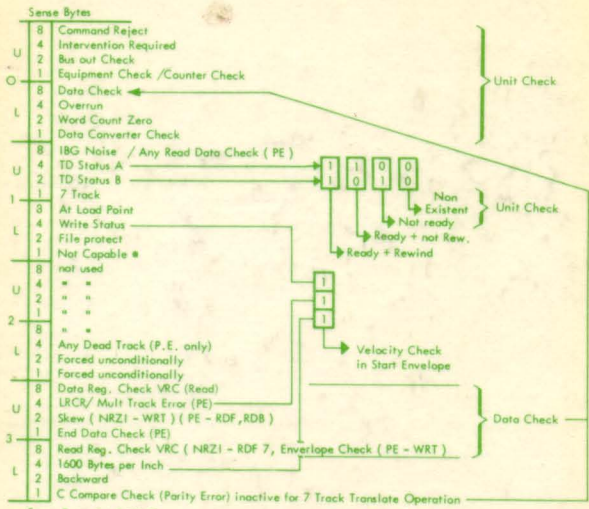




# / 360-20 2415 Tape



Sense Bytes 4 + 5 All Zeros

\* PE Drive attempts to read NRZI Tape and TCU does not have NRZI Feature

**Commands:**

Commands:	Abbreviations
Write	Ø 1   WRT
Read	Ø 2   RDF
Read Bkwd	Ø C   RDB
Sense	Ø 4   SEN

**Control Commands:**

NOP	Ø 3   NOP
Rewind	Ø 7   REW
Rewind Unload	Ø F   RUN
Erase Gap	1 7   ERG
Write IM	1 F   WTM
Bksp. Record	2 7   BSR
Bksp. File	2 F   BSF
Fwd Space Record	3 7   FSR
Fwd Space File	3 F   FSF
Transfer in Channel	Ø 8   TIC

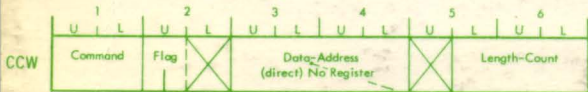
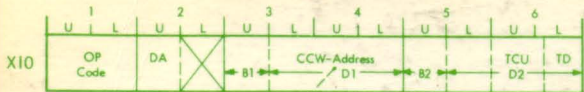
**Unit Status**

U	8	= not used Mod. 20
U	4	= Status Modifier
U	2	= Control Unit End
U	1	= Busy
L	8	= Channel End
L	4	= Device End
L	2	= Unit Check
L	1	= Unit Exception

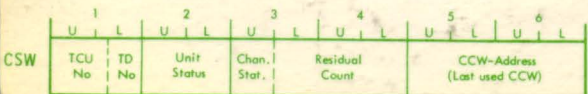
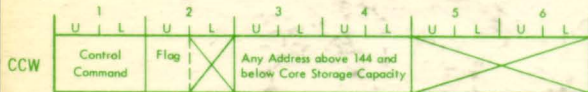
**Channel Status**

U	8	= Channel Data Check
U	4	= Interf. Control Check
U	2	= Incorrect Length.
U	1	= Program Check

Condition Code (Bits 2+3 in PSW) =	0 00	1 01	2 10	3 11
Mask Bits (Bit Value of MT = Bits 8-11 in Branch on Condition)	1000 8	0100 4	0010 2	0001 1
XIO Tape	not used	CSW stored	Special I/O busy	Not operational



Chain- CCW  
 Flag: 8 Bit on = further CCW follows  
 8 Bit off = Last CCW



UNIT STATUS EXPLANATION:

Bit	Designation	When Used
0	Not Used	
1	Status Modifier	See bit 3, busy, description.
2	Control Unit End	1. At completion of an operation during which a TCU busy was indicated. 2. At completion of an operation during which a unit check or unit exception is detected.
3	Busy	1. With status modifier bit 1, a TCU is addressed and the TCU is busy with another command or has status pending for a different TD (short busy). 2. Without status modifier bit 1, a command other than test I/O is recognized and the TCU has status pending for the addressed TD (long busy) or (including test I/O) the addressed TD is rewinding.

4	Channel End	1. A read, read backward, write, or sense command has been completed. 2. A control command has been accepted.
5	Device End	1. TD has completed a command: tape reaches LP during rewind; rewind-unload is completed at TCU level (TD drops ready); command is completed (occurs with channel end for non-control commands). 2. Occurs with channel end and unit check if TD ready drops while performing a command. 3. TD goes from not ready to ready if TCU selected TD while it was not ready, or if TCU initiated the rewind-unload that caused the TD to become not ready.
6	Unit Check	1. Any bit is on in sense byte 0. 2. TD performs read backward, backspace block, or backspace file into or at load point. 3. A rewind-unload is completed at TCU level. 4. A ready drop occurs during tape motion operations. 5. A non-existent TD is addressed during initial selection.
7	Unit Exception	1. A write, WTM, or erase gap operation is performed in the end-of-tape area. 2. A tape mark is detected during read, read backward, forward space block, or backspace block.