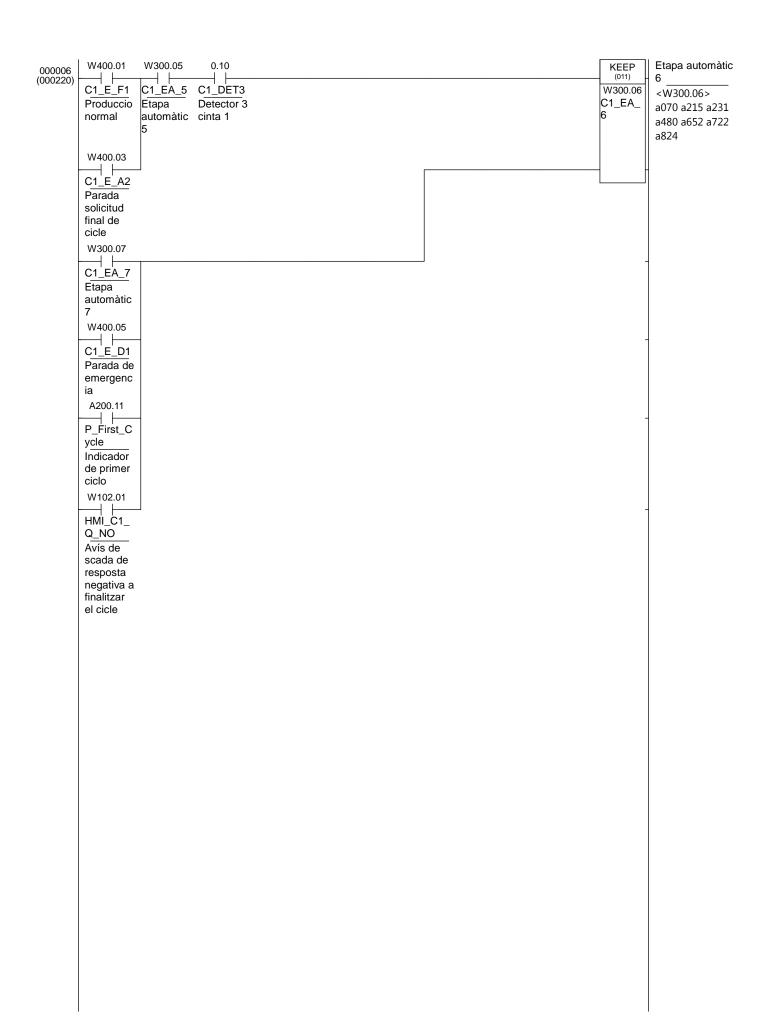


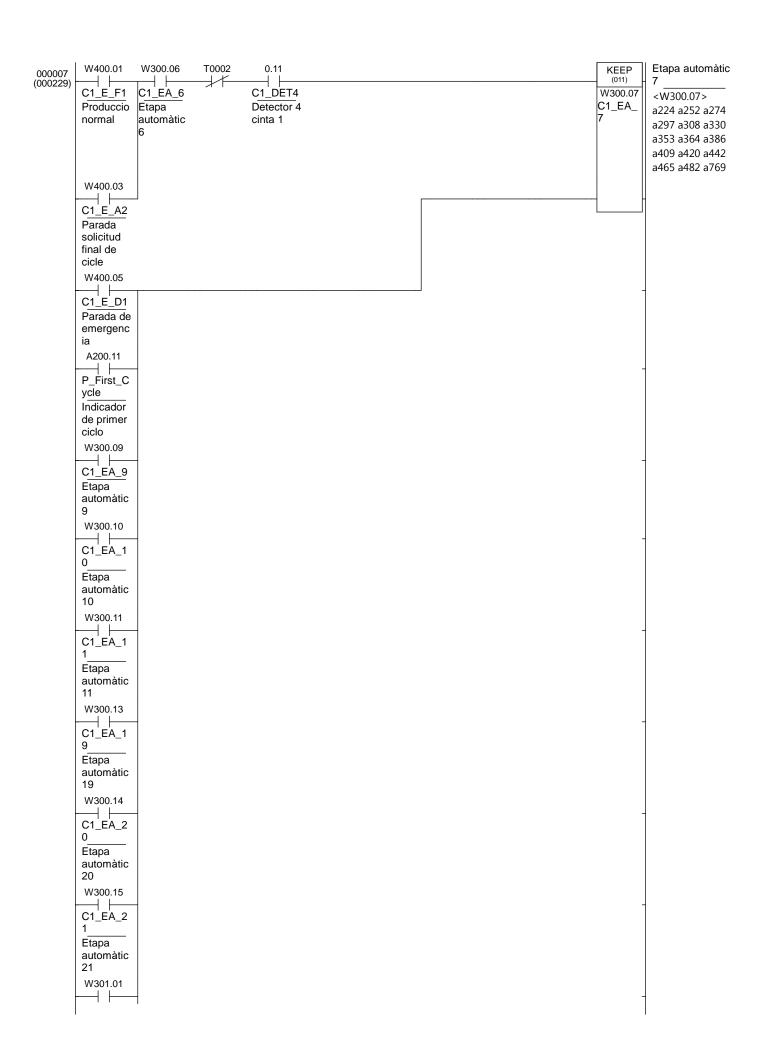




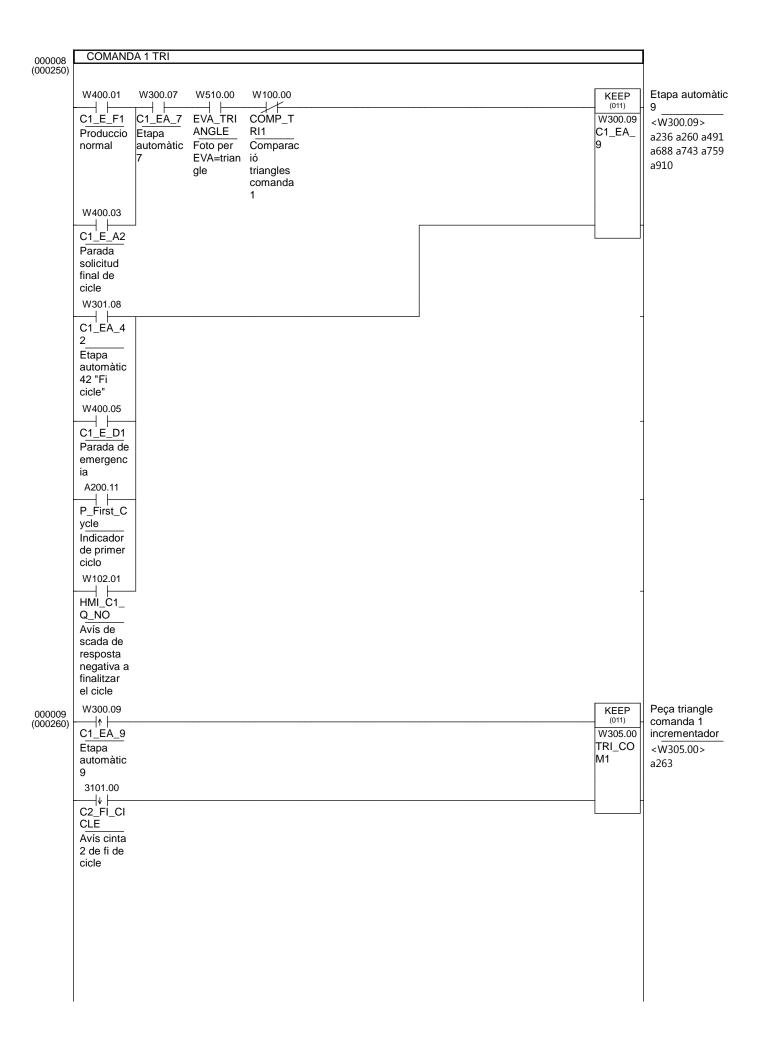


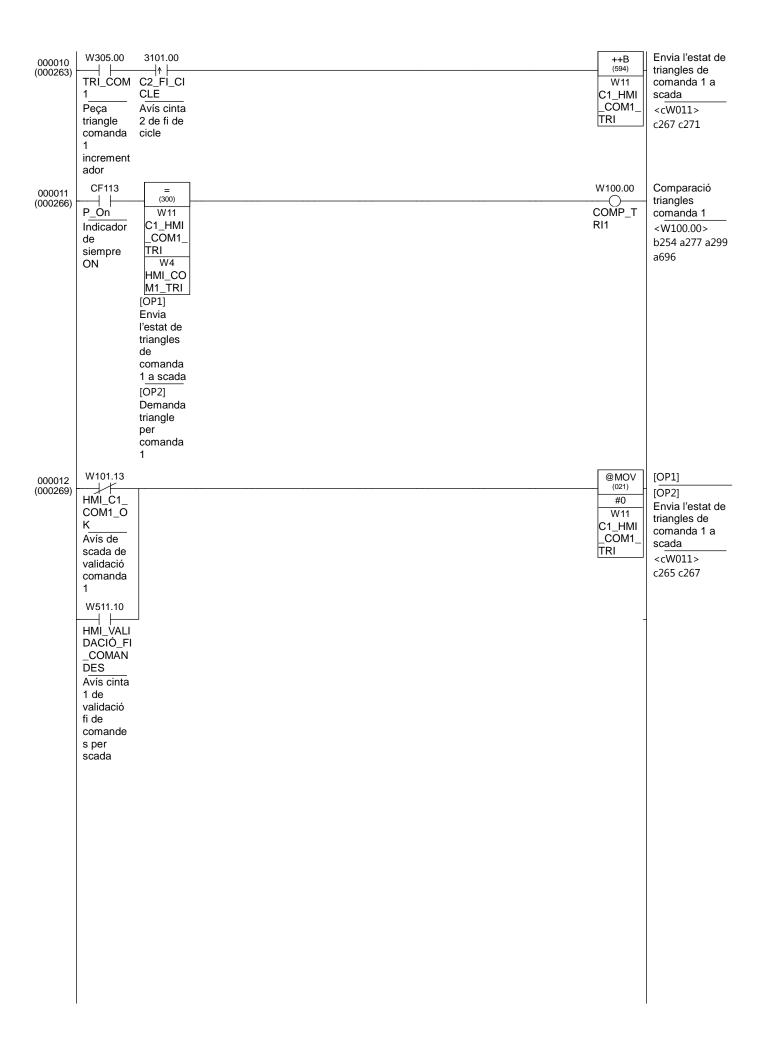


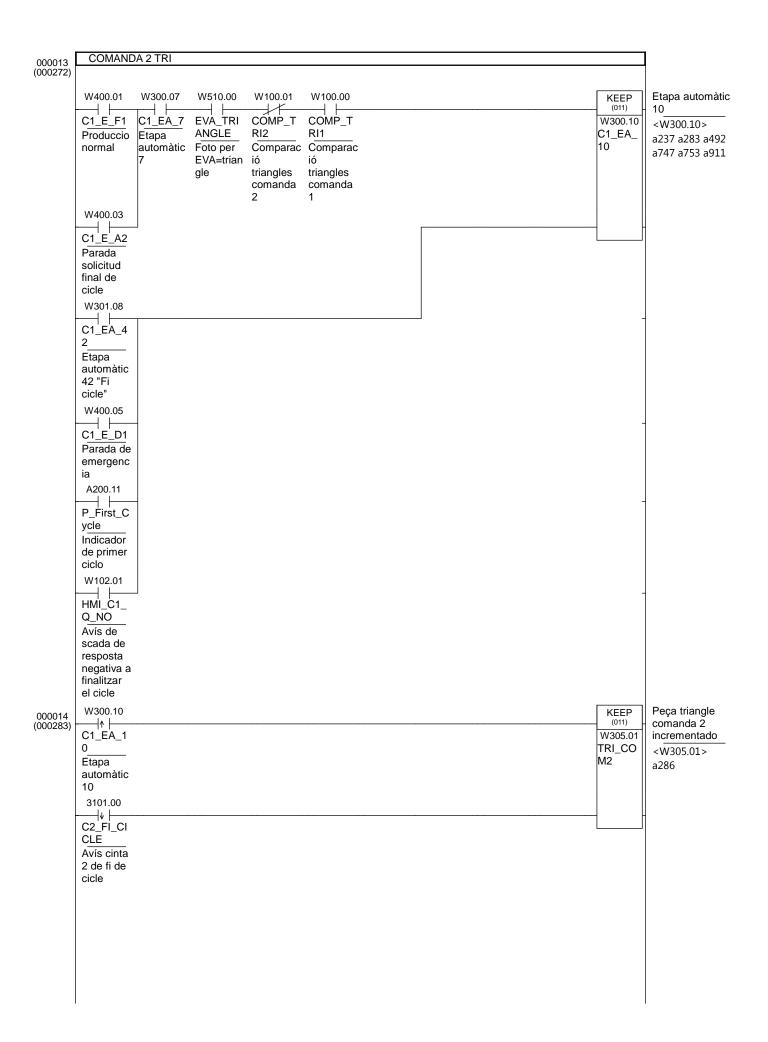


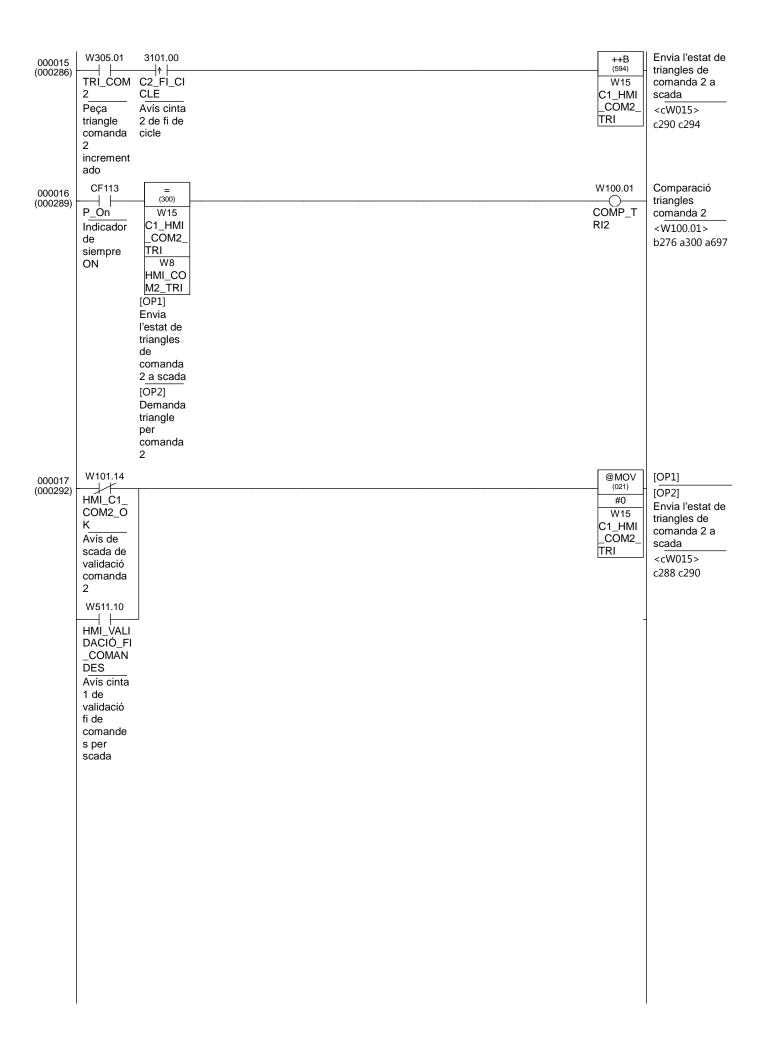


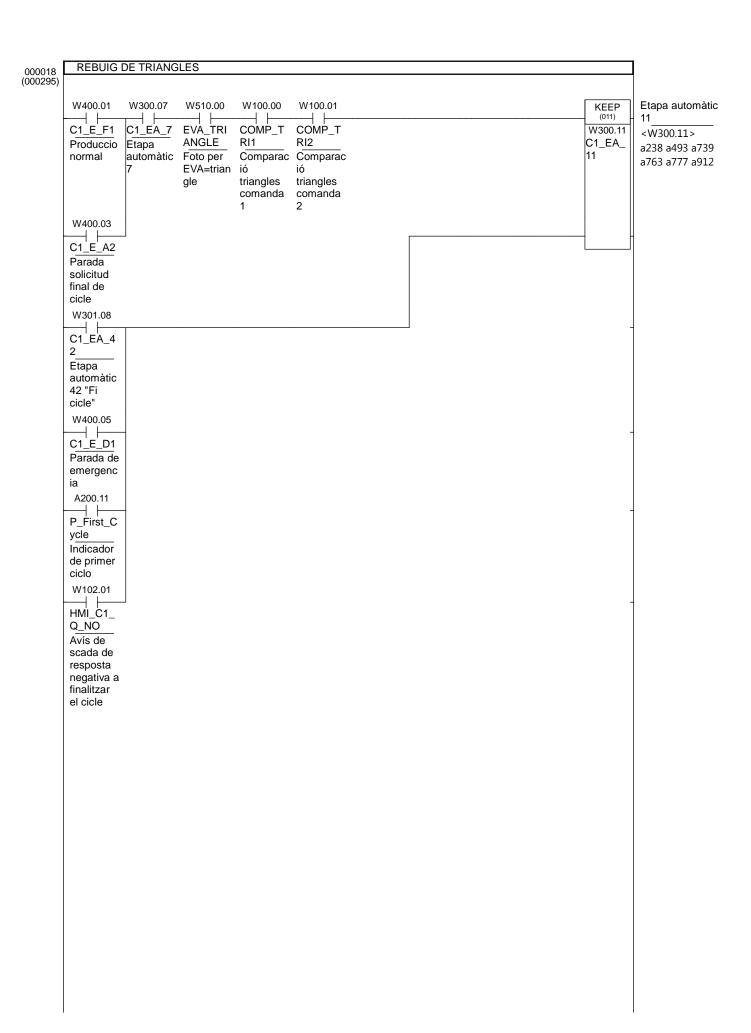


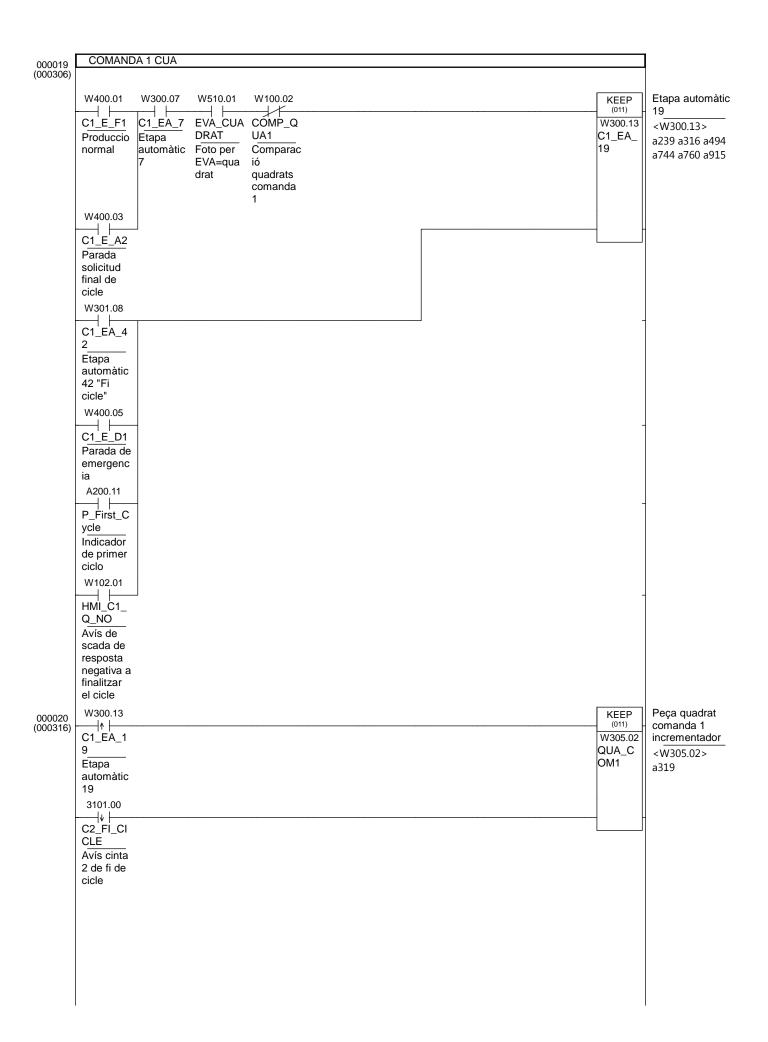


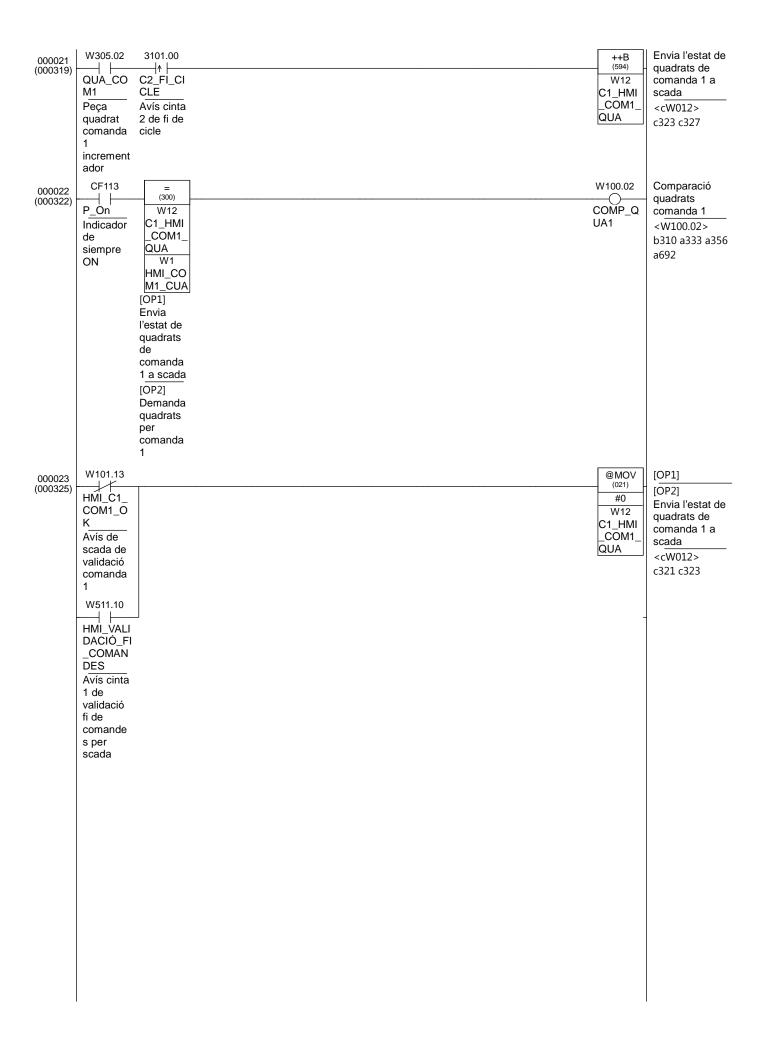


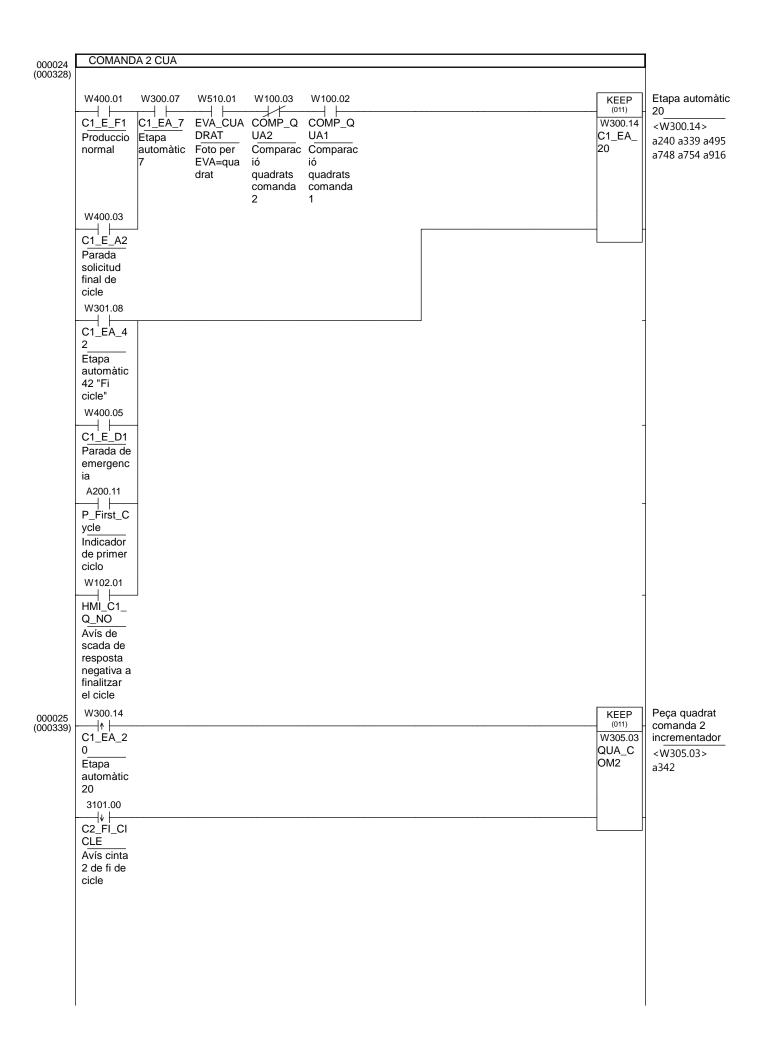


