# RK05 Disk Drive Maintenance Manual, page 3-1

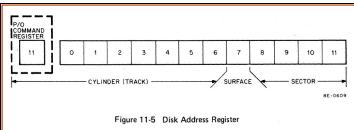
Interface cable connection of the RK05 Disk Drive is made to card position 7 or 8 of the electronic module. These card positions are parallel-wired so that several drives may be daisy-chained in a multi-drive configuration; that is, card position 7 or 8 of the first drive is connected to card position 7 or 8 of the succeeding drive, etc. (By convention, card position 7 is used for input signals; card position 8 is used for output signals.) If there is only one drive in the system, an M930 terminator card must be installed in the unused interface card position; if there is more than one drive in the system, only the last drive on the bus must have the M930 terminator card in the unused interface card position. The interface signal levels are determined by the M930 terminator card. An assertion, or logic 1, is approximately +0.5 Vdc, and a negation, or logic 0, is approximately +3.5 Vdc.

#### page 3-3

#### 3.2.5 Head Select

BUS SEL UPPER HD L transmits a signal that determines which of the two read/write heads is to be selected. The controller places a logical 1 on this line to select the upper head, and a logical 0 to select the lower head. Either signal remains on the line throughout the entire read or write operation.

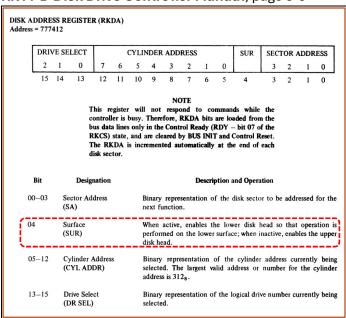
# PDP-8e/f/m Maintenance Manual, volume 3, 2<sup>nd</sup> printing 1973, page 11-7



Based on the schematic, the disk address doesn't have a hardwarebased auto-increment feature.

- SURFACE = 0 (lower head)
- SURFACE = 1 (upper head)

### RK11-D Disk Drive Controller Manual, page 3-8



Based on the schematic, in hardware, the surface and cylinder addresses increment in the sequence:

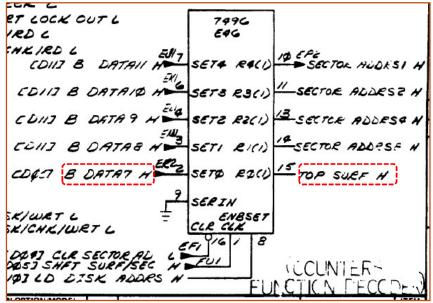
- CYLINDER\_ADDRESS<sub>n</sub>, SUR = 0 (upper head)
- CYLINDER\_ADDRESS<sub>n</sub>, SUR = 1 (lower head)
- CYLINDER\_ADDRESS<sub>n+1</sub>, SUR = 0 (upper head)
- CYLINDER\_ADDRESS<sub>n+1</sub>, SUR = 1 (lower head)

# **RK8-E Head Select Path:**

M7105, sheet 4, receives Omnibus active-low data bit 7 on connector pin BV1



#### M7106, sheet 3



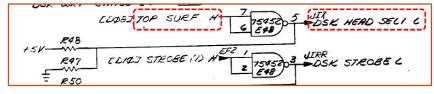
Register output E46 pin 15:

- Low selects lower head
- · High selects upper head

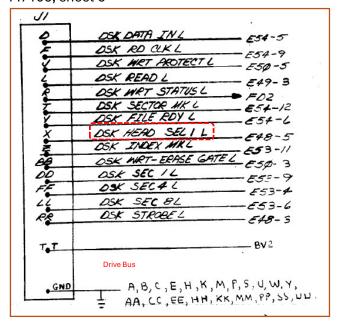
Logic state is the same as the Disk Address Register:

- Low → 0
- High → 1

M7106, sheet 6

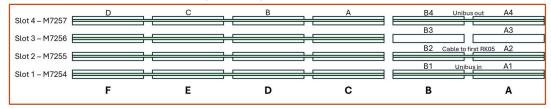


