

```

01  lea bx, datcw
02  mov si, 0
03  mov cx, 0 ;step counter
04  nextStep:
05  spinWait:
06      in al, 7 ; motor sets hi bit when it's ready
07          test al, 10000000b
08          jz spinWait
09  mov al, [bx][si]
10  out 7, al
11  inc si
12  cmp si, 4
13  jb nextStep
14  mov si, 0
15  inc cx
16  cmp cx, dir_change
17  jb nextStep
18  mov cx, 0
19  add bx, 4
20  cmp bx, offset datccw
21  jbe nextStep
22  lea bx, datcw
23  jmp nextStep
24  ret
25  ; half-step rotation: 1/32 = 11.25
26  datcw  db 0000_0110b, 0000_0100b, 0000_0011b, 0000_0010b
27  datccw  db 0000_0011b, 0000_0001b, 0000_0110b, 0000_0010b
28  dir_change = 8h ; x 4 x 11.25 degrees
29  END

```