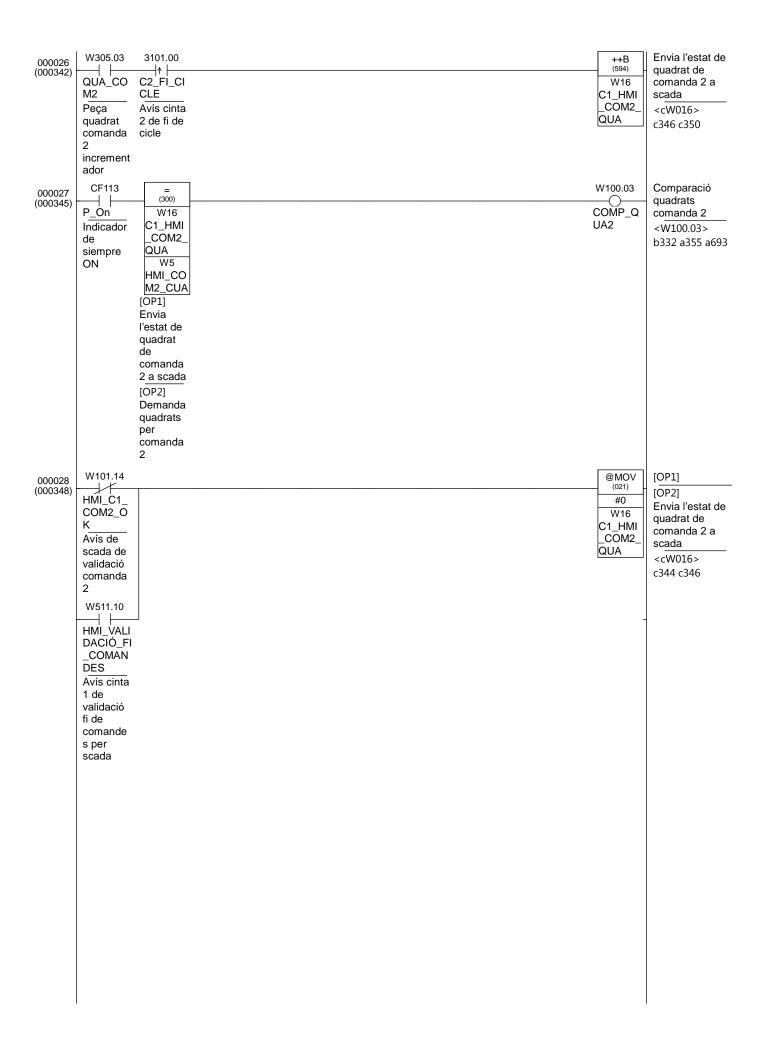


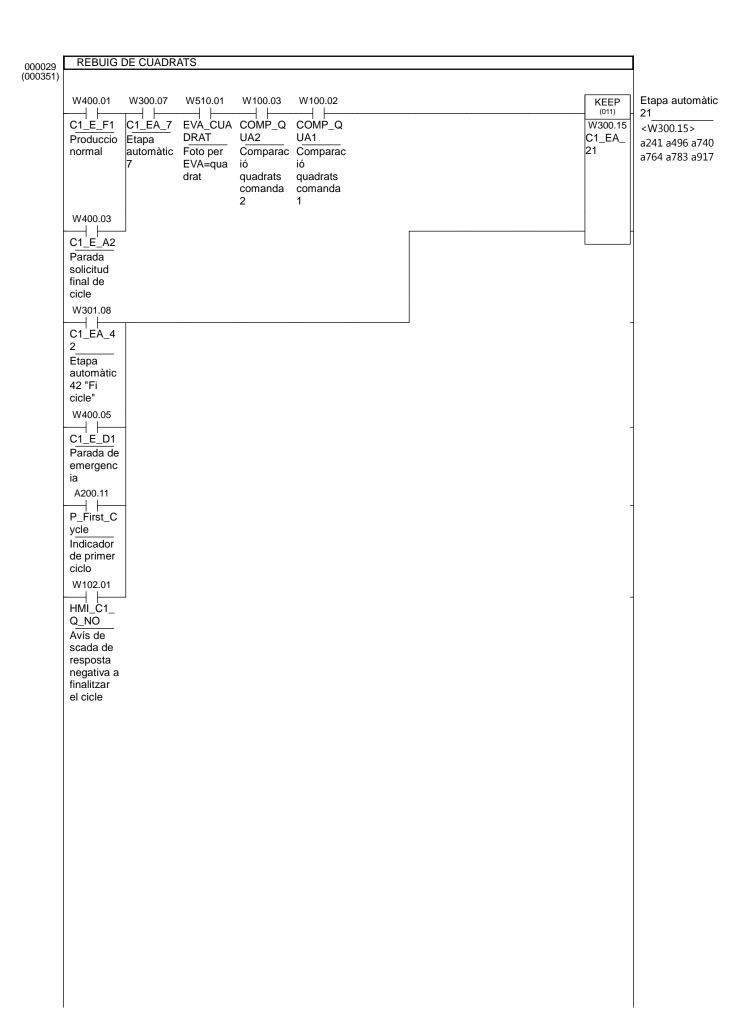


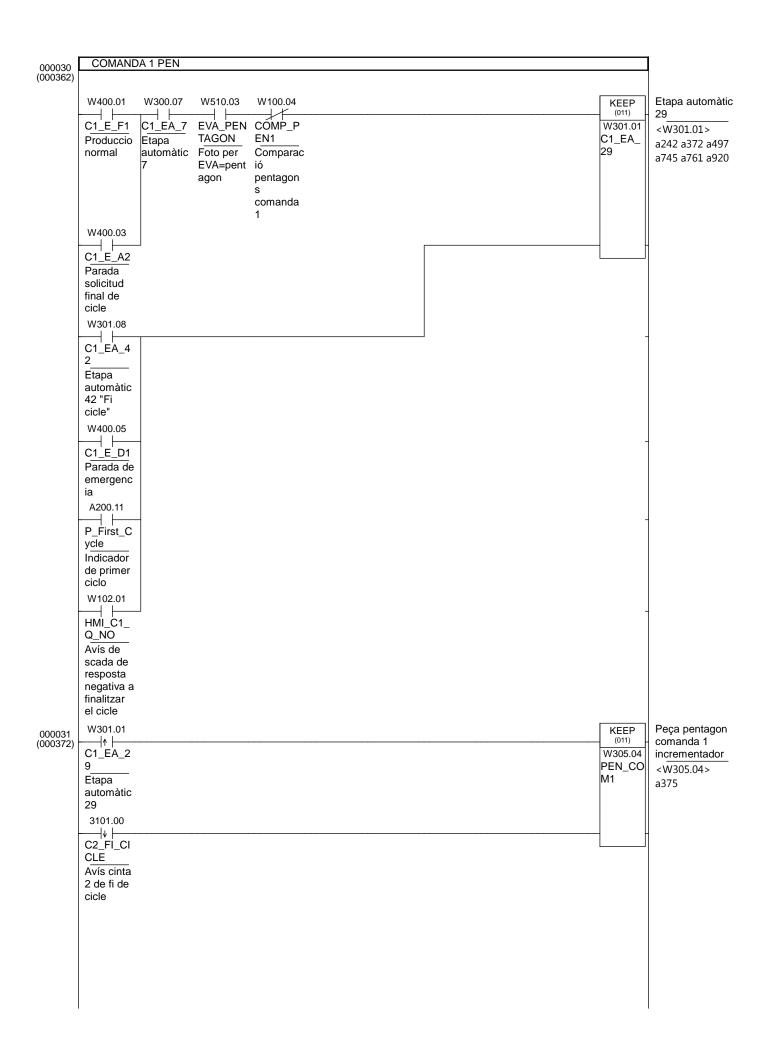


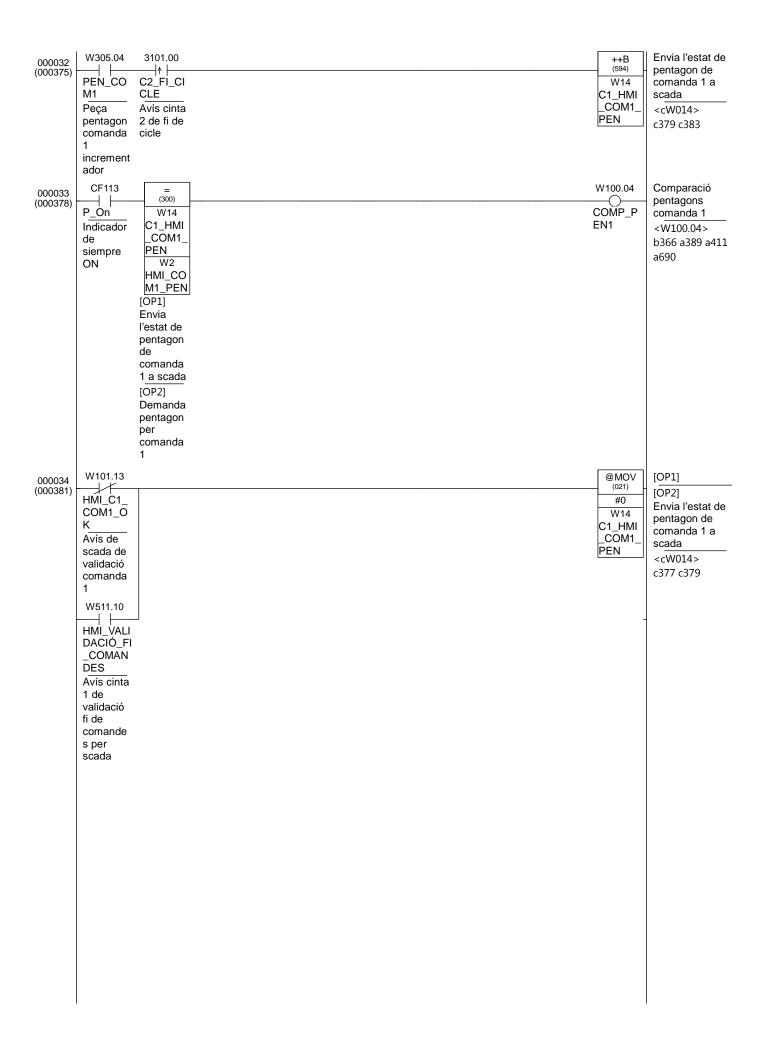


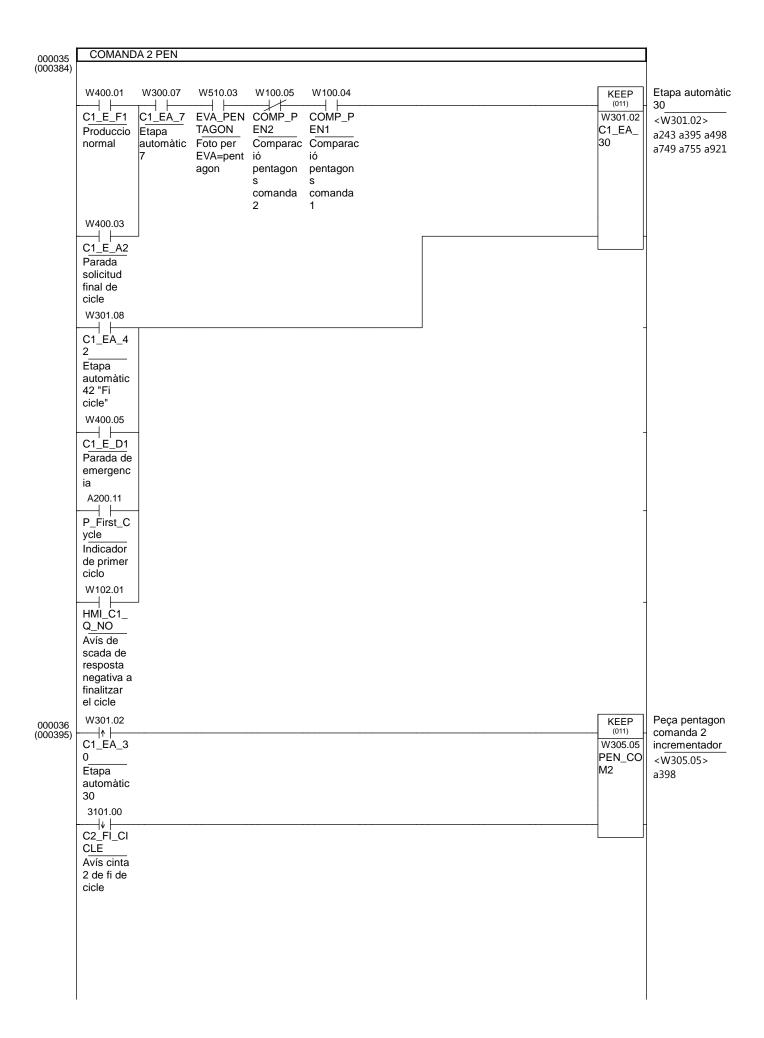


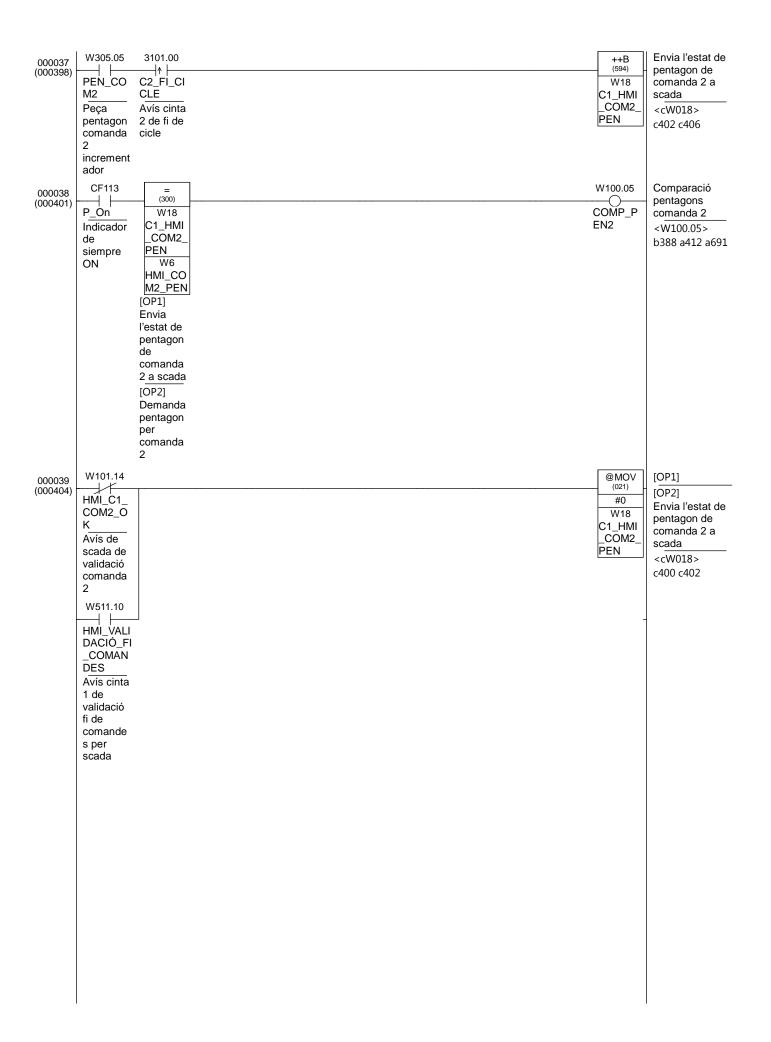


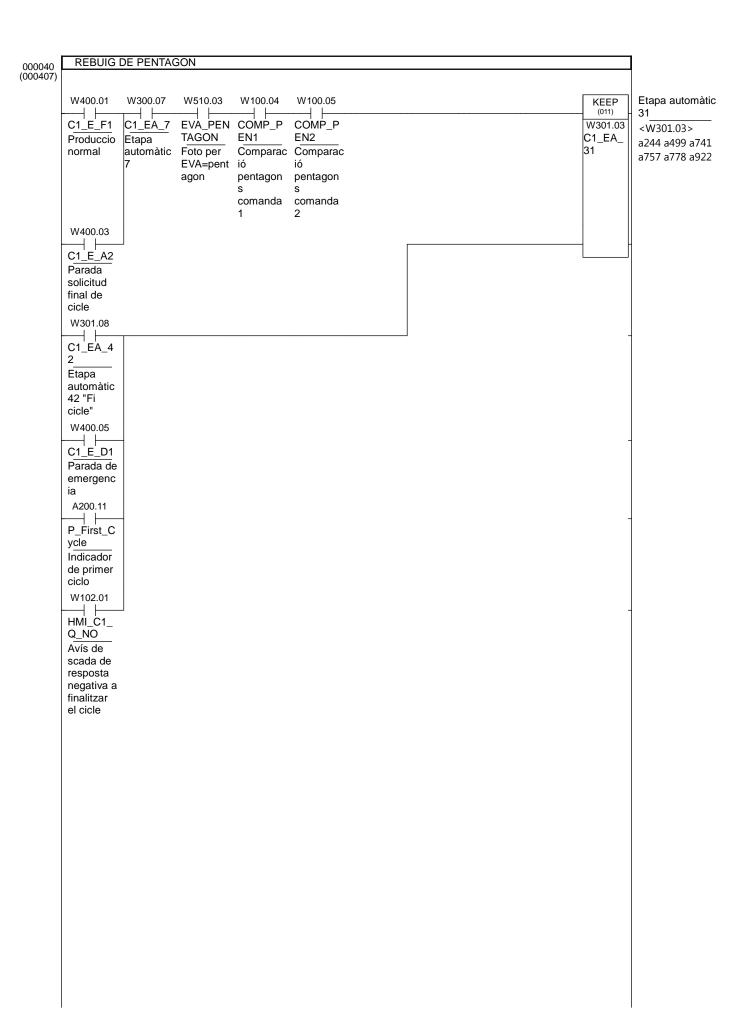


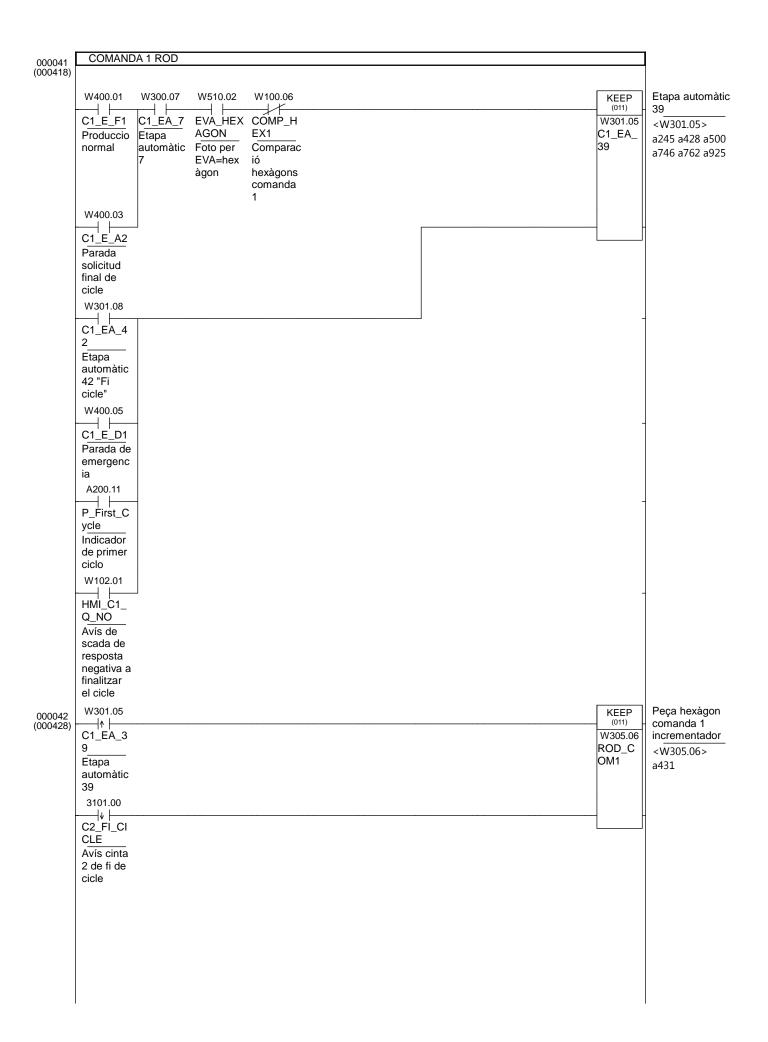


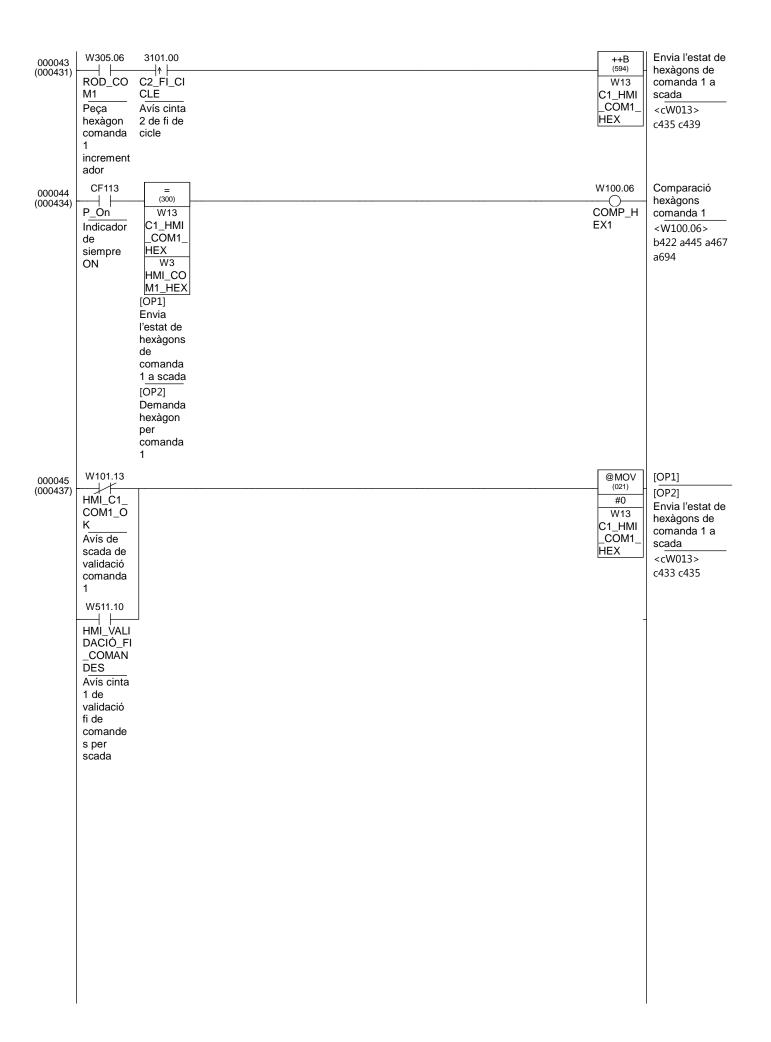


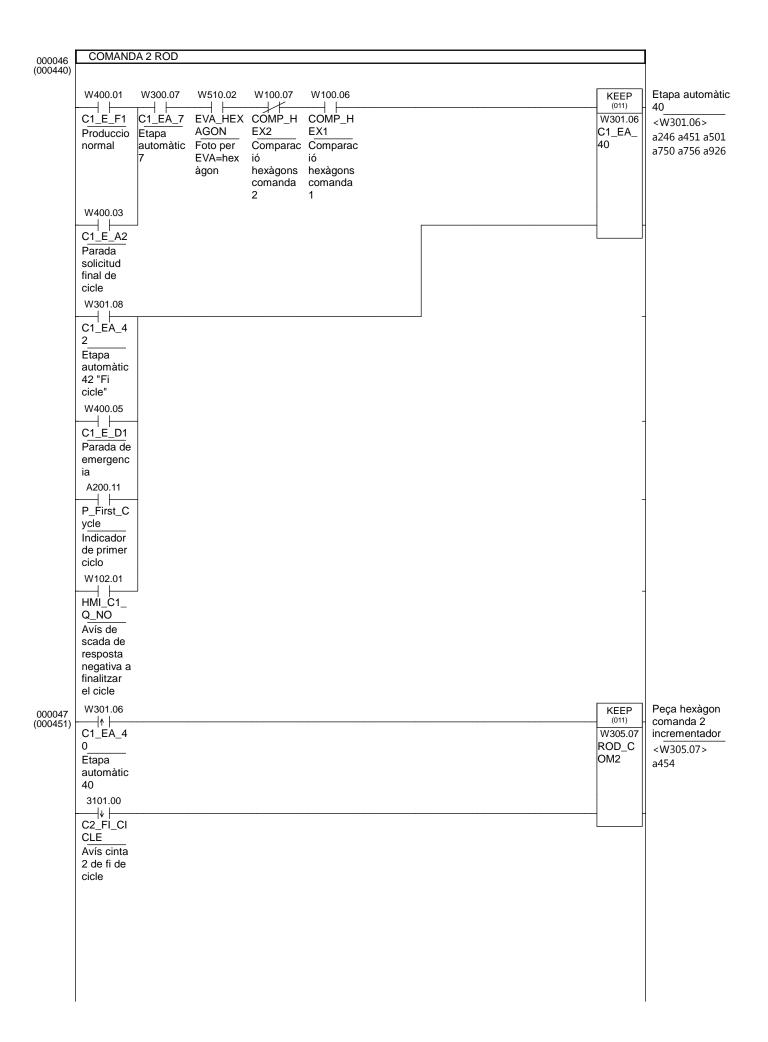


