```
070A  F8  LDI      ;Set R3 = address refer sub @ 0901
  0B  09           ;    "              "              "
  0C  B3  PHI  R3  ;    "              "              "
  0D  F8  LDI      ;    "              "              "
  0E  01           ;    "              "              "
  0F  A3  PLO  R3  ;    "              "              "

0710  D3  SEP  R3 ;Do MLS -- set RA.0 = board address per VA VB
  11  F8  LDI
  12  01
  13  5A  STR  RA ;Store an 01 white piece @ VA VB (piece moving)
  14  86  GLO  R6 ;D=R6.0 which is = FA from refer sub (VA)
  15  A7  PLO  R7 ;R7.0=R6.0
  16  17  INC  R7 ;R7 now points to Chip-8 VB
  17  06  LDN  R6 ;D=M(R(6))  Get value of VA
  18  BD  PHI  RD ;Put in RD.1 to save original VA
  19  07  LDN  R7 ;D=M(R(7))  Get value of VB
  1A  AD  PLO  RD ;Put in RD.0 to save original VB
  1B  F8  LDI      ;Set RF.0 = FF = cycle index #2 (VY)
  1C  FF           ;    "              "              "
  1D  AF  PLO  RF  ;    "              "              "
  1E  F8  LDI      ;Set RE.0 = FF = cycle index #1 (VX)
  1F  FF           ;    "              "              "

0720  AE  PLO  RE  ;    "              "              "
  21  F8  LDI      ;Set R3.0 = address search sub
  22  24
  23  A3  PLO  R3
  24  D3  SEP  R3 ;Do MLS -- add indexes to VA VB and set "I" to
  25  0A  LDN  RA ;Get piece @ M(R(A))                board square
  26  FB  XRI      ;Test if = 01 white
  27  01
  28  32  BZ       ;If so, done search, branch to 0740 to change line
  29  40
  2A  0A  LDN  RA ;Get same piece
  2B  FB  XRI      ;Test if = 80 black
  2C  80
  2D  32  BZ       ;If so, branch to 0721 to continue search
  2E  21
  2F  9D  GHI  RD ;Reset VA value

0730  56  STR  R6  ;    @ M(R(6))
  31  8D  GLO  RD ;Reset VB value
  32  57  STR  R7  ;    @ M(R(7))
  33  1E  INC  RE ;Add 01 to RE index #1
  34  8E  GLO  RE
  35  FB  XRI      ;Test if RE.0 = 02 yet
  36  02
  37  3A  BNZ      ;If not, branch to 0721
```