





```

And      DiskStat,*$FF-Wr_Op ;make certain we are reading

RdBik_Apt:   Ld      !r2,*.HIBYTE. RHeader ;initialize gaps
            Ld      !r3,*.LOWBYTE. RHeader
            Call    Load_Header
            Ld      !r0,#0
            Lde     @!!r2,!r0

            Ld      !r2,*.HIBYTE. ( RDummy-1 )
            Ld      !r3,*.LOWBYTE. ( RDummy-1 )
            Lde     @!!r2,!r0
            Incw    !!r2
            Lde     @!!r2,!r0
            Jr      Do_Read

Read_Fast:   Clr     !r9      ;clear booleans
            Ld      !r8,#10 ;RdRetryCnt := 10
            Clr     !rB      ;ErrCnt := 0
            And     DiskStat,*$FF-Wr_Op ;make certain we are reading

            Ld      !r2,*.HIBYTE. ( RHeader+2 ) ;get location of Sector
            Ld      !r3,*.LOWBYTE. ( RHeader+2 )
            Lde     !r0,@!!r2 ;get current Head/Sector value
            And     !r0,$$C0 ;mask out old sector value
            Or      !r0,Sector ;merge in new sector
            Lde     @!!r2,!r0 ;and store it
            Add     !r3,#3 ;get location of Inverse Head/Sector
            Com     !r0
            Lde     @!!r2,!r0 ;and store it, too!

Do_Read:    Call    Rd_Resident      ;go internal to the Z8

            Ld      !r1,!r0      ;CASE Status.State
            And     !r1,$$0F
            Or      !rA,!rA
            Jr      Z,RdBik_NoHdr
            Cp      !r1,#Norm_State
            Jr      Nz,RdBik_AbNorm

RdBik_Norm:  Or      !r9,#RdSuccess

            Ld      !r1,!r0      ;IF ServoErr OR NOT( ServoRdy )
            Tm     !r1,#ServoErr
            Jr      Nz,Rd_ServoErr
            Tm     !r1,#ServoRdy
            Jr      Z,Rd_ServoErr

Rd_ServoOk:  Tm     !r0,#CrcErrL   ;IF Status.CrcErr
            Jr      Z,Rd_BadCrc
            Tm     !r0,#WrtNvidL  ; OR Status.EccErr
            Jr      Z,Rd_BadEcc

Rd_NoCrcErr: Tm     !r9,#RdError   ; THEN IF RdError
            Jr      Nz,RdBik_Bmove

RdBik_Until: Tm     Excpt_Status,#Recovery
            Jr      Z,RdBik_End
            Tm     !r9,#RdError
            Jr      Nz,RdB_Rpt1

RdBik_End:  Ld      RdErrCnt,!rB
            Ld      !r0,!r9 ;send status back to caller
            Ld      RdStat,!r9

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Tcm      !r0,*RdError ;set zero flag if error
Ret

RdB_Rpt1:  Ld      !r2,*.HIBYTE. ZeroHeader
           Ld      !r3,*.LOWBYTE. ZeroHeader
           Call    Bank_Call
           Jp      RdBik_Rpt

RdBik_AbNorm:  Call    Reset_StMach
              Ld      !rA,!rD
              Call    Abort

RdBik_NoHdr:  And     !r9,*$FF-RdSuccess
              Or      !r9,*Error
              Tm     !rB,*Hdr_MisMatch
              Jr     Nz,Rd_HdrErr
              Or      !rB,*Hdr_MisMatch

              Tm     Excpt_Stat,*Recovery ;auto offset ONLY if recovery on
              Jr     Z,RdBik_Until

              Call   ReSeek                ;set auto_offset
              Jr     RdBik_Until

Rd_HdrErr:    Or      !r9,*RdNoHdrFnd + RdError
              Jr     RdBik_End

Rd_ServoErr: Or      !r9,*RdError + RdSrvoErr ; THEN RdError AND RdServoErr
              Jr     RdBik_End

Rd_BadCrc:   Or      !r9,*RdError+RdCrcErr    ; ELSE
              Inc    !rB
              Or      !rB,*CrcStat
              Tm     !rD,*WrtNvldL    ;check for Ecc error too
              Jr     Nz,Rd_B_Crc_1

RD_Bad1:     Or      !rB,*EccStat

              Tm     Excpt_Stat,*Recovery    ;ReSeek only if recovery is on
              Jr     Z,Rd_B_Crc_1

              Tm     DiskStat,*Offset_On ;set auto offset if needed
              Jr     Nz,Rd_B_Crc_1

              Call   ReSeek

Rd_B_Crc_1:  Djnz    !r8,RdBik_Until
              Jr     RdBik_End

Rd_BadEcc:   Or      !r9,*RdError+RdCrcErr
              Inc    !rB
              Jr     Rd_Bad1

RdBik_Bmove: Ld      !r2,*.HIBYTE. RBuf_To_Buf2
              Ld      !r3,*.LOWBYTE. RBuf_To_Buf2
              Call    Bank_Call
              Jr     Rd_B_Crc_1

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.LSTOFF