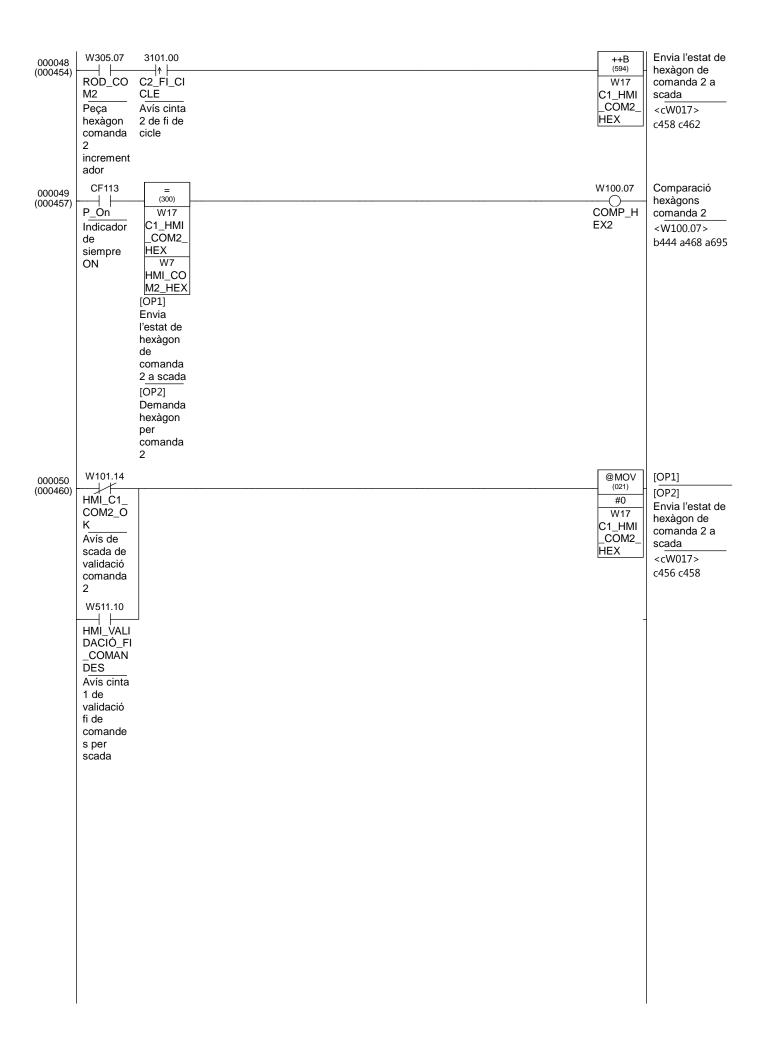


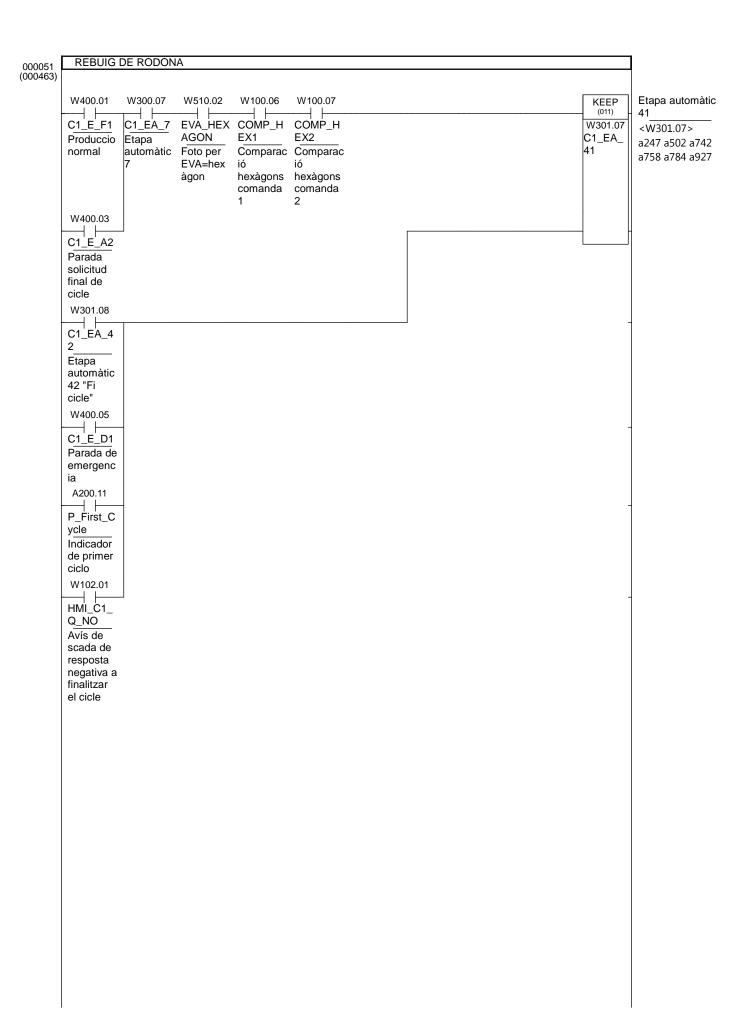


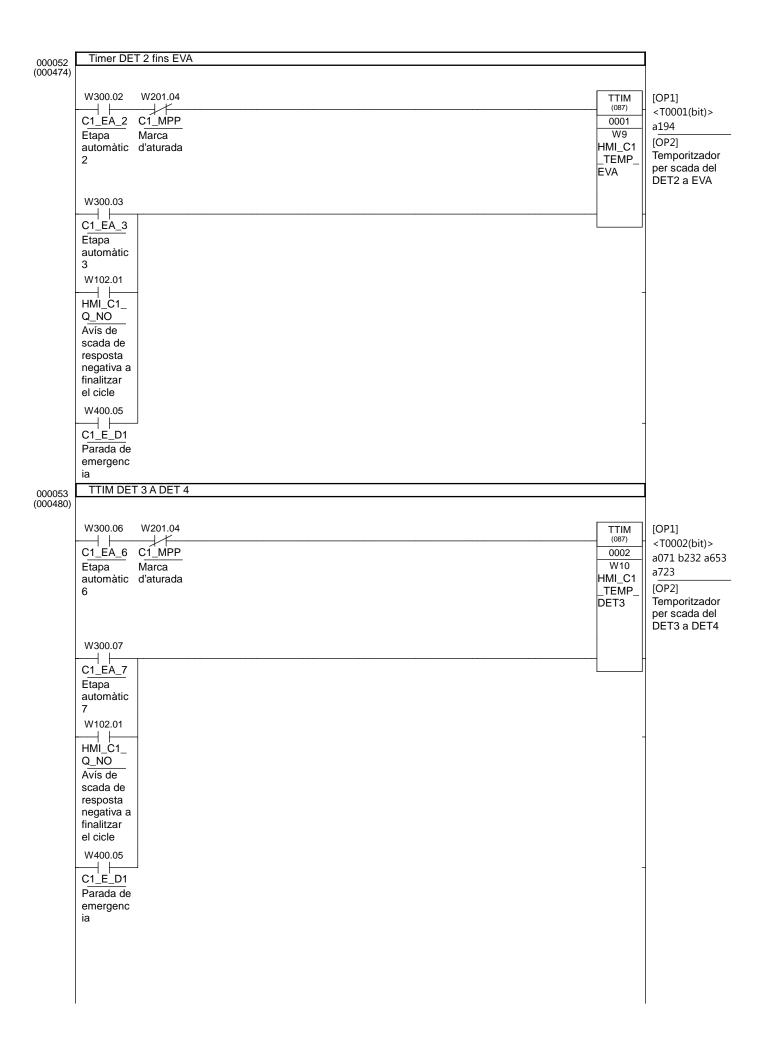




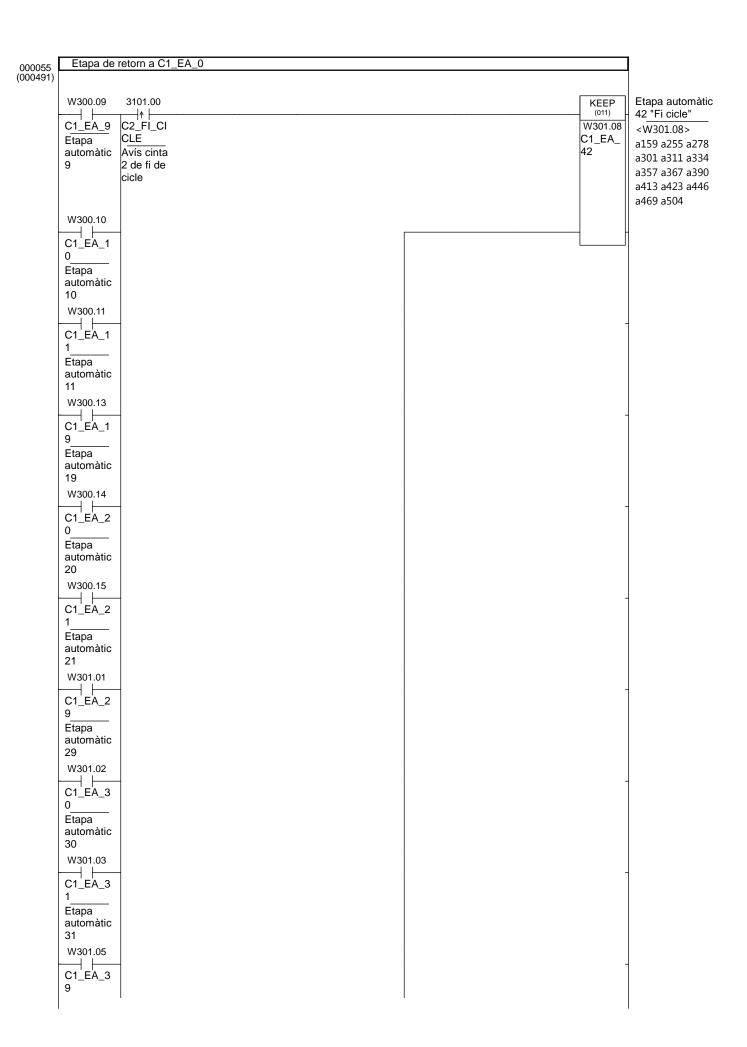


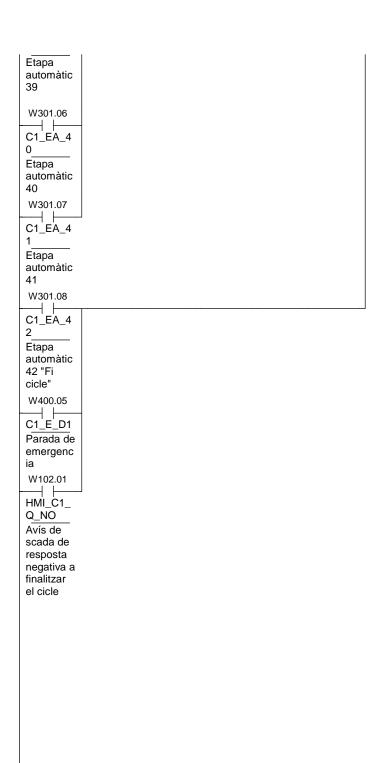


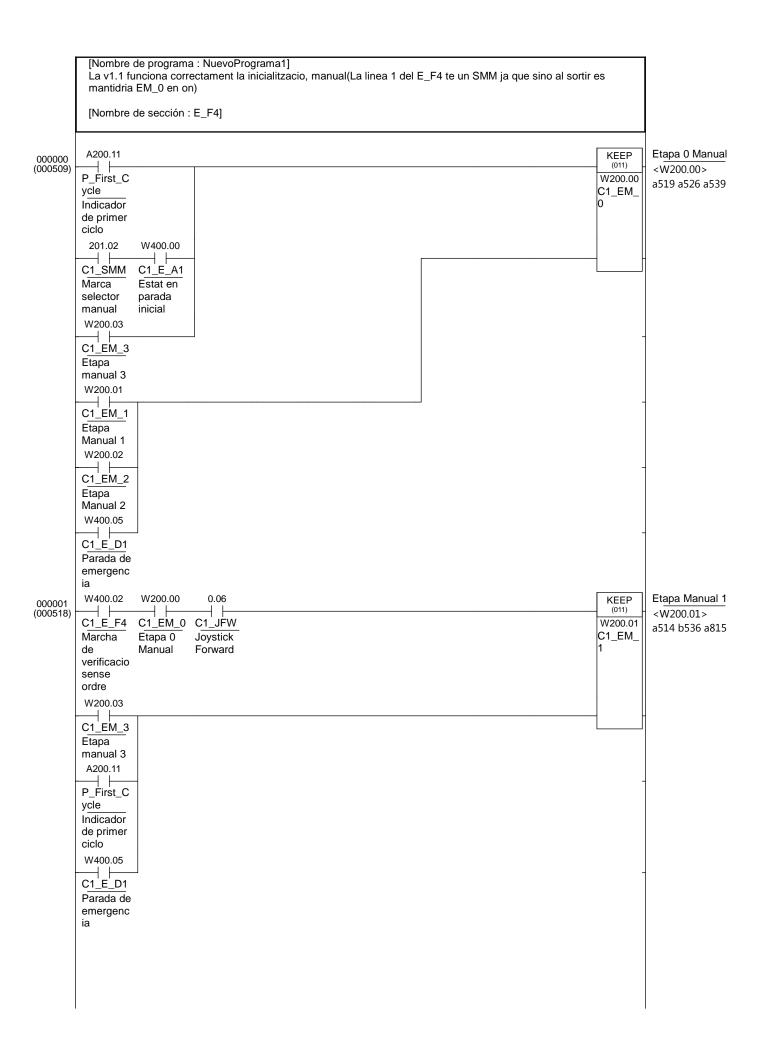


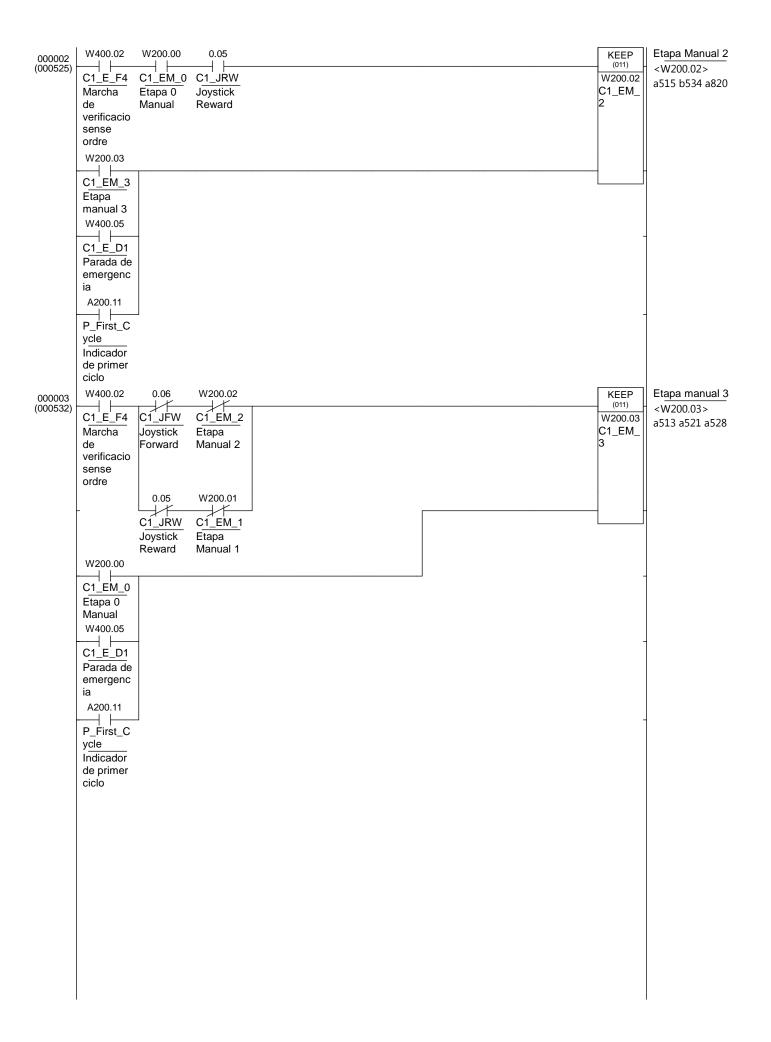


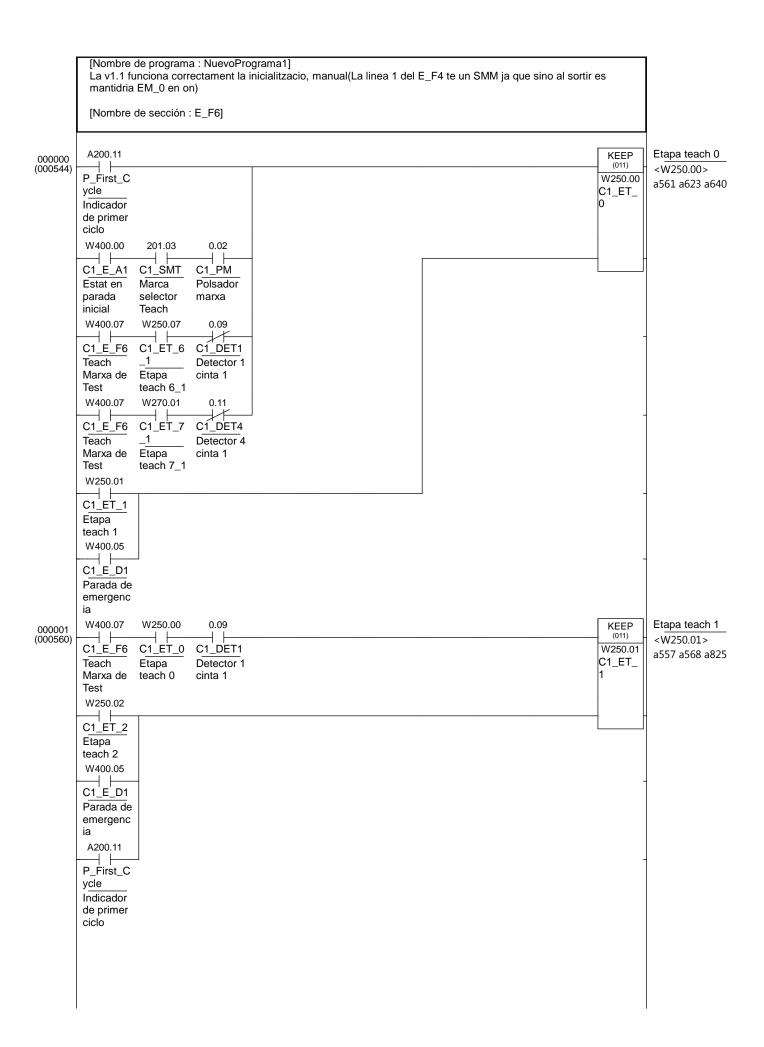
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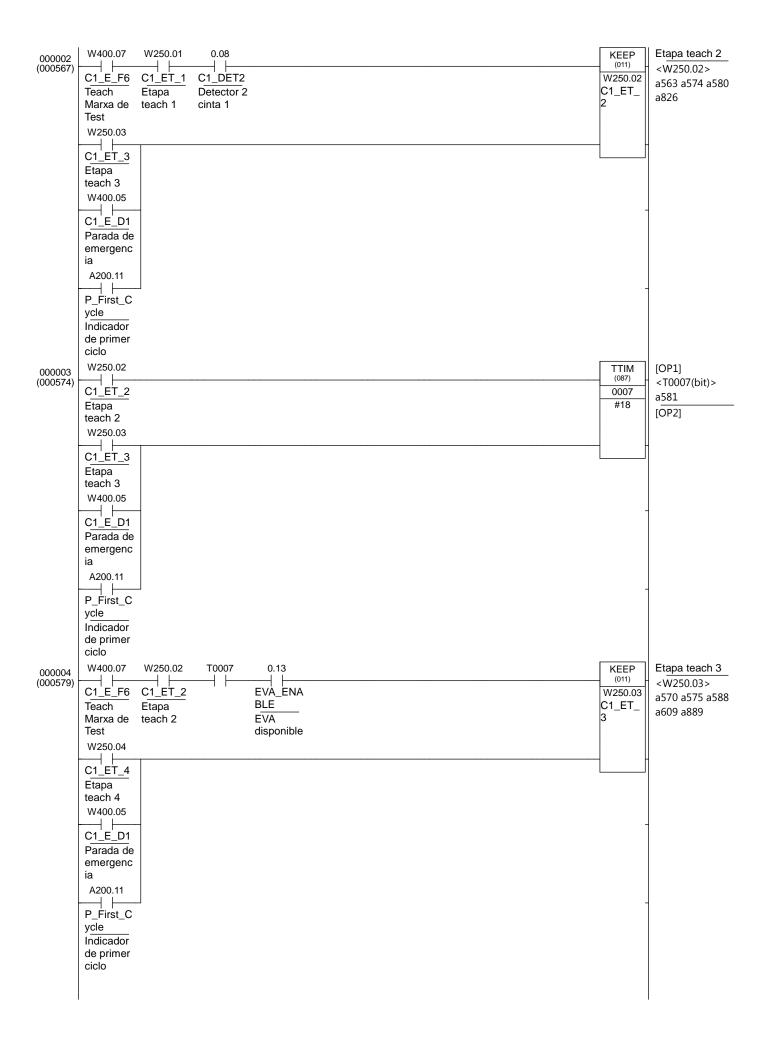


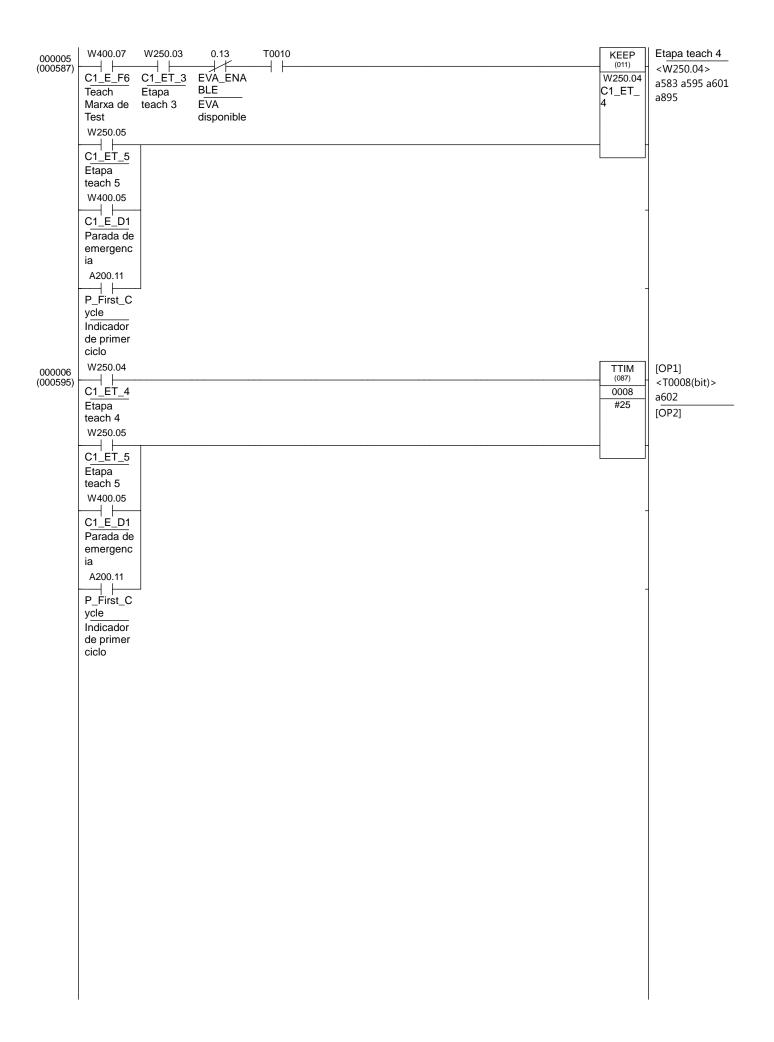


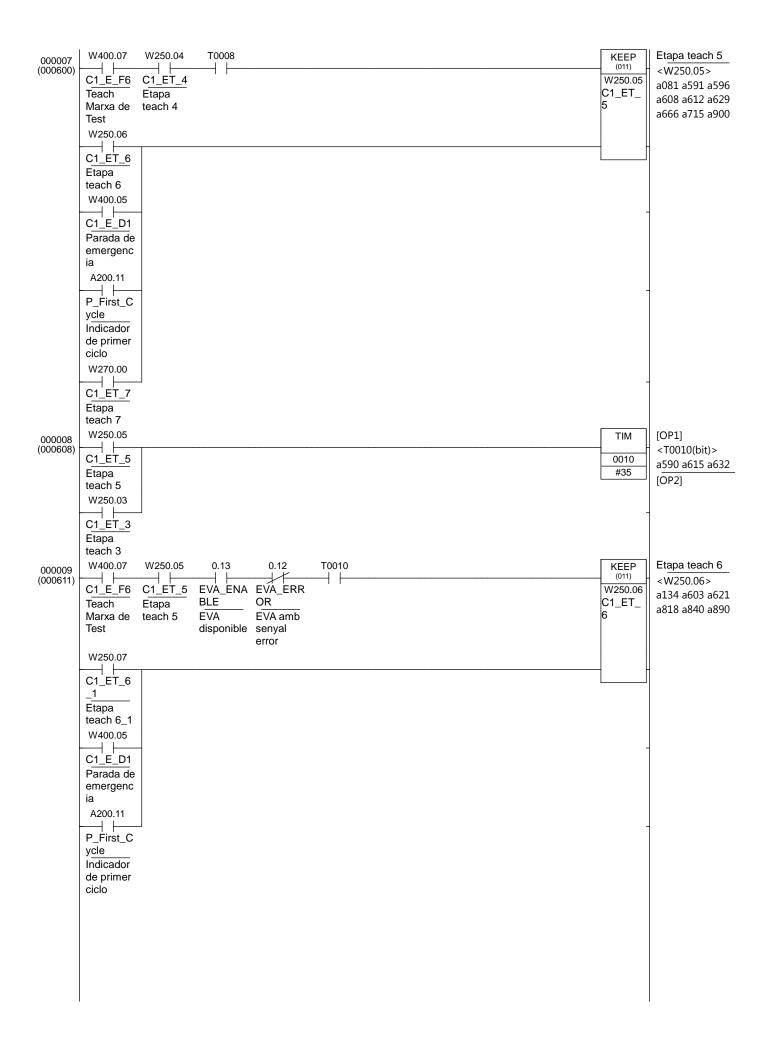


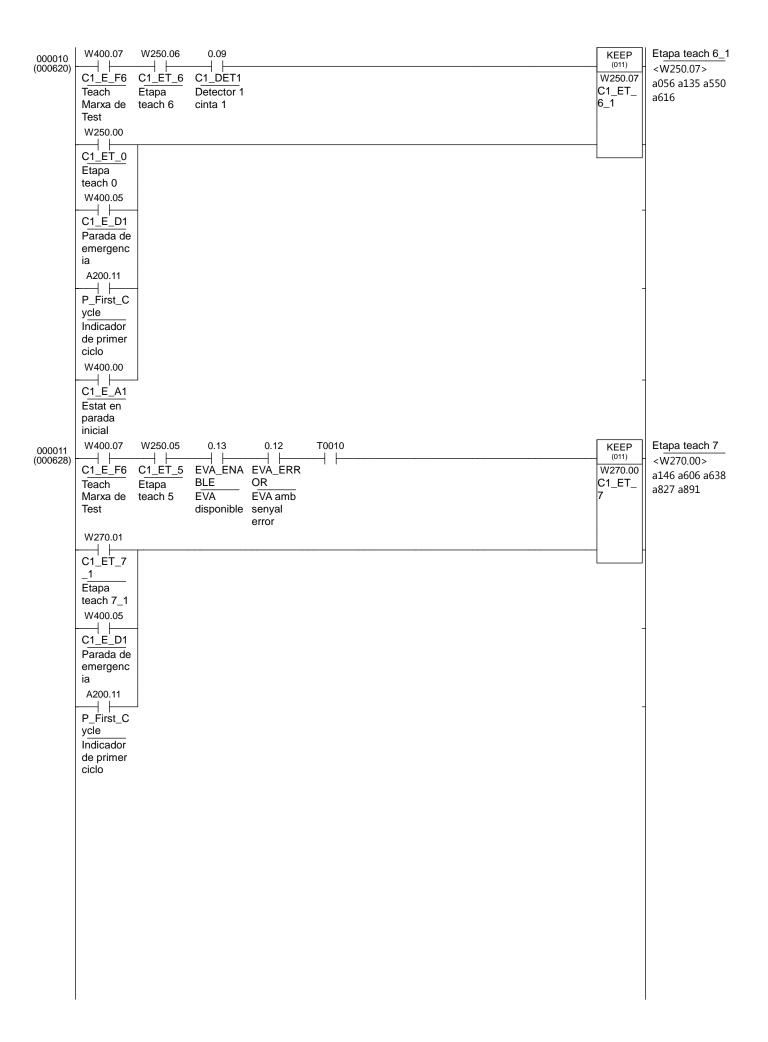


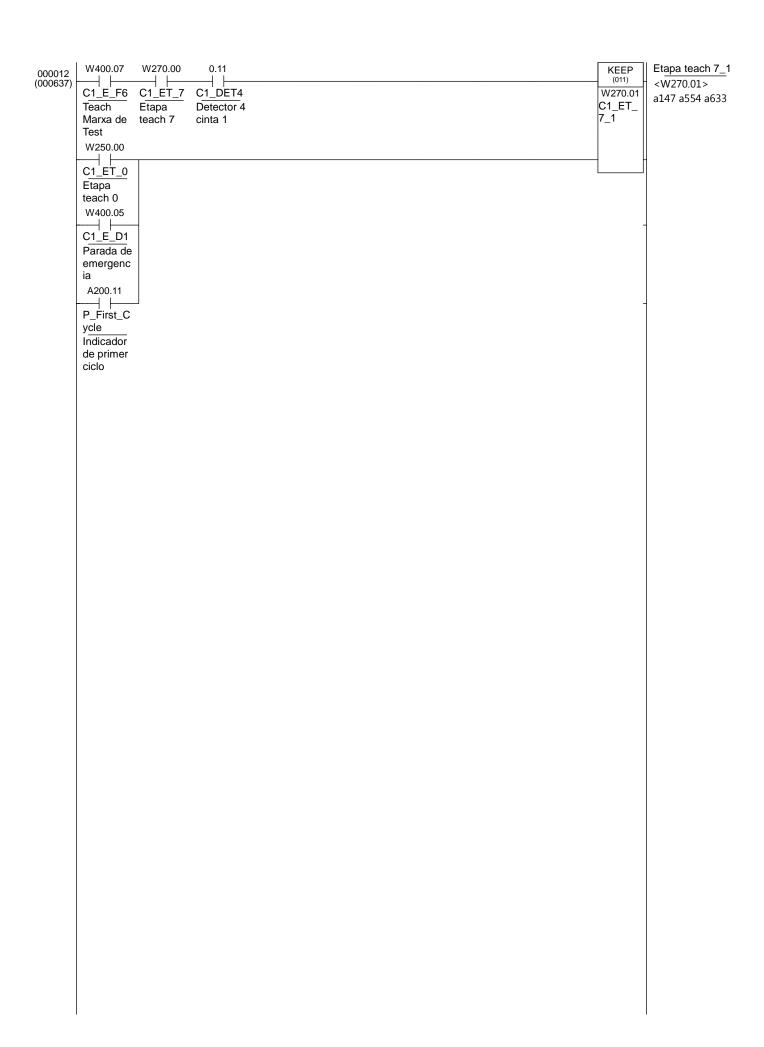


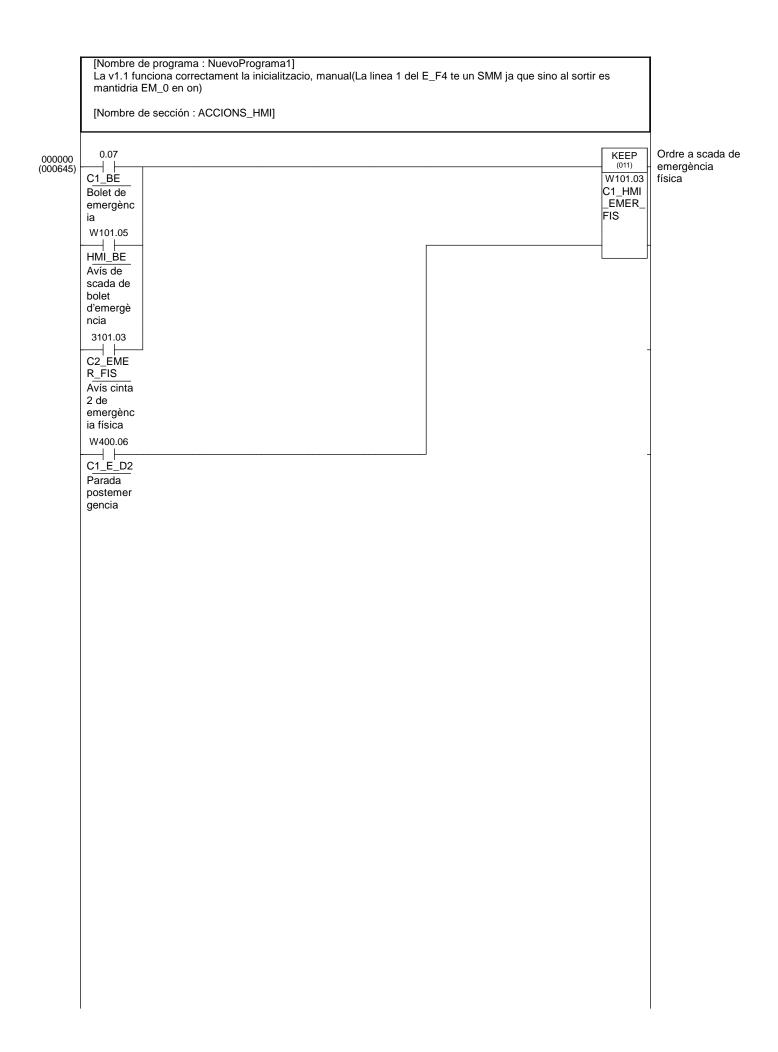


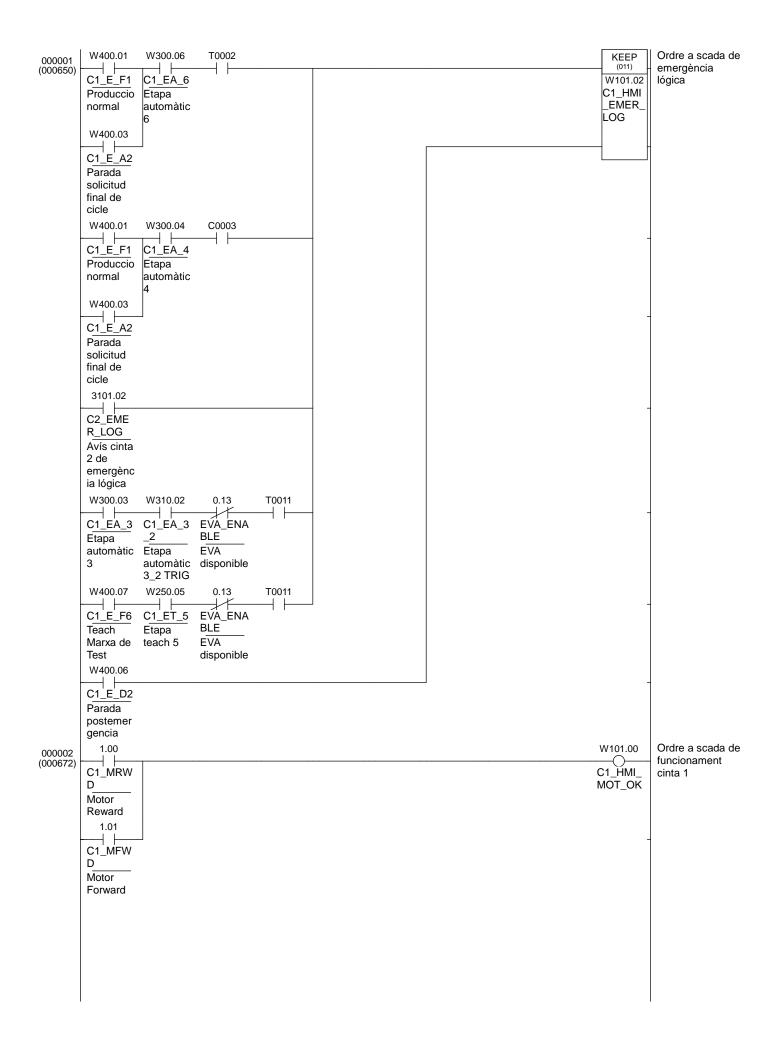


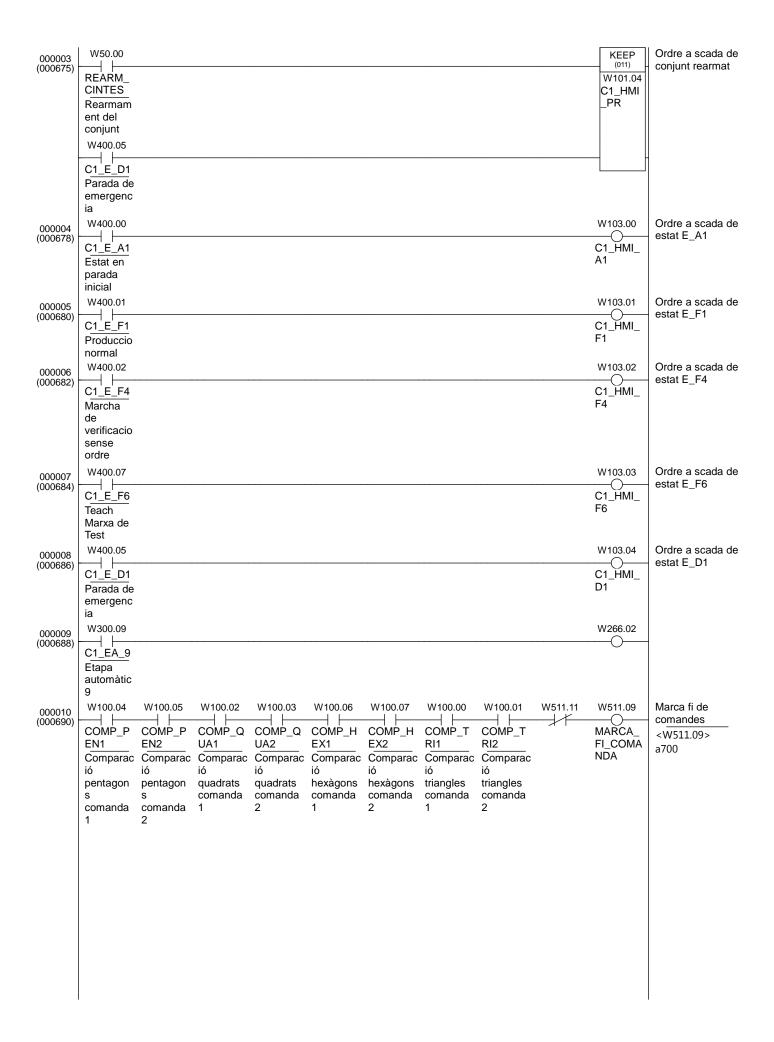


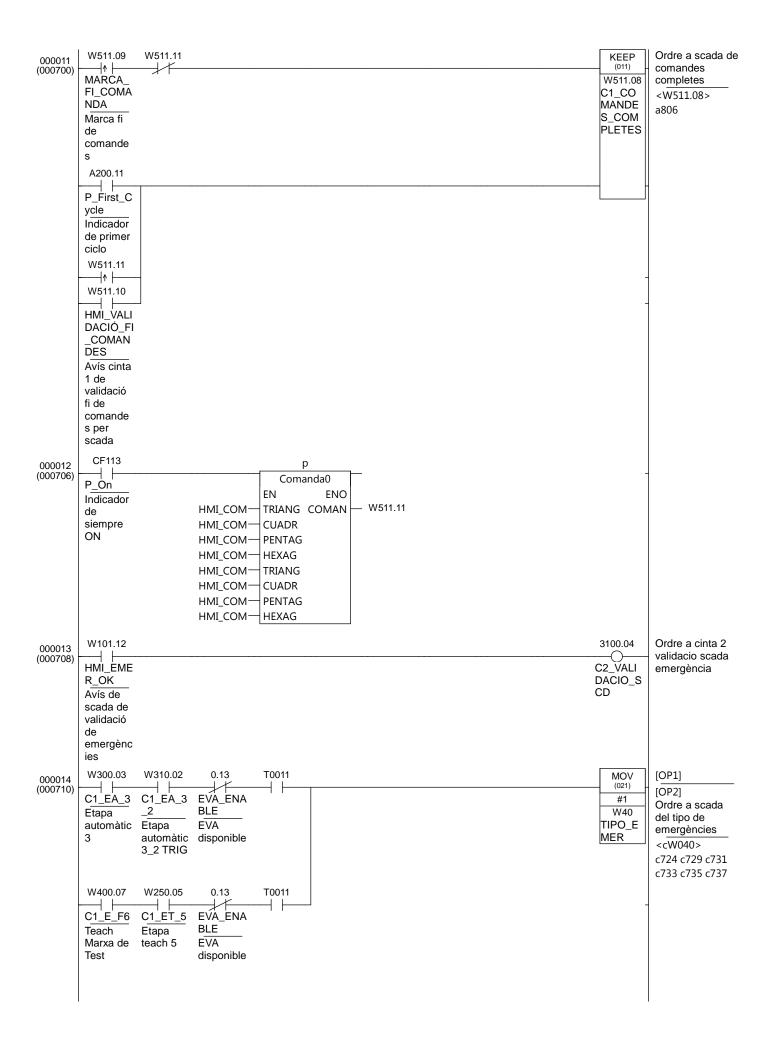


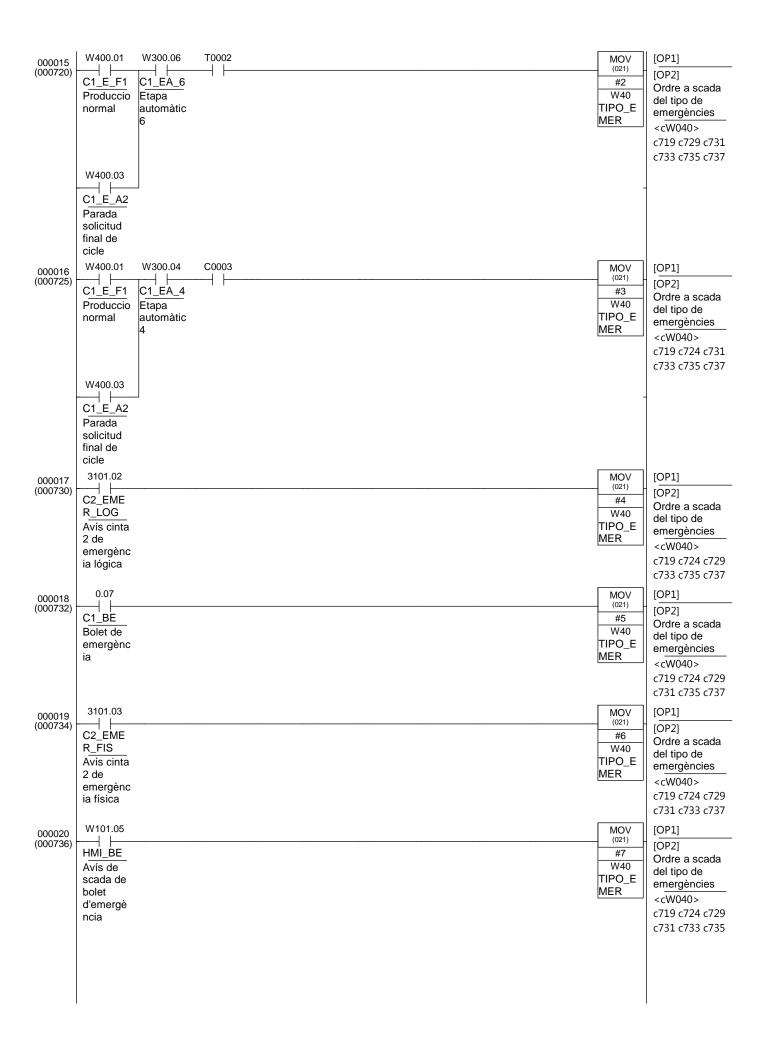


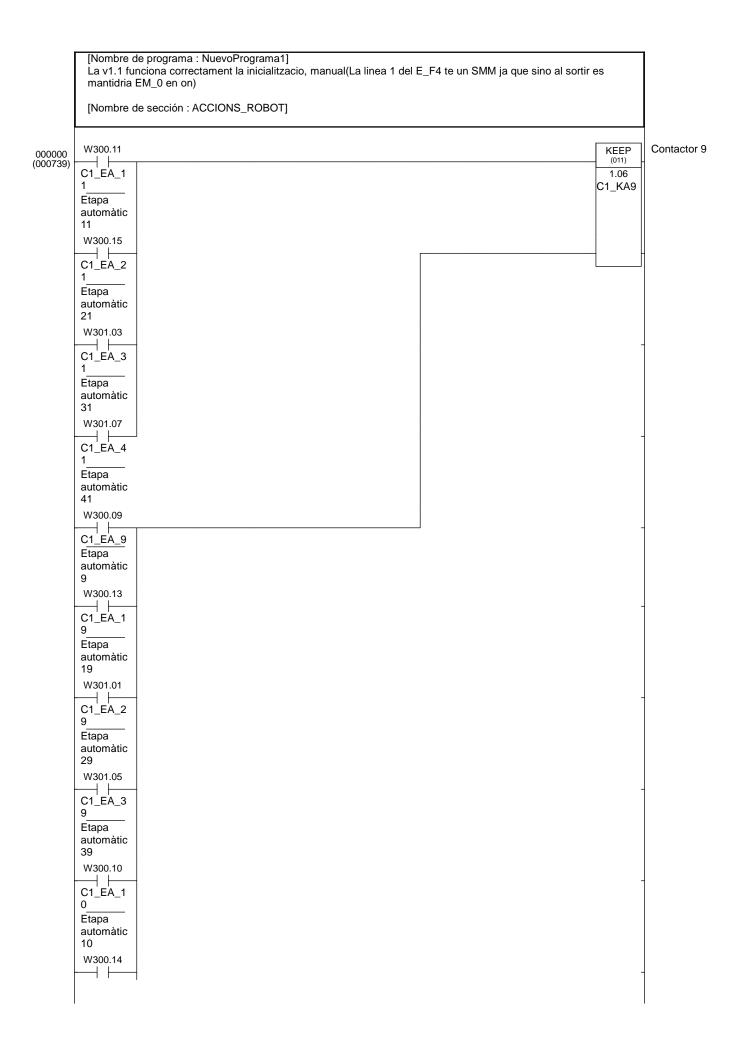


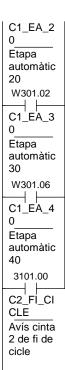


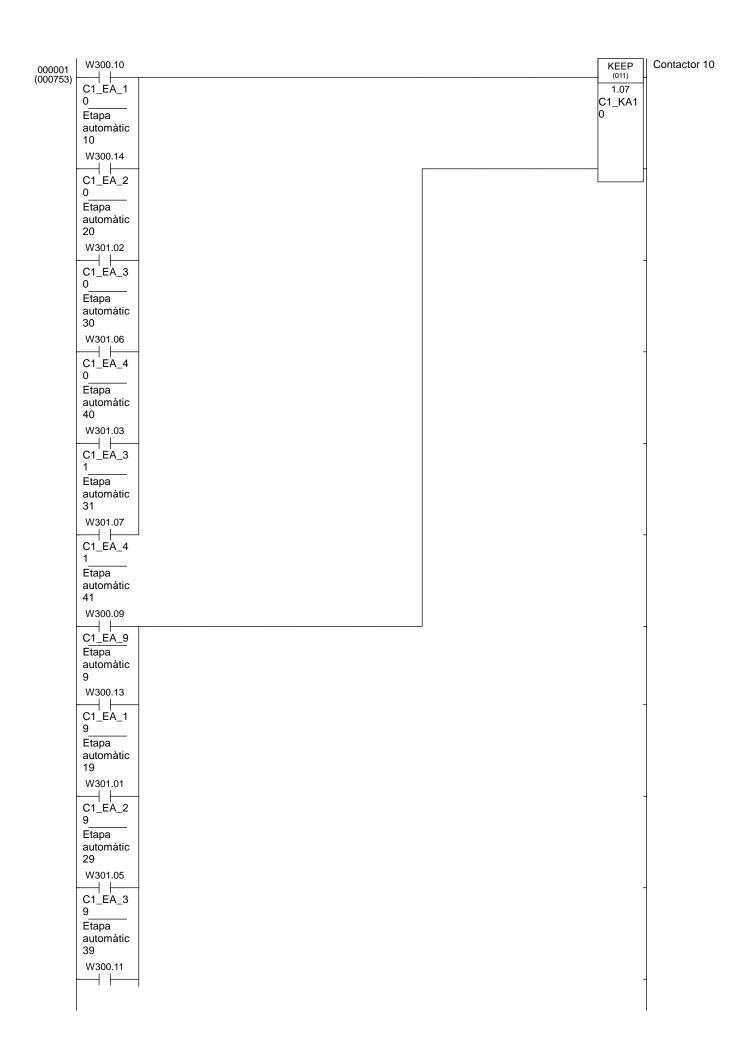


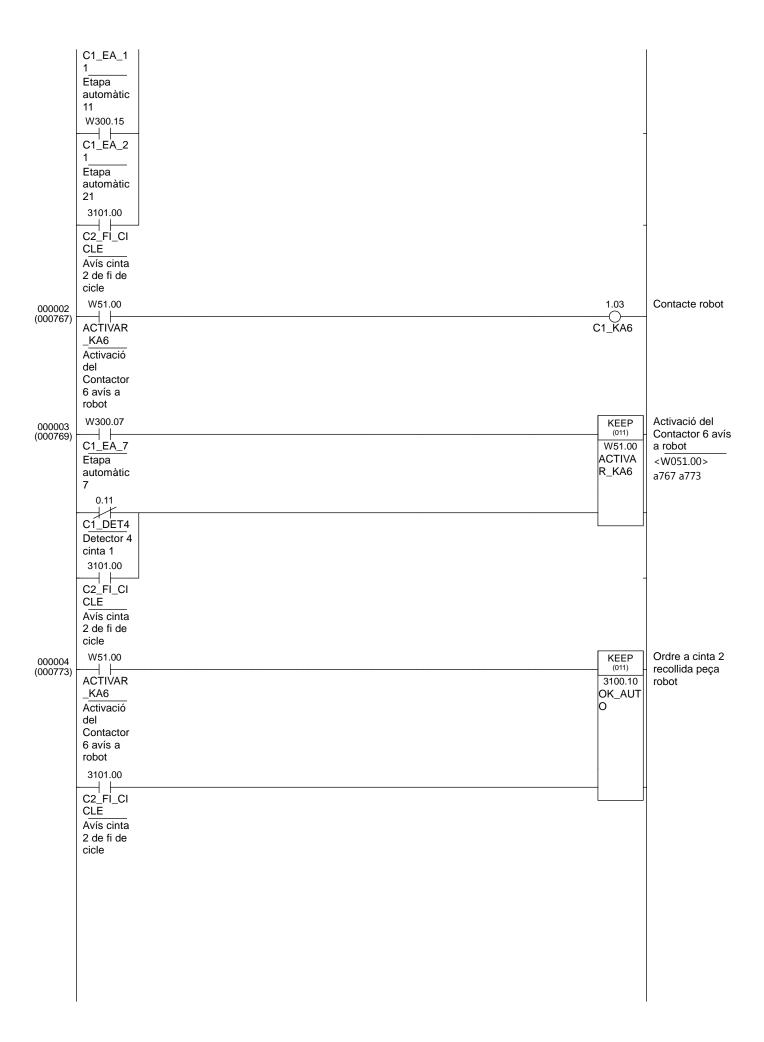


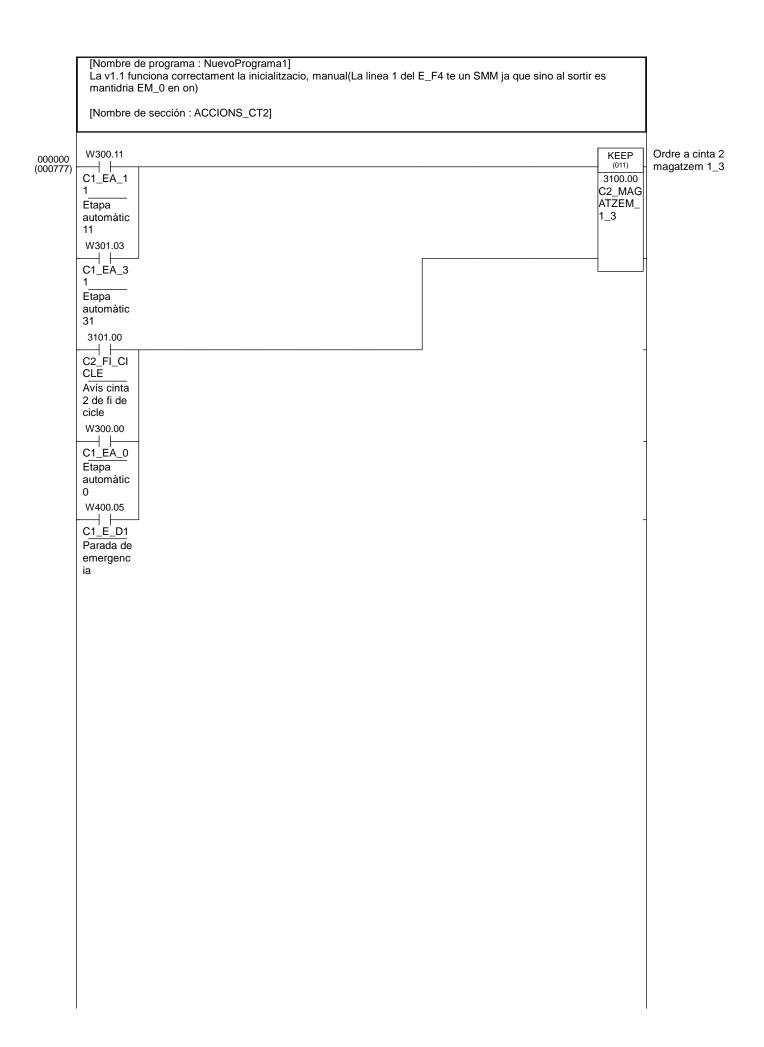


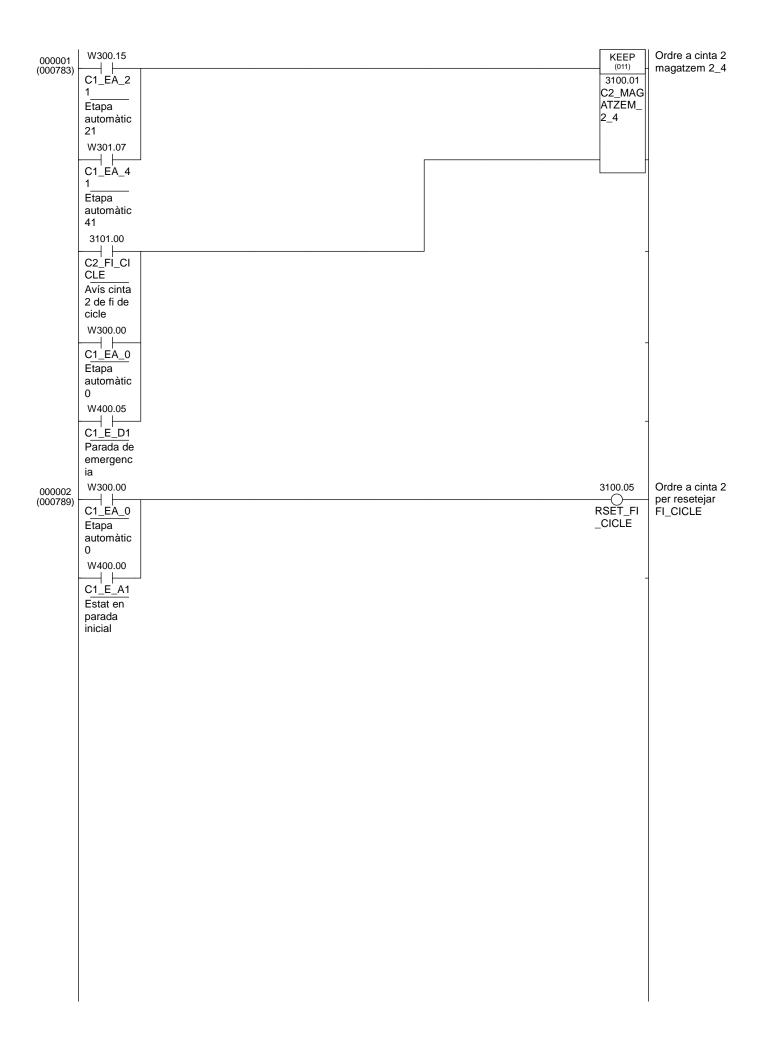


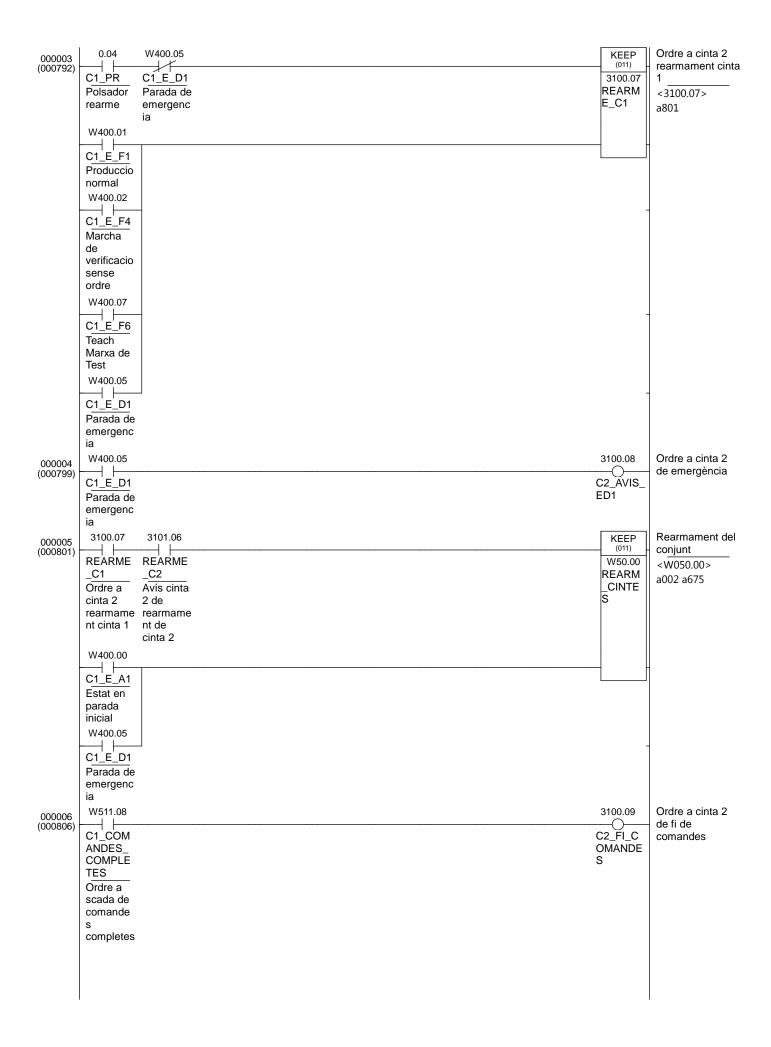


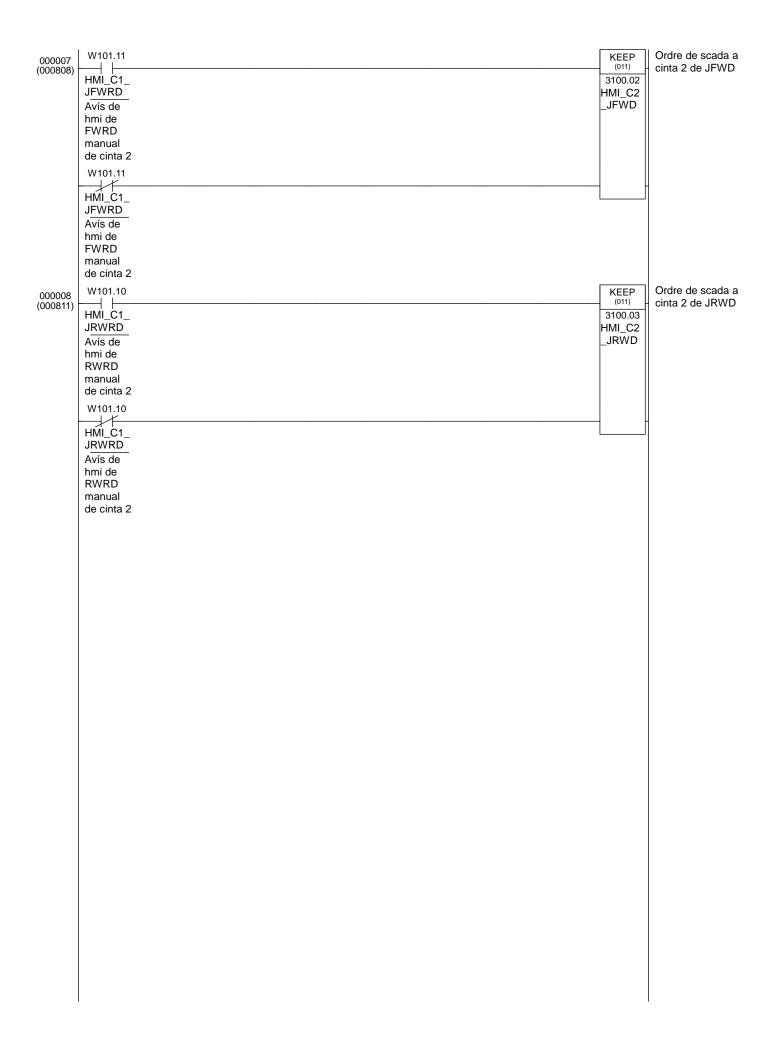


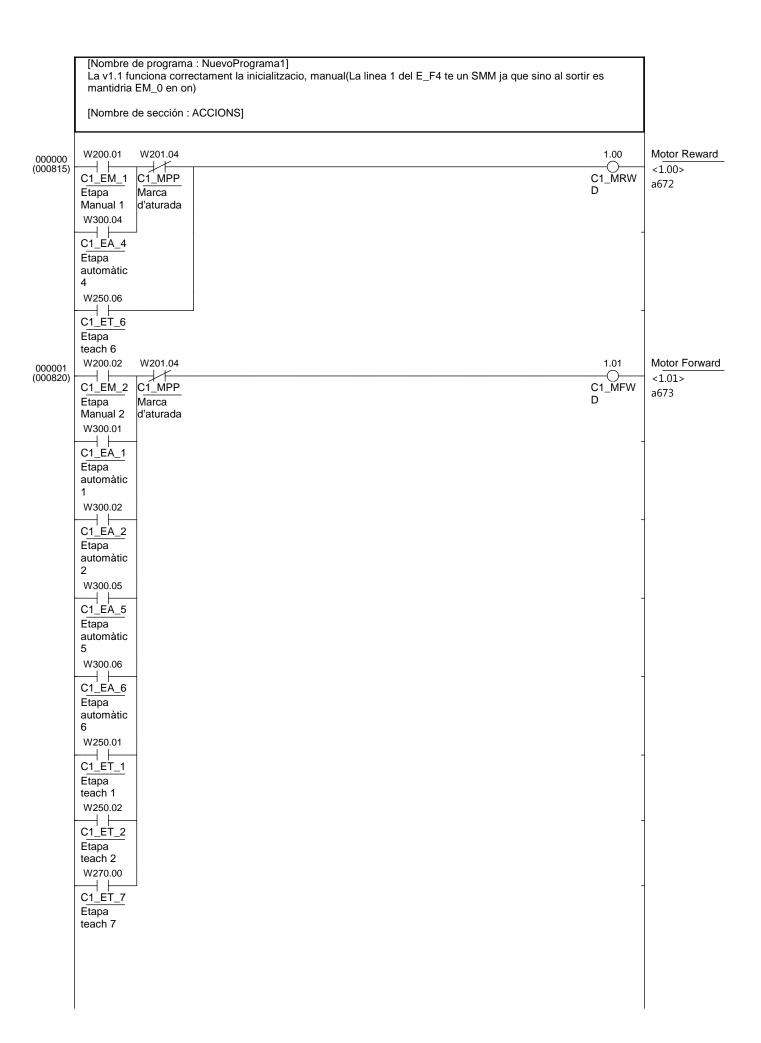


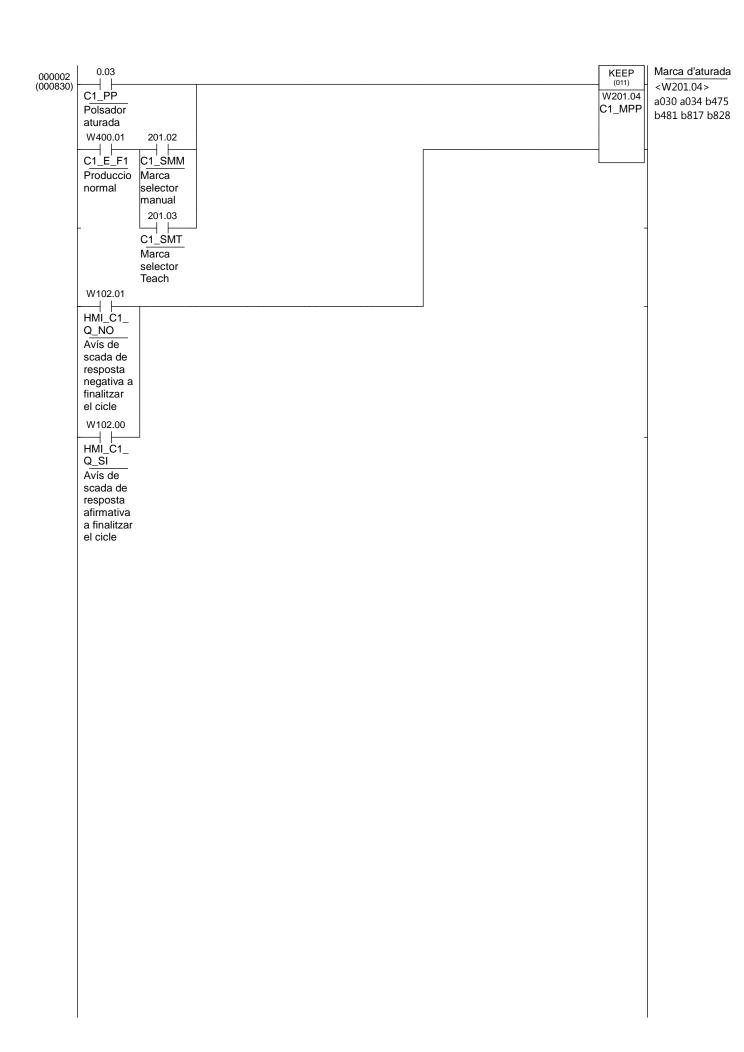


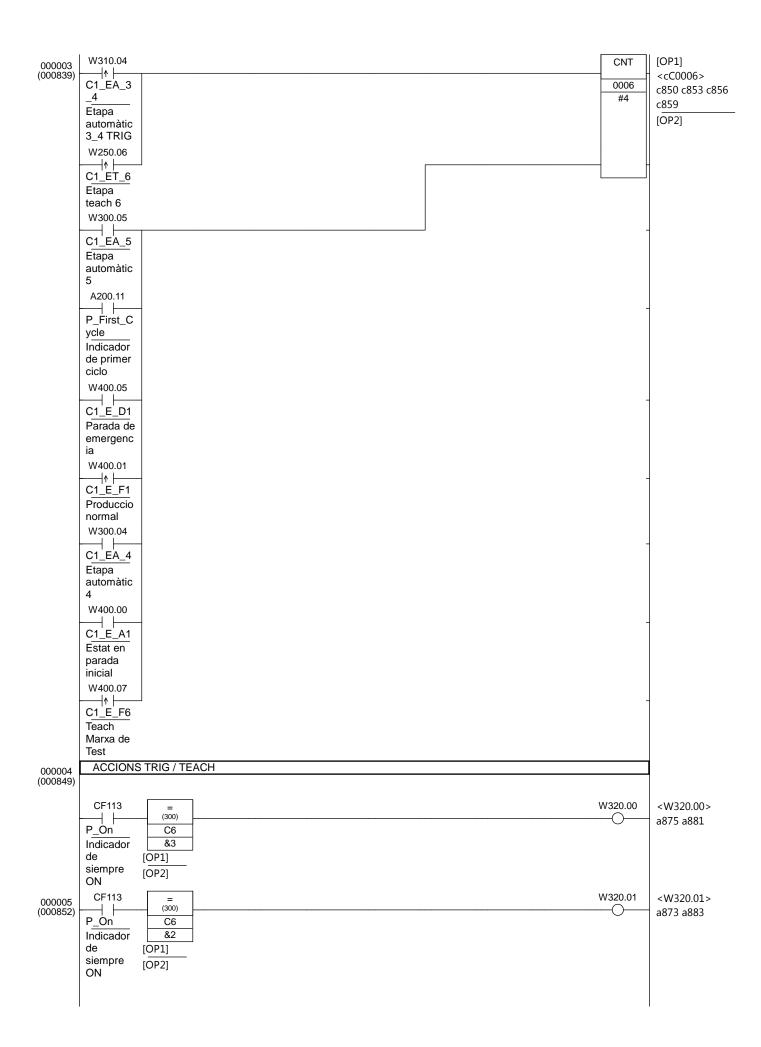


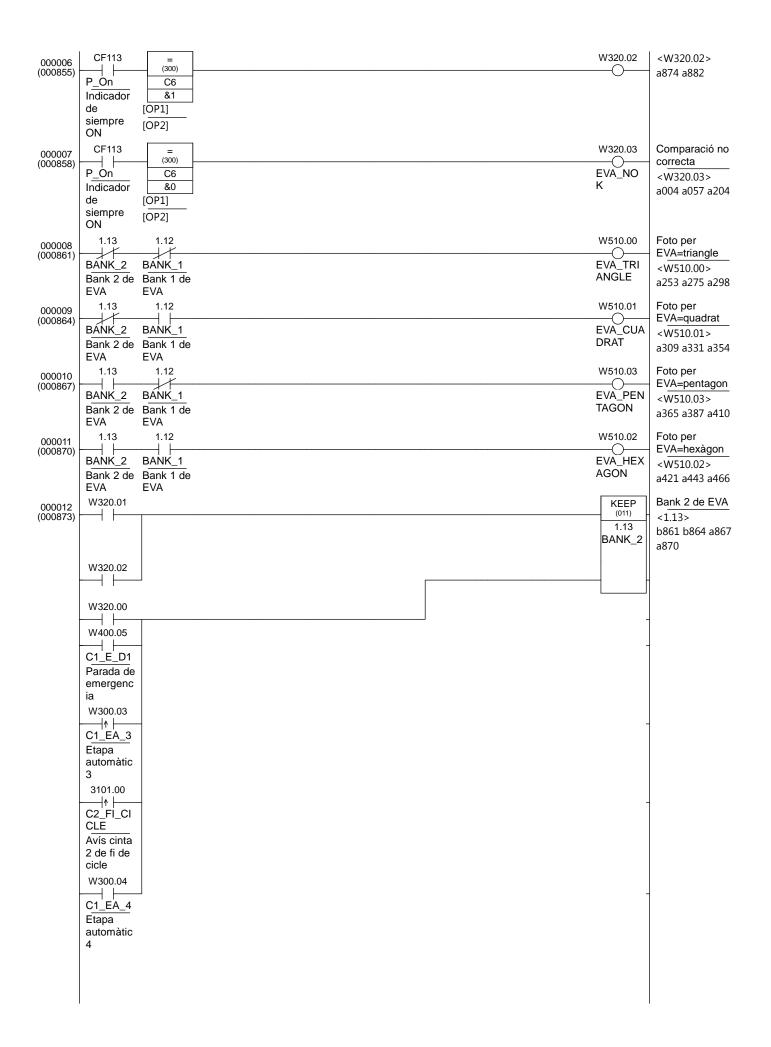


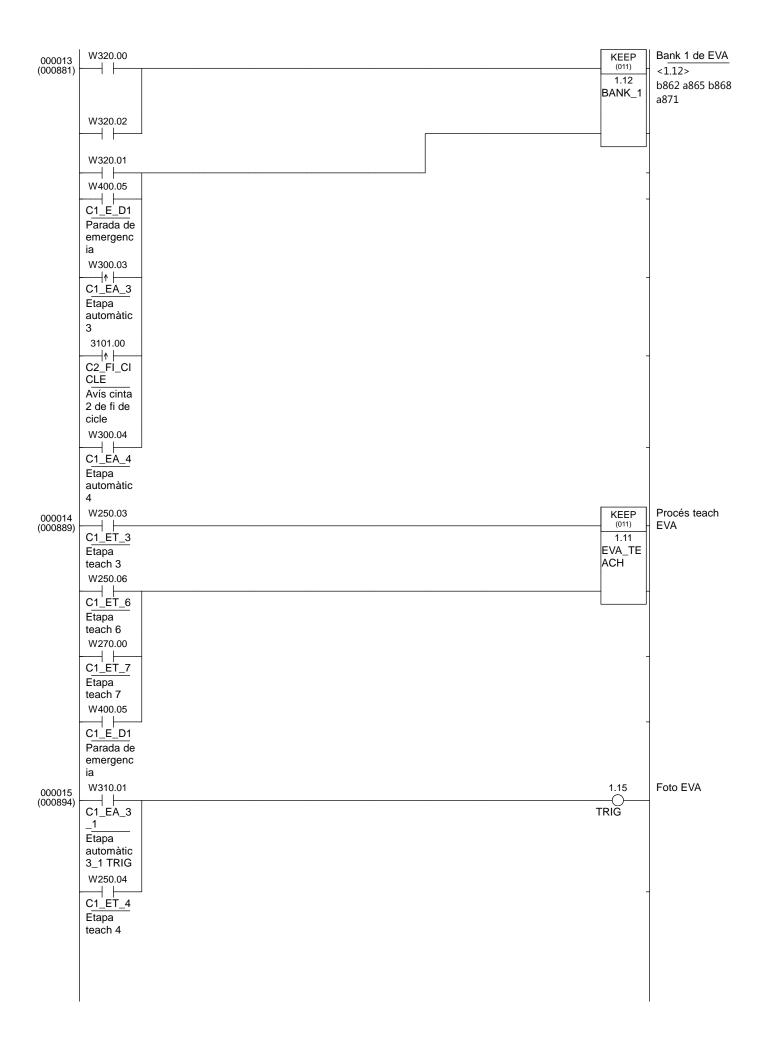


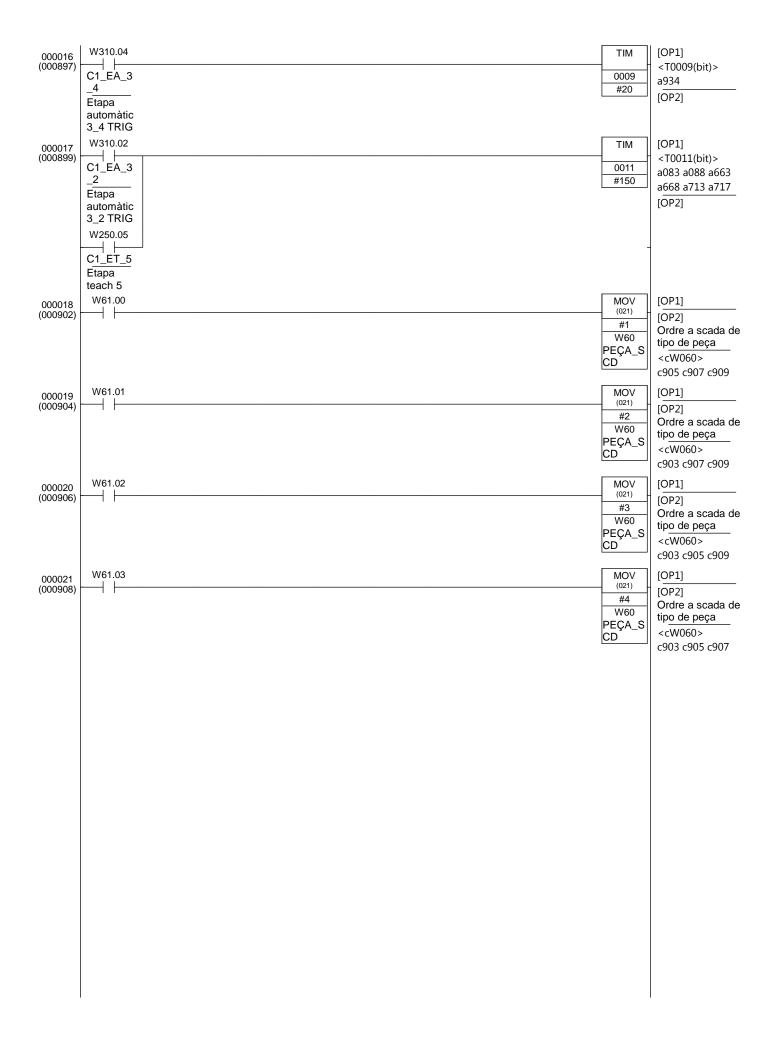


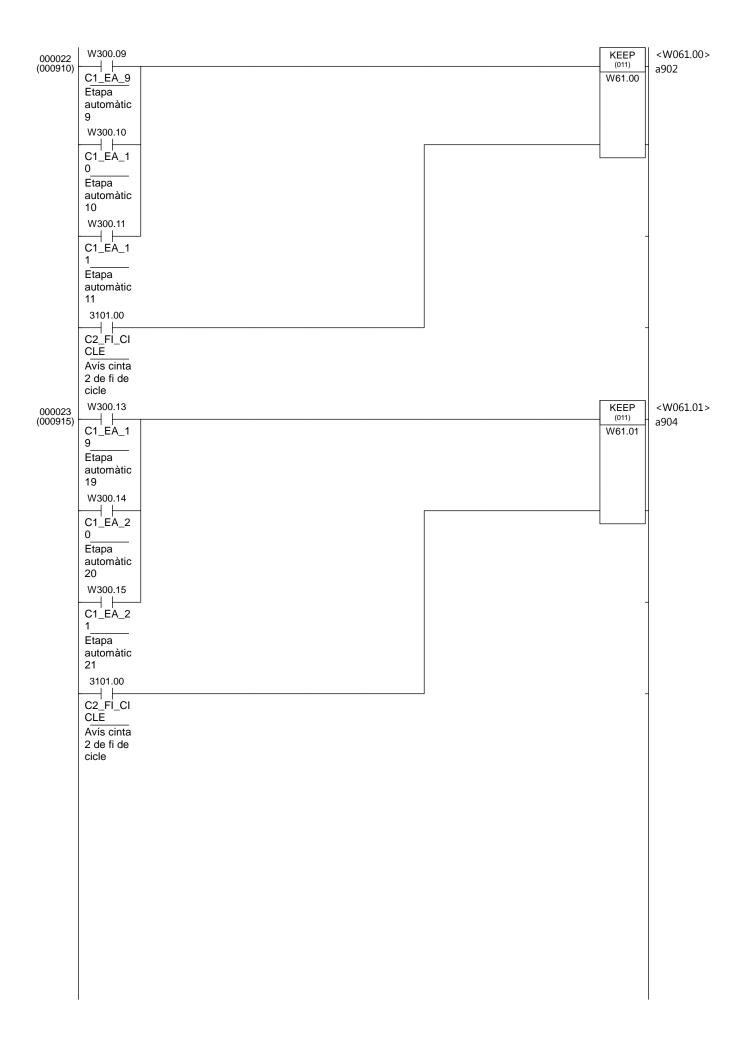


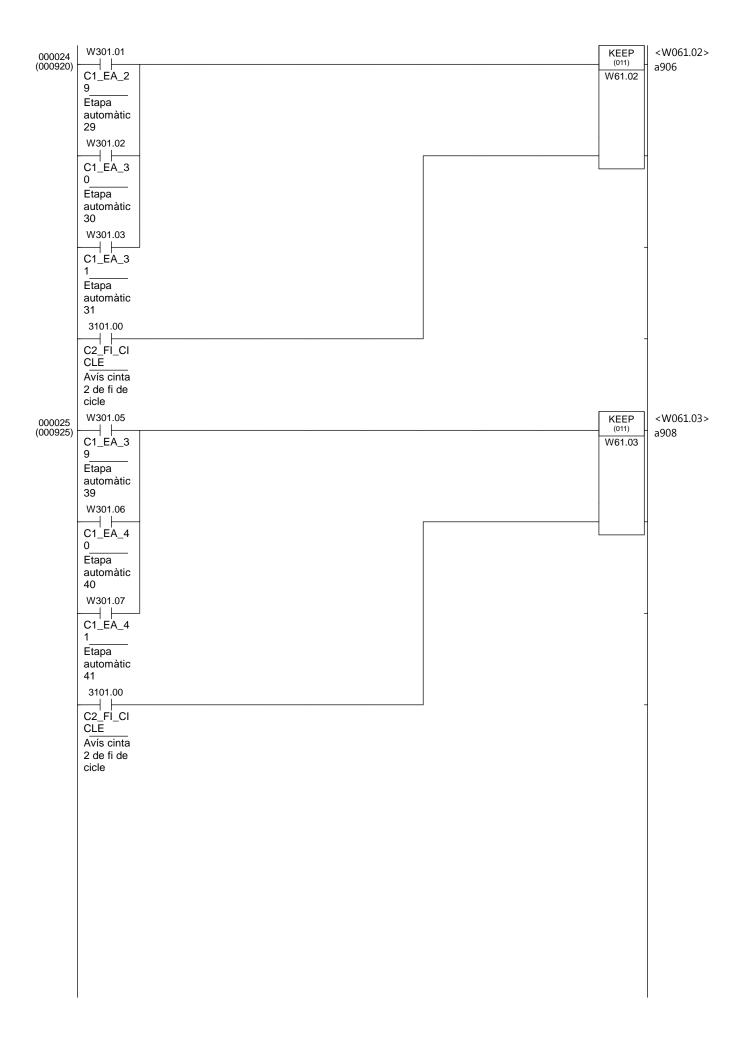


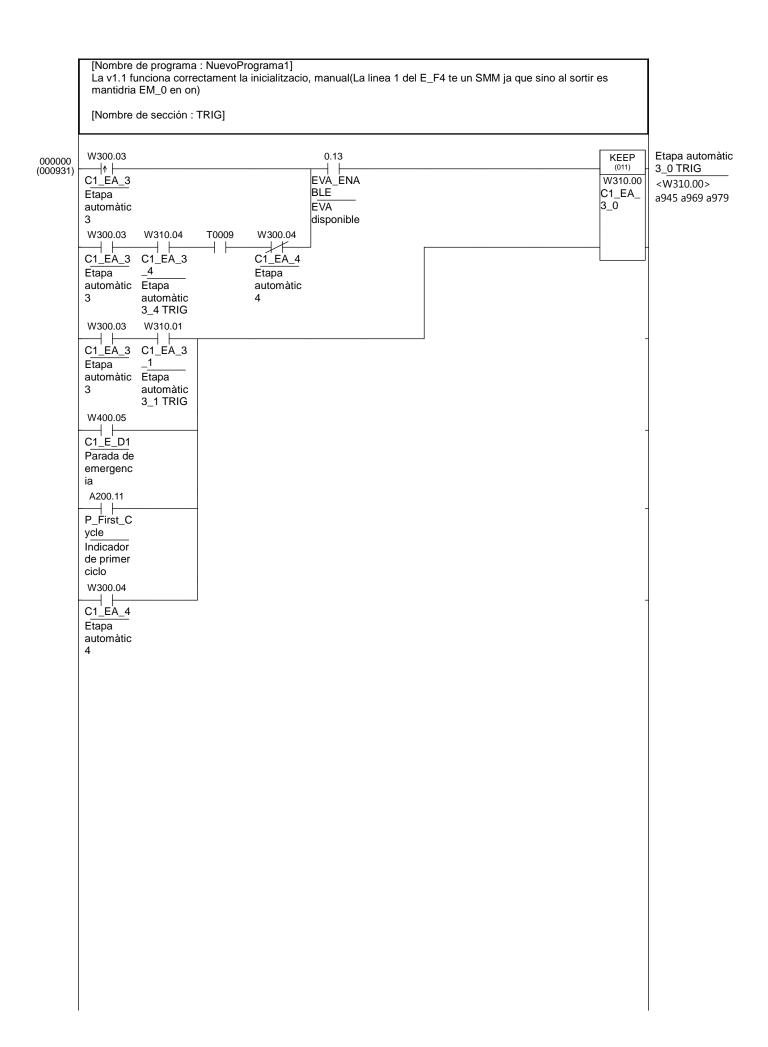


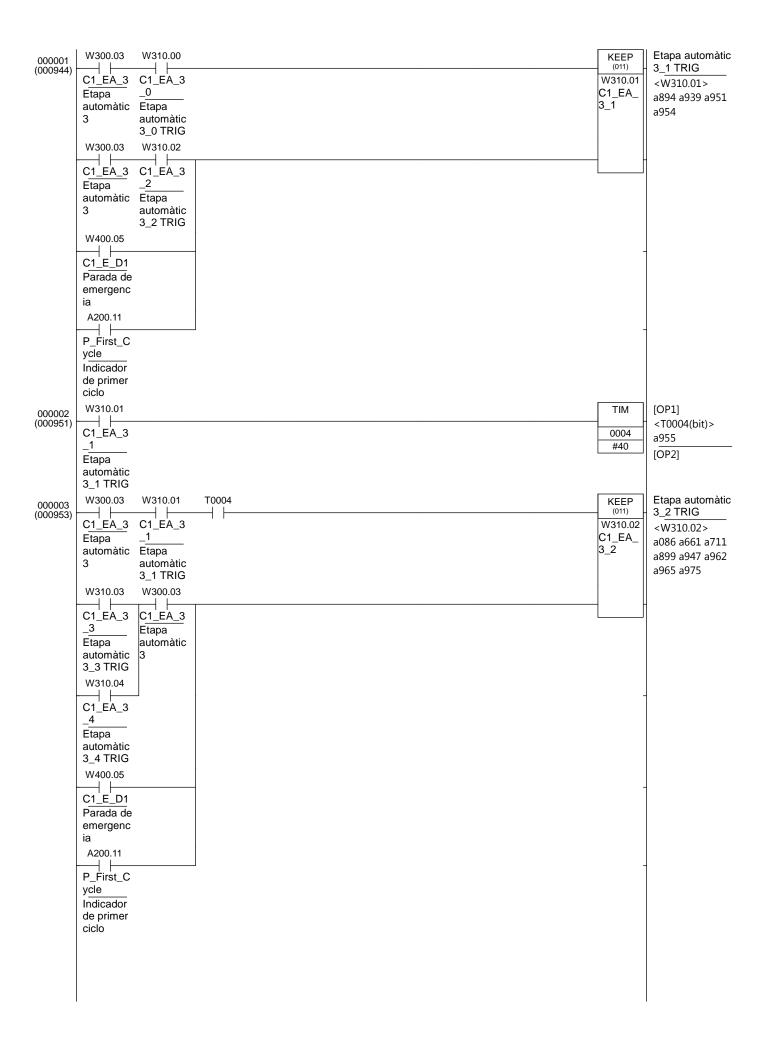


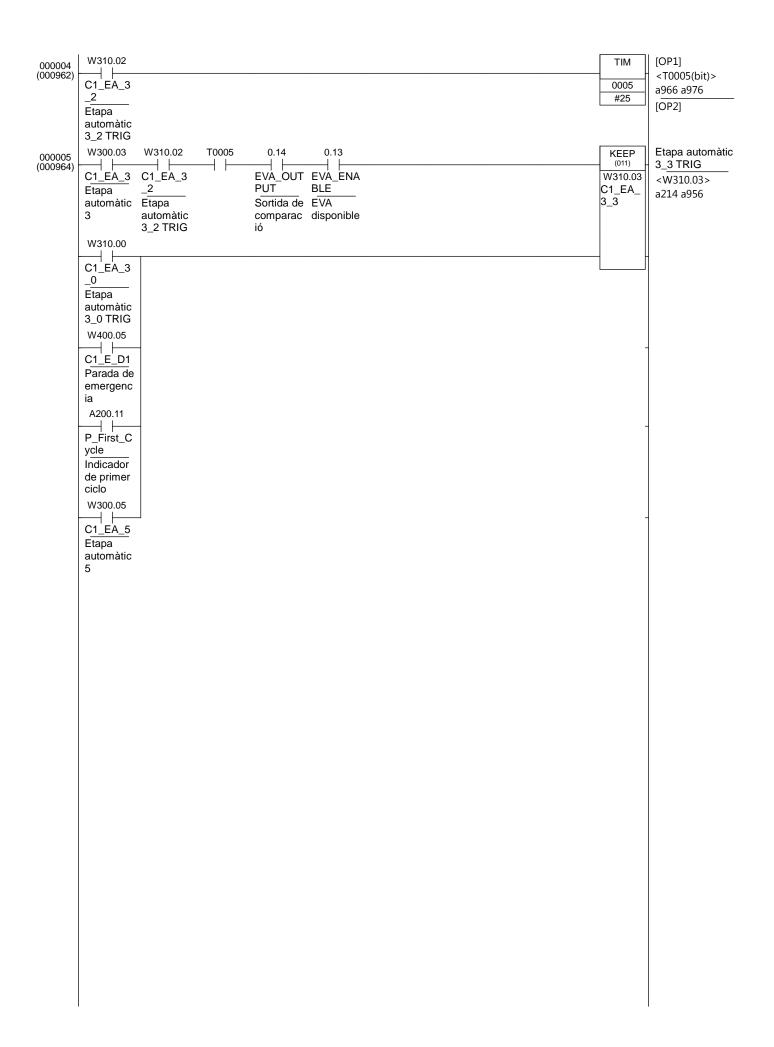


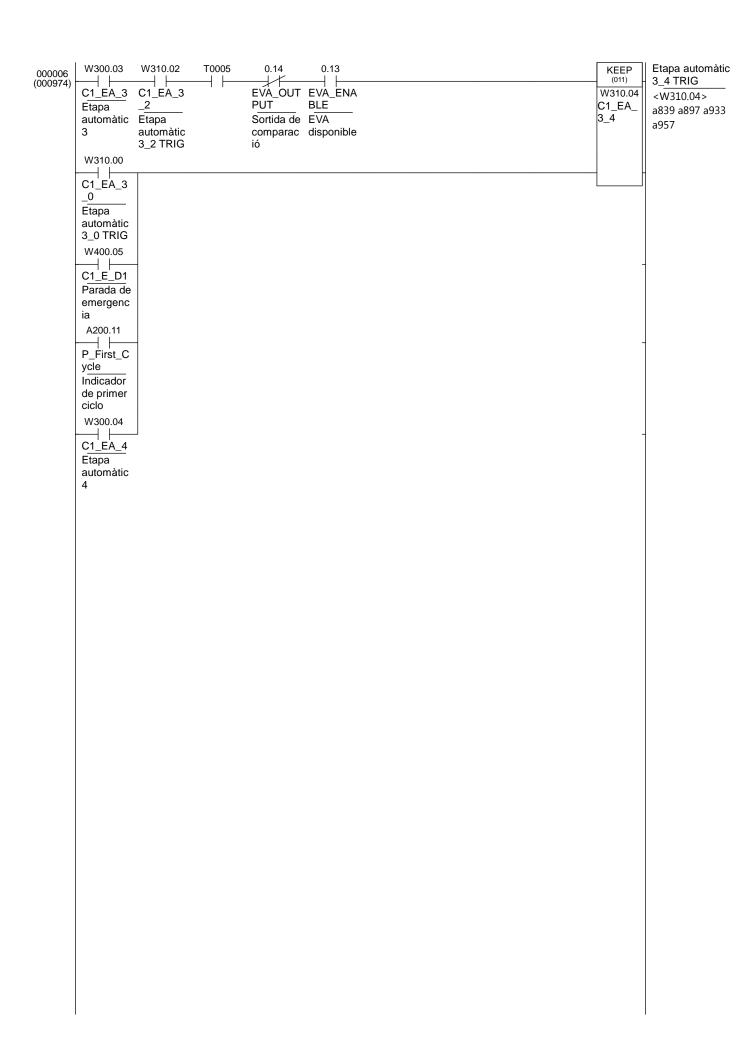




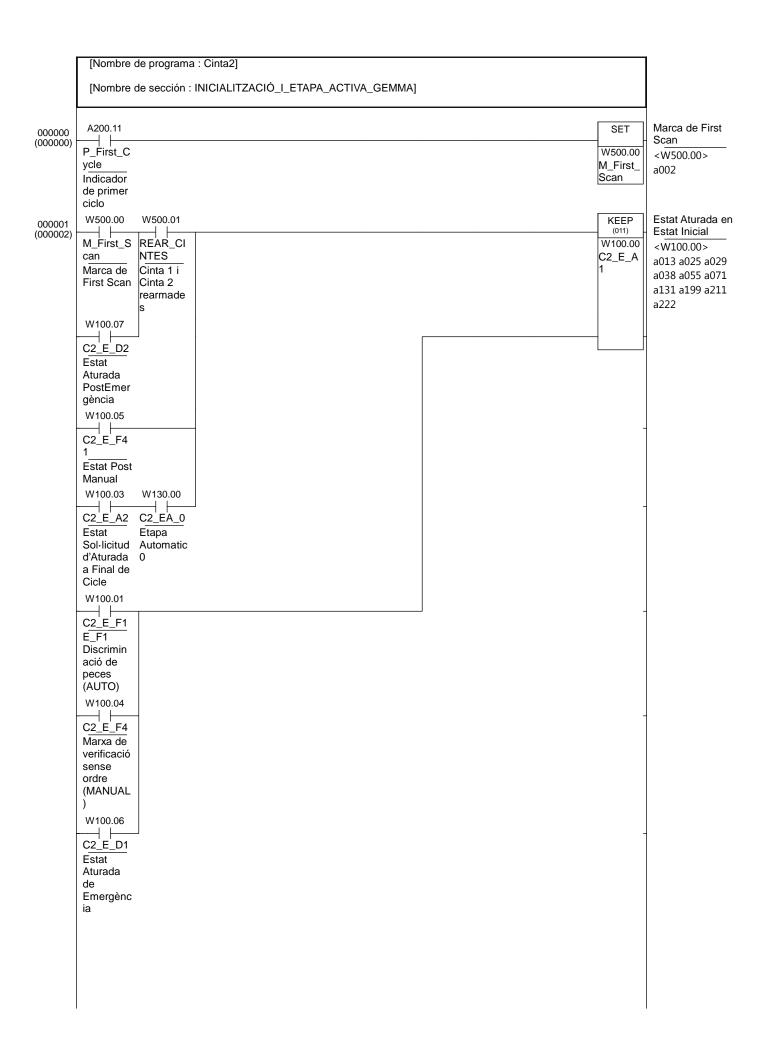


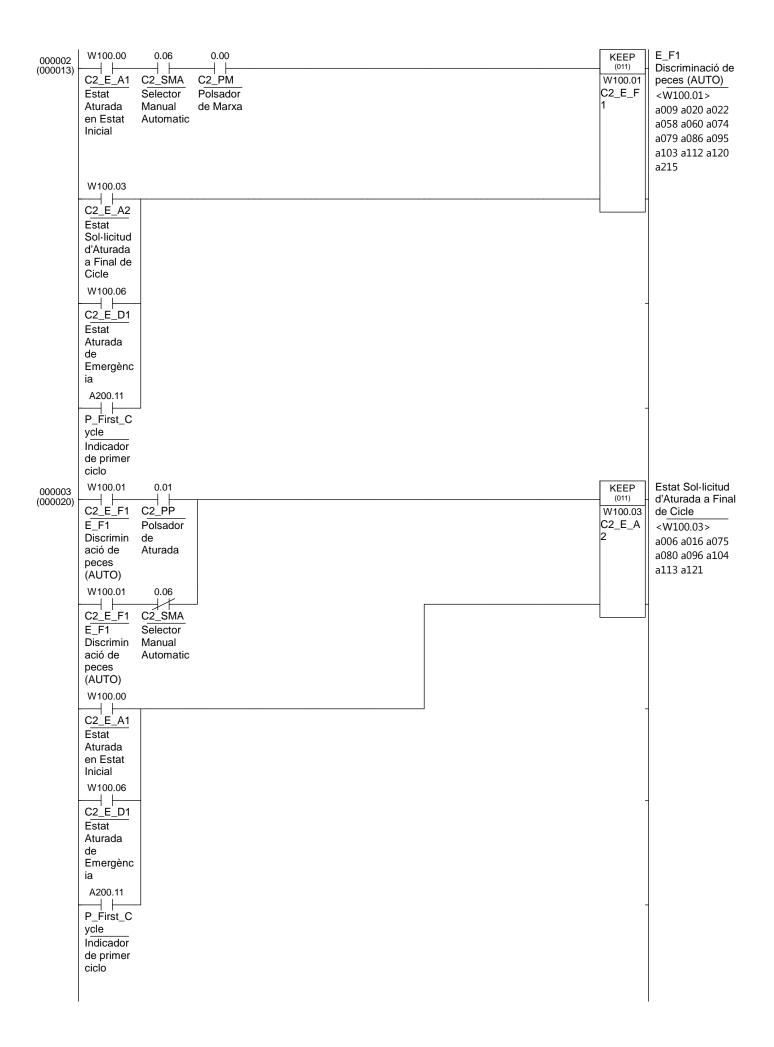


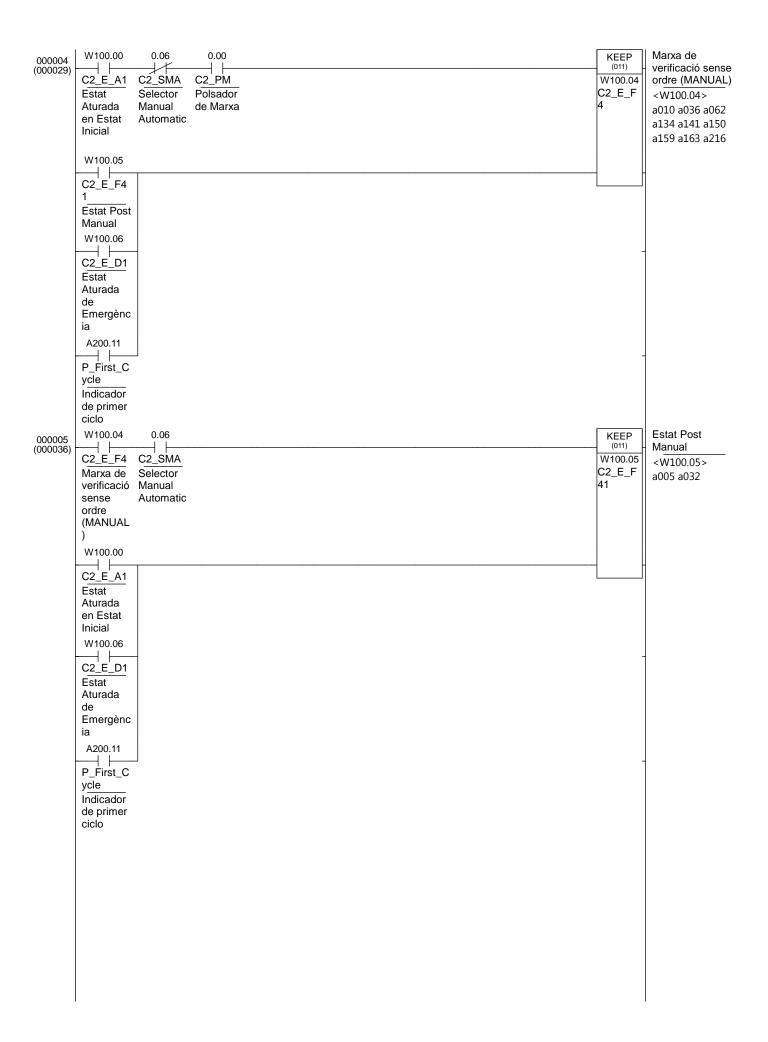


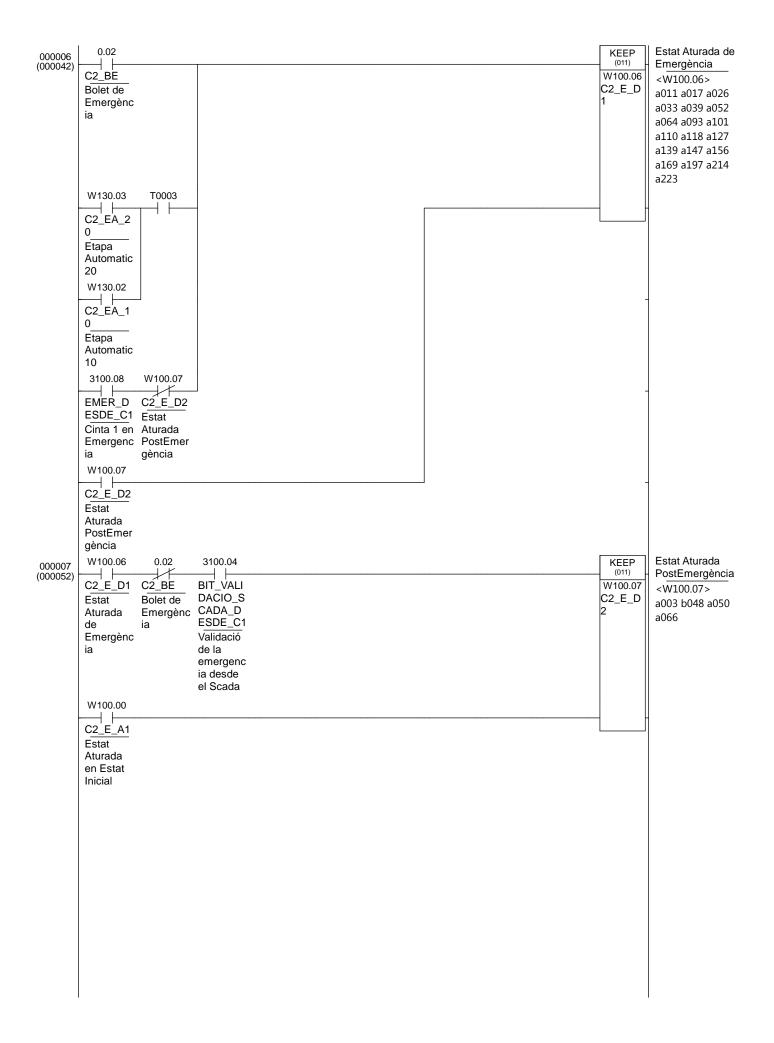


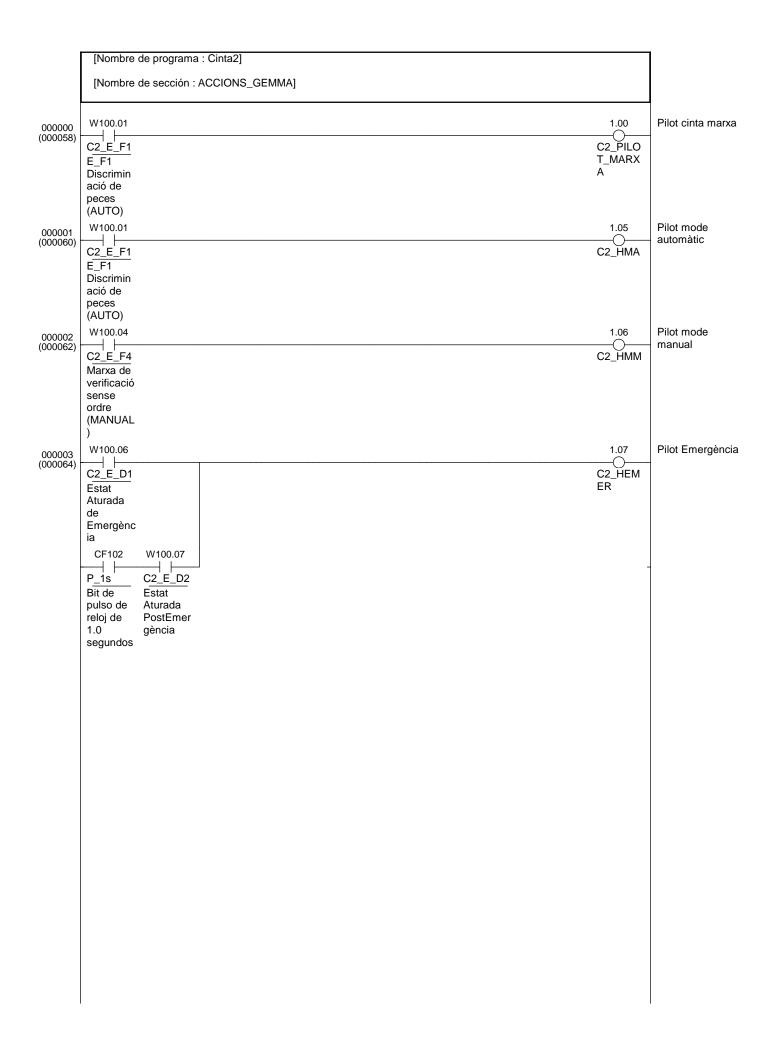
## PROGRAMA CINTA 2

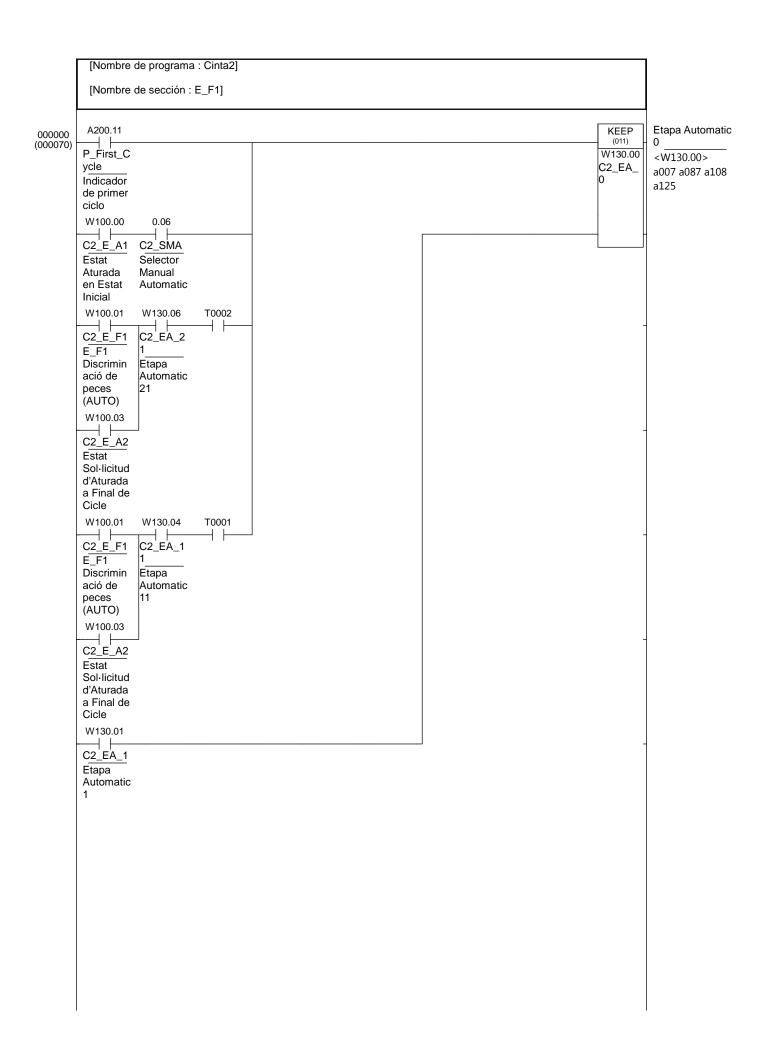


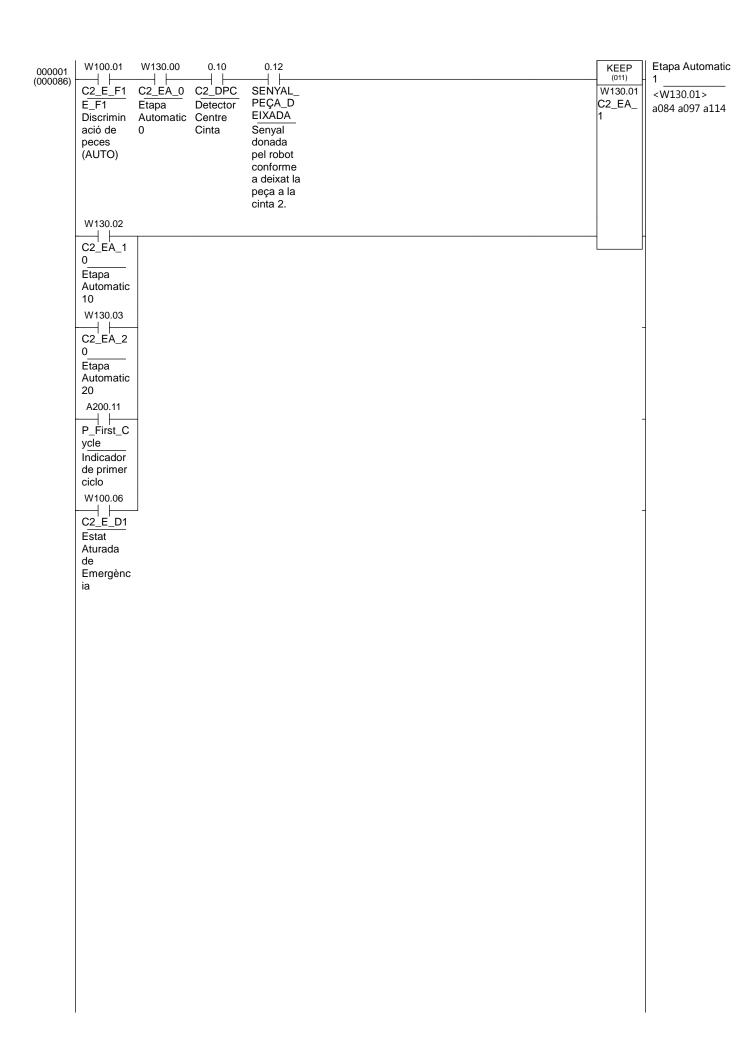


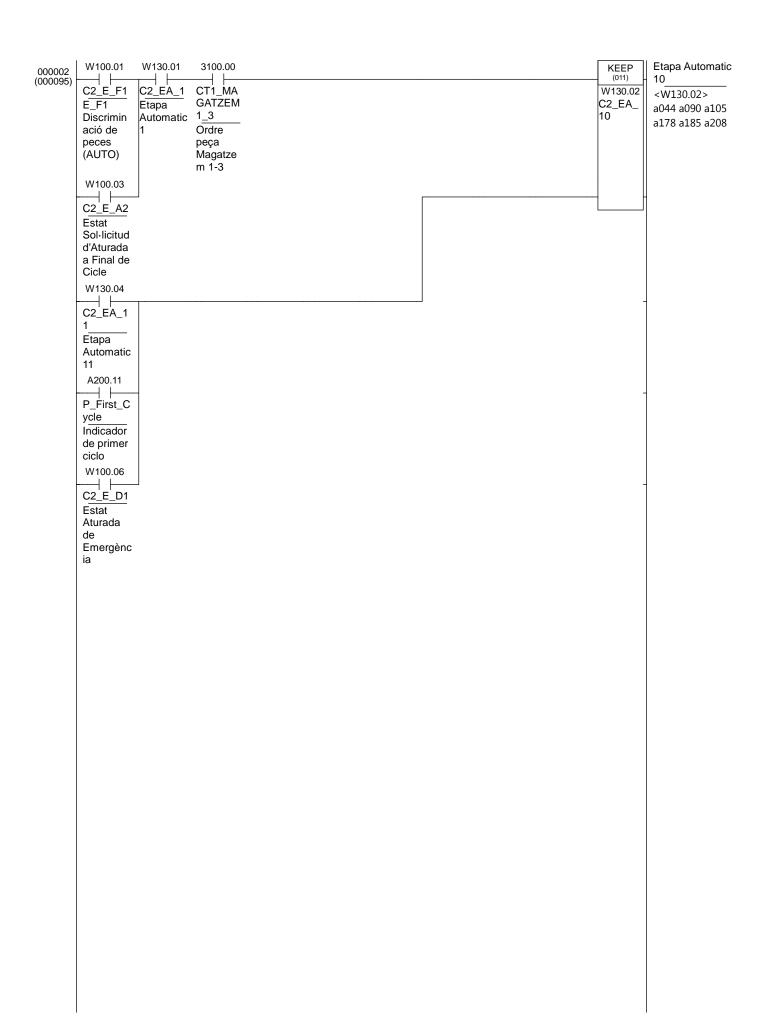


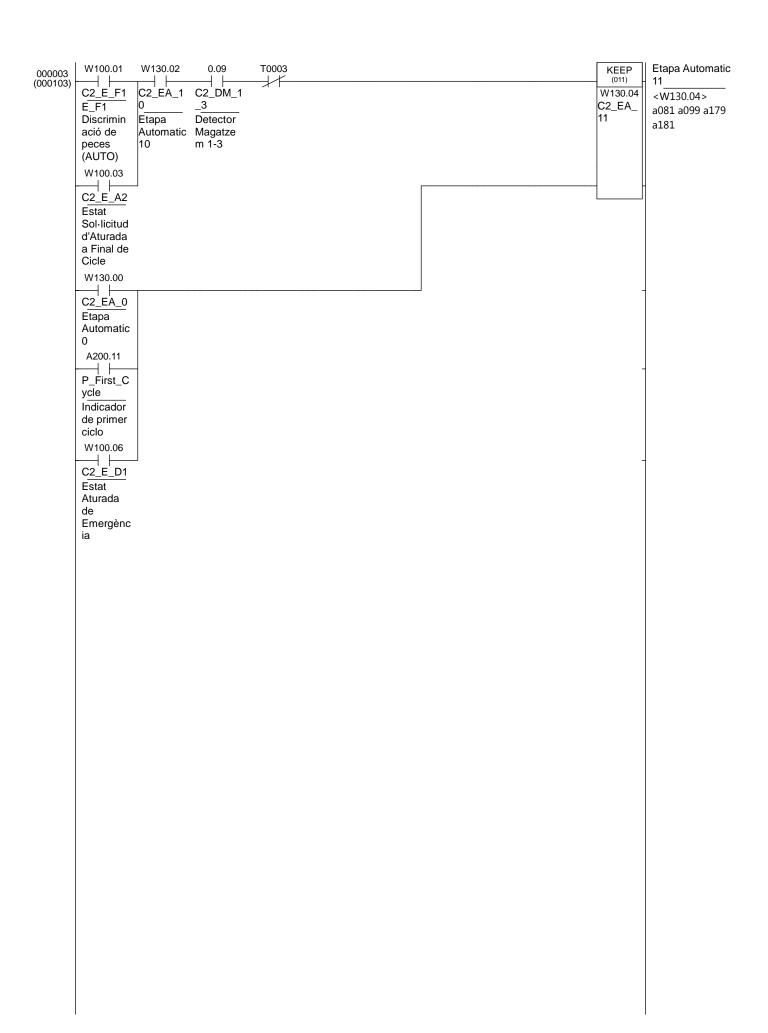


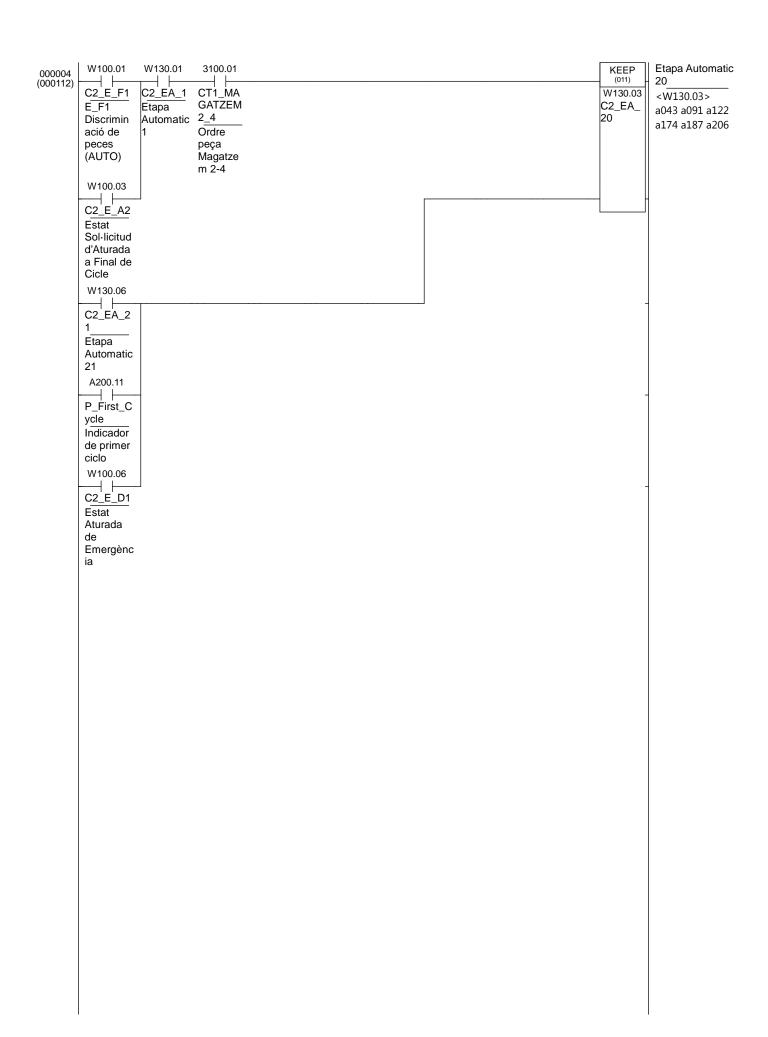


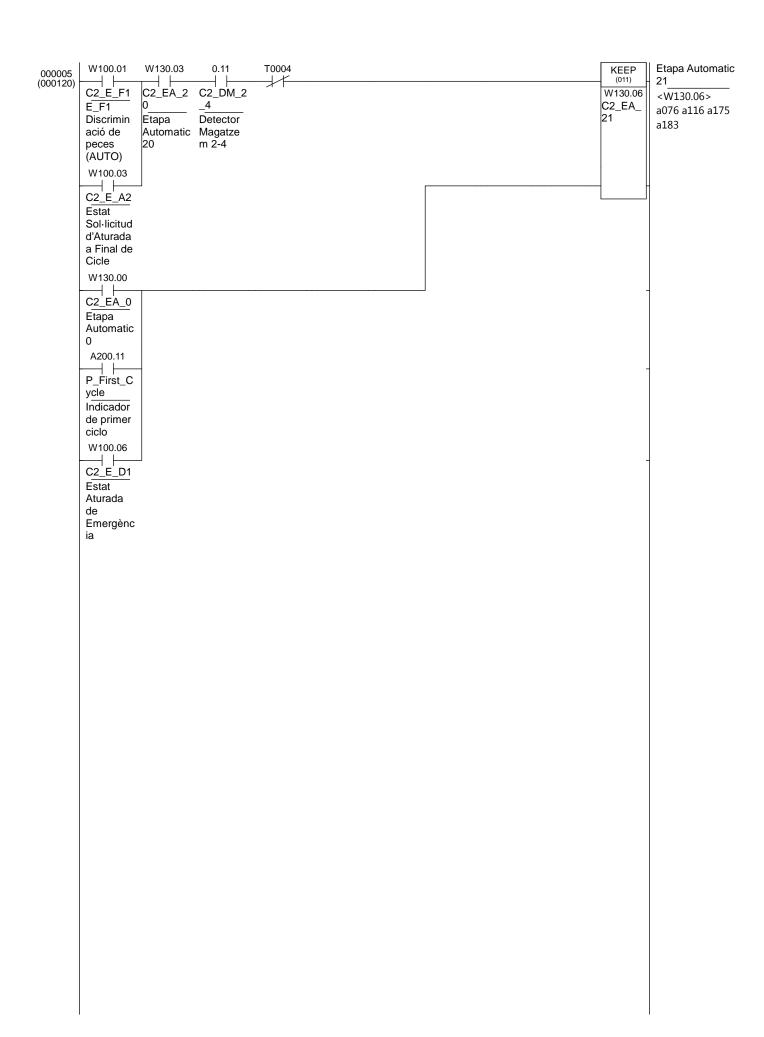


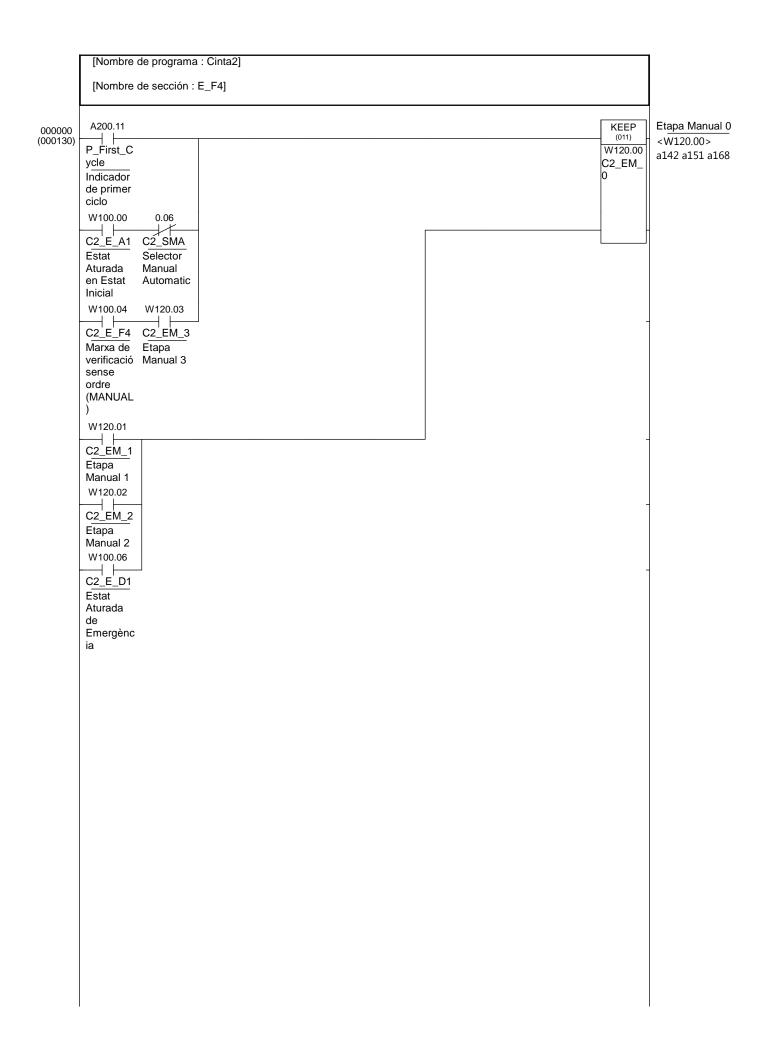


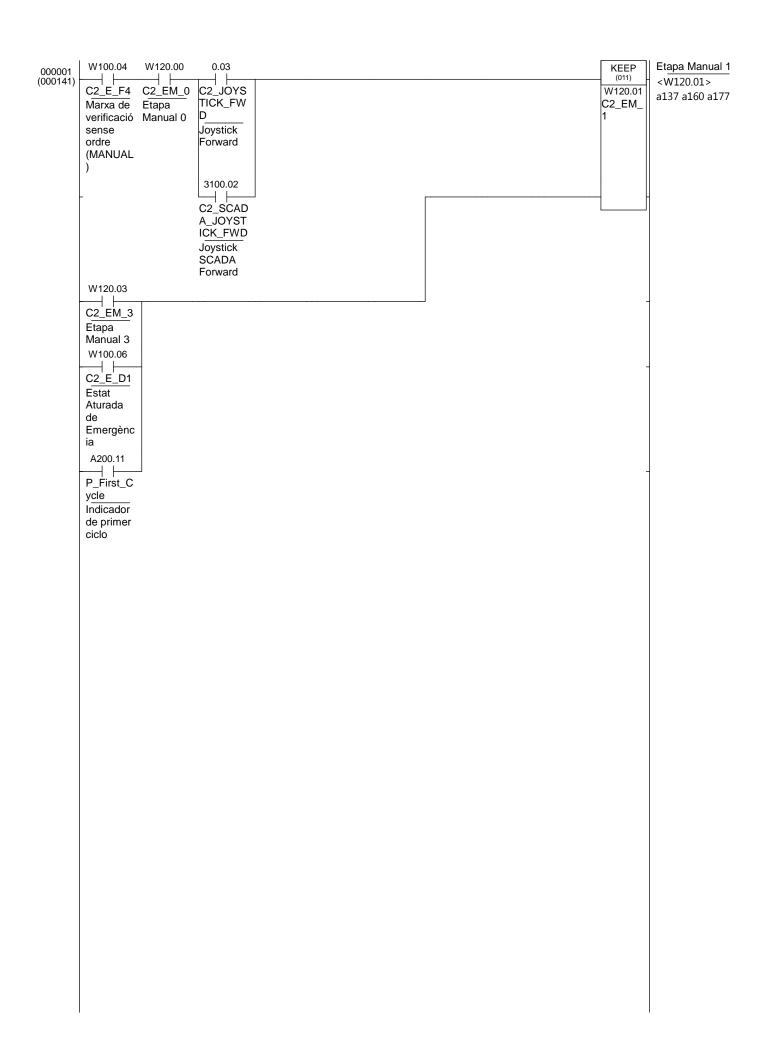


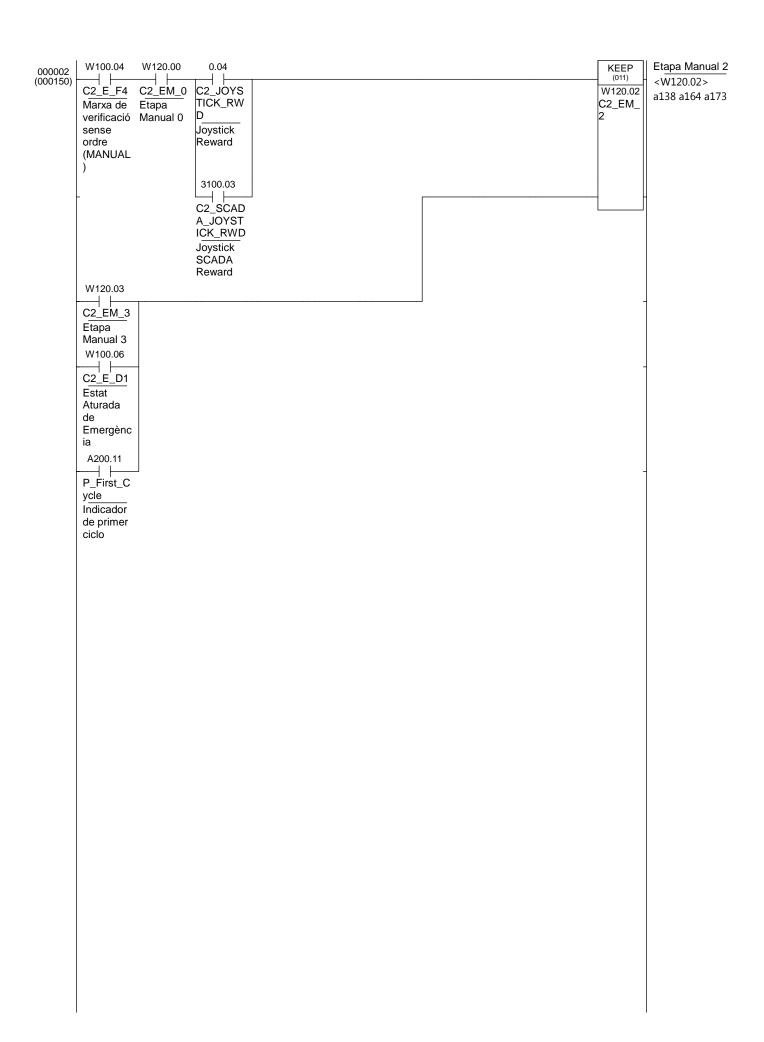


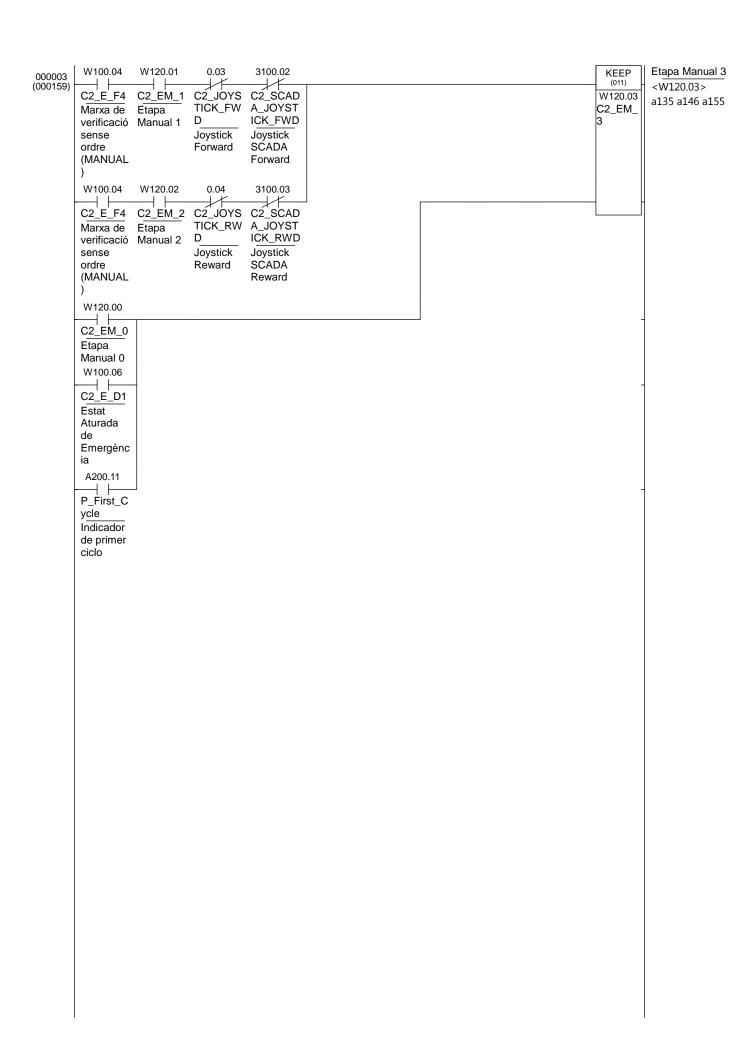


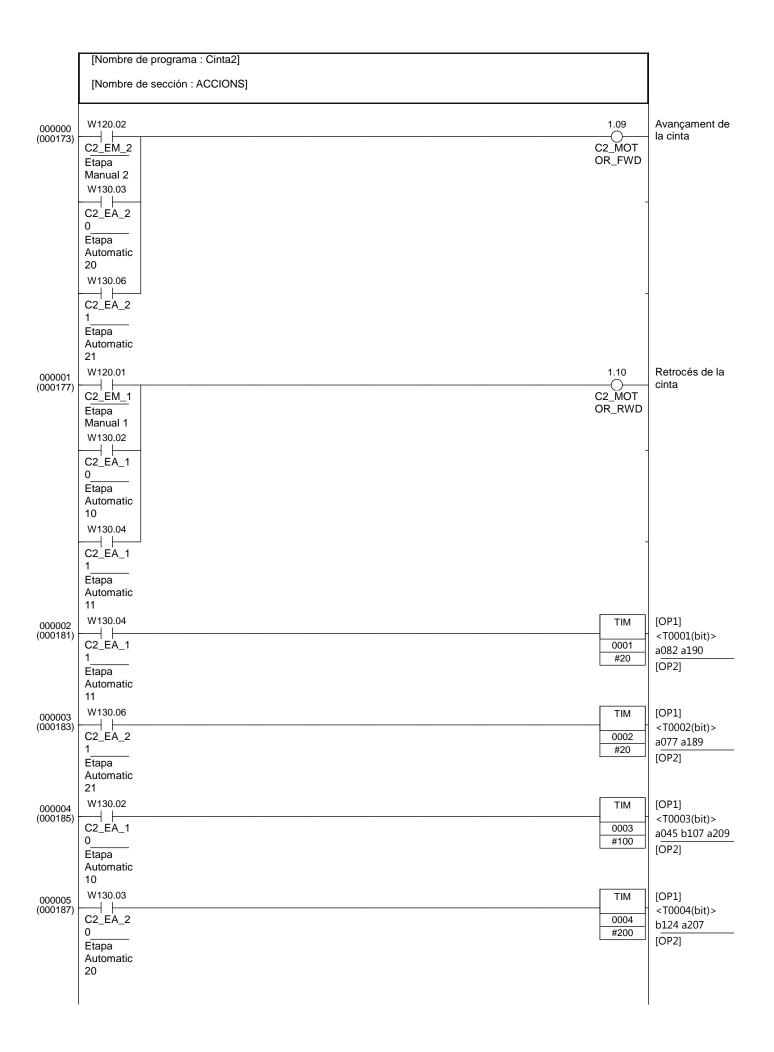


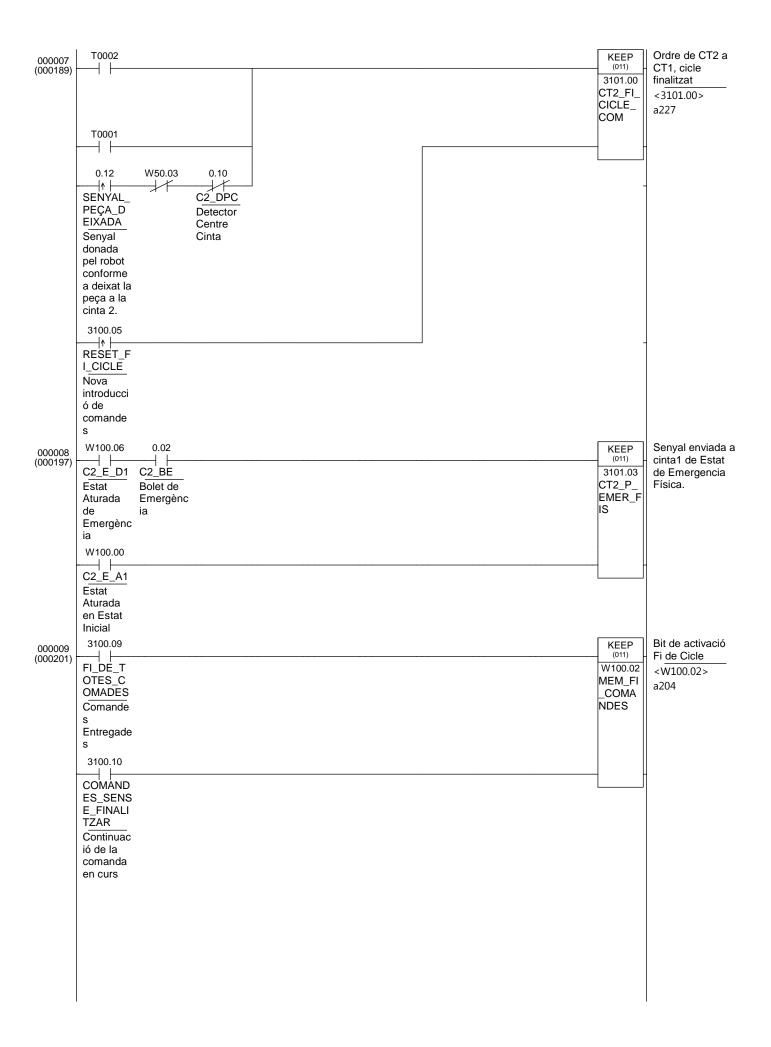


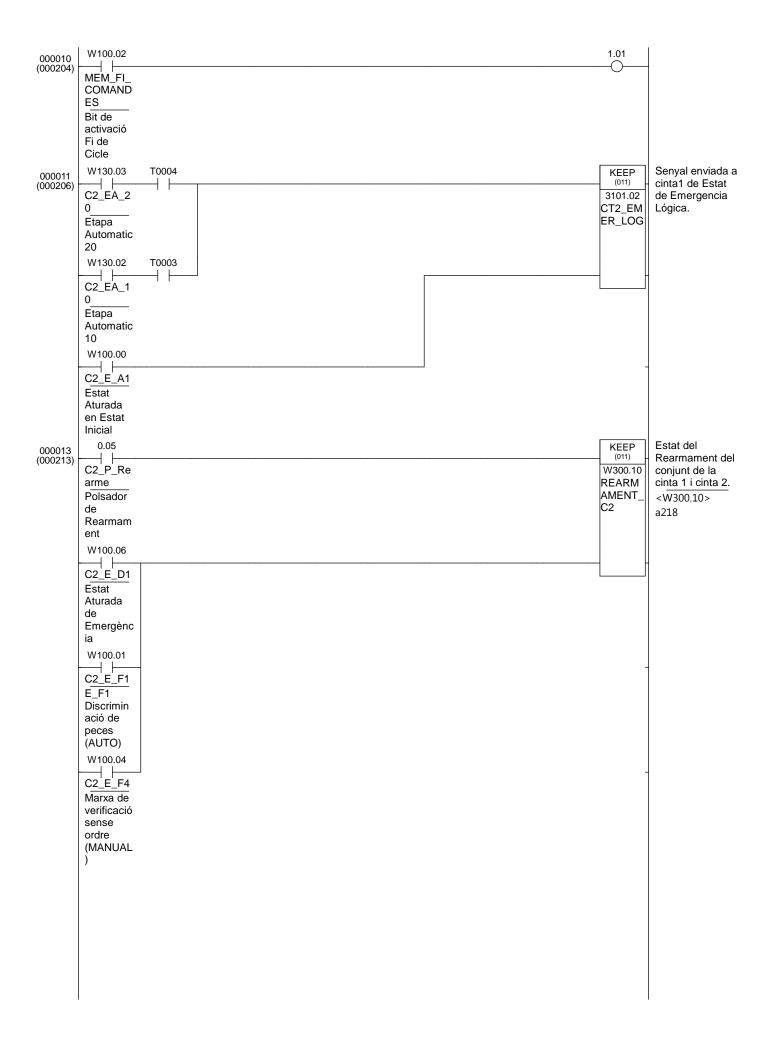


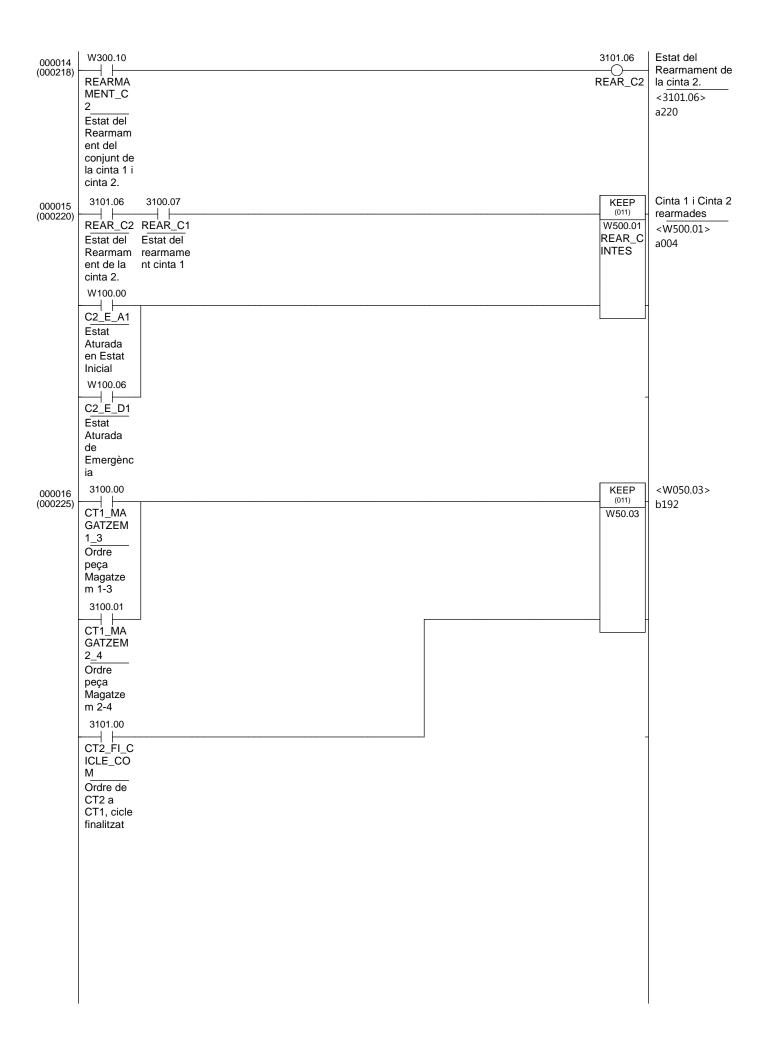












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## PROGRAMA ROBOT

```
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+09,9E+09,9E+09,9E+09,9E+09,9E+09]];
       CONST robtarget p10:=[[176.81,-191.57,521.21],
[0.278921,-0.372832,-0.862871,-0.196606],[-1,0,-1,0],[9E+09,9E+09,9E+09,9E+09,9E+09,9E
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      CONST robtarget p20:=[[36.45,-363.29,434.61],[0.151188,-0.68875,-0.66446,-0.247506],
[-1,0,-1,1],[9E+09,9E+09,9E+09,9E+09,9E+09,9E+09]];
       CONST robtarget p30:=[[362.93,-190.78,527.78],
[0.208623,-0.296741,-0.924245,-0.119128],[-1,0,-1,1],[9E+09,9E+09,9E+09,9E+09,9E+09,9E
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       CONST robtarget p40:=[[403.50,-186.18,39.16],[0.220229,-0.193089,-0.950068,-0.107642],
[-1,-1,0,1],[9E+09,9E+09,9E+09,9E+09,9E+09,9E+09]];
       CONST robtarget p50:=[[405.19,32.89,41.83],[0.208965,-0.192578,-0.952954,-0.105477],
[0,0,0,1],[9E+09,9E+09,9E+09,9E+09,9E+09]];
       CONST robtarget p60:=[[405.02,28.65,286.65],[0.210569,-0.192705,-0.952533,-0.105863],
[0,0,-1,1],[9E+09,9E+09,9E+09,9E+09,9E+09,9E+09]];
       CONST robtarget p70:=[[408.73,-186.25,320.05],[0.21057,-0.192707,-0.952533,-0.105858],
[-1,-1,0,1],[9E+09,9E+09,9E+09,9E+09,9E+09,9E+09]];
       CONST robtarget p80:=[[182.80,243.44,681.59],[0.239987,0.420452,-0.872058,0.0716986],
[0,0,-1,0],[9E+09,9E+09,9E+09,9E+09,9E+09]];
       CONST robtanget p90:=[[368.87,430.69,441.60],[0.26668,0.358729,-0.89307,0.0511997],
[0,0,-1,1],[9E+09,9E+09,9E+09,9E+09,9E+09,9E+09]];
       CONST robtarget p100:=[[368.87,430.69,461.60],[0.26668,0.358729,-0.89307,0.0511997],
[0,0,-1,1],[9E+09,9E+09,9E+09,9E+09,9E+09,9E+09]];
       CONST robtarget p110:=[[368.76,498.78,442.48],
[0.292218, 0.277507, -0.91517, -0.00789908], [0, -2, 1, 0], [9E+09, 9E+09, 9E
       CONST robtarget p120:=[[349.63,498.54,515.95],[0.262768,0.480674,-0.835673,0.0394526],
[0,0,-1,0],[9E+09,9E+09,9E+09,9E+09,9E+09,9E+09]];
       CONST robtarget p130:=[[449.31,236.18,510.99],[0.369937,0.152754,-0.914397,0.0607572],
[0,-1,0,0],[9E+09,9E+09,9E+09,9E+09,9E+09,9E+09]];
       CONST robtarget p140:=[[36.47,-365.92,423.85],[0.138204,-0.694353,-0.66549,-0.236425],
[-1,0,-1,1],[9E+09,9E+09,9E+09,9E+09,9E+09]];
       CONST robtarget p150:=[[36.44,-365.93,533.78],
[0.138198,-0.694384,-0.665464,-0.236409],[-1,0,-1,1],[9E+09,9E+09,9E+09,9E+09,9E+09,9E
+09]];
       CONST robtarget p160:=[[368.06,437.14,466.02],
[0.259765,0.287212,-0.921438,-0.0313713],[0,-2,1,0],[9E+09,9E+09,9E+09,9E+09,9E+09,9E
+09]];
       LOCAL VAR num Fila_COM1:=0;
       LOCAL VAR num Columna COM1:=0;
       LOCAL VAR num Fila COM2:=0;
       LOCAL VAR num Columna COM2:=0;
       LOCAL VAR bool COM:=False;
       PROC COMANDA(num Columna,num Fila,bool COM)
              FOR Files FROM 0 TO Fila DO
                     FOR Columnes FROM 0 TO Columna DO
```

```
IF COM=TRUE THEN
                    MoveJ Offs(p50,(Fila*37.5),(Columna*37.5),0),v1000,fine,tool_ventosa;
               ELSEIF COM=FALSE THEN
                    MoveJ Offs(p40,(Fila*37.5),(Columna*37.5),0),v1000,fine,tool_ventosa;
               ENDIF
            ENDFOR
        ENDFOR
    ENDPROC
    PROC main()
        !Reset D010_3;
        SetDO D010_1,1;
        !Activar el compressor
        SetDO D010_4,1;
        !Robot Operatiu Cadena de Rearmament
        !POSICIO DE INICI
       MoveAbsJ jpos10\NoEOffs,v1000,z50,tool_ventosa;
        IF Emer=TRUE AND Peça=TRUE THEN
           MoveJ p30,v500,z0,tool_ventosa;
           MoveJ p70, v500, z0, tool_ventosa;
           MoveJ p50,v500,z0,tool_ventosa;
            Emer:=FALSE;
            ENDIF
       !Espera ordre de final de
cicle-----
       WaitDI DI10 1,1;
        IF DI10_4=1 THEN
            Fila COM1:=0;
            Columna_COM1:=0;
           Fila_COM2:=0;
           Columna_COM2:=0;
        !POSICIO DE LA CINTA 1 ON ESTA LA PEÇA
        MoveJ p10,v500,z0,tool_ventosa;
       MoveJ p20, v500, z0, tool ventosa;
       WaitRob \ZeroSpeed;
       SetD0 D010_2,1;
```

```
Reset D010_3;
MoveJ p140, v500, z0, tool_ventosa;
MoveJ p150,v500,fine,tool_ventosa;
Peça:=TRUE;
!Ordre al robot enviar peça a la Comanda
IF DI10_2=0 AND DI10_3=0 AND Peça THEN
    COM:=False;
    IF Columna COM1>4 THEN
        Add Fila_COM1,1;
        Columna_COM1:=0;
    ENDIF
    IF Fila_COM1>4 THEN
        Fila_COM1:=0;
    ENDIF
    MoveJ p30,v500,z0,tool_ventosa;
    MoveJ p70, v500, z0, tool_ventosa;
    !POSICIO DE LA COMANDA 1
    COMANDA Columna_COM1,Fila_COM1,COM;
    Add Columna_COM1,1;
    Reset D010_2;
    SetD0 D010_3,1;
    Peça:=False;
ENDIF
!Ordre al robot enviar peça a la Comanda
IF DI10_2=0 AND DI10_3=1 AND Peça THEN
    COM:=True;
    IF Columna_COM2>4 THEN
        Add Fila COM2,1;
        Columna_COM2:=0;
    ENDIF
    IF Fila_COM2>4 THEN
        Fila_COM2:=0;
    ENDIF
    MoveJ p30,v500,z0,tool_ventosa;
    MoveJ p60,v500,z0,tool_ventosa;
    !POSICIO DE LA COMANDA 2
    COMANDA Columna COM2, Fila COM2, COM;
   Add Columna_COM2,1;
```

```
Reset DO10_2;
           SetDO D010_3,1;
           Peça:=False;
       ENDIF
       !Ordre al robot enviar peça a la cinta 2 a la primera
posició-----
       IF DI10_2=1 AND DI10_3=0 AND Peça THEN
           !10
           !POSICIO DEL MAGATZEM 1-2
           MoveJ p10, v500, z0, tool ventosa;
           MoveAbsJ jpos10\NoEOffs,v1000,z50,tool_ventosa;
           MoveJ p100, v500, z0, tool_ventosa;
           MoveL p90, v500, z0, tool_ventosa;
           WaitRob \ZeroSpeed;
           Reset D010_2;
           MoveL p100,v500,z0,tool_ventosa;
           MoveAbsJ jpos10\NoEOffs,v1000,z50,tool_ventosa;
           SetDO D010_3,1;
           Peça:=False;
       ENDIF
       !Ordre al robot enviar peça a la cinta 2 a la segona
       IF DI10_2=1 AND DI10_3=1 AND Peça THEN
           !11
           !POSICIO DEL MAGATZEM 3-4
           MoveJ p10, v500, z0, tool_ventosa;
           MoveJ p130, v500, z0, tool_ventosa;
           MoveJ p120, v500, z0, tool ventosa;
           MoveJ p110,v500,z0,tool_ventosa;
           WaitRob \ZeroSpeed;
           Reset D010 2;
           SetDO D010_3,1;
           Peça:=False;
       ENDIF
```

ENDPROC ENDMODULE

```
MODULE user(SYSMODULE)
    ! Predefined user data
    |***************
    ! Declaration of numeric registers reg1...reg5
    VAR num reg1:=0;
    VAR num reg2:=0;
    VAR num reg3:=0;
    VAR num reg4:=0;
    VAR num reg5:=0;
    ! Declaration of stopwatch clock1
    VAR clock clock1;
    PERS tooldata tool_ventosa:=[TRUE,[[70.7878,-1.16069,37.7741],
 [0.490629, -0.0314185, 0.869022, 0.0556497]], [0.2, [-20, 0, 30], [1, 0, 0, 0], 0, 0, 0]]; \\
    VAR bool Peça:=False;
    VAR bool Emer:=False;
    ! Template for declaration of workobject wobj1
    !TASK PERS wobjdata wobj1 := [FALSE, TRUE, "", [[0, 0, 0],[1, 0, 0, 0]],[[0, 0, 0],[1, 0, 0, 0]]
0, 0, 0]]];
    PROC Emergencia()
        Reset DO10_4;
        IF Peça=TRUE THEN
            SetDO D010_1,1;
            !Activar el compressor
            !SetDO D010_2,1;
            !Activar la ventosa
            ExitCycle;
            Emer:=TRUE;
        ENDIF
    ENDPROC
```

**ENDMODULE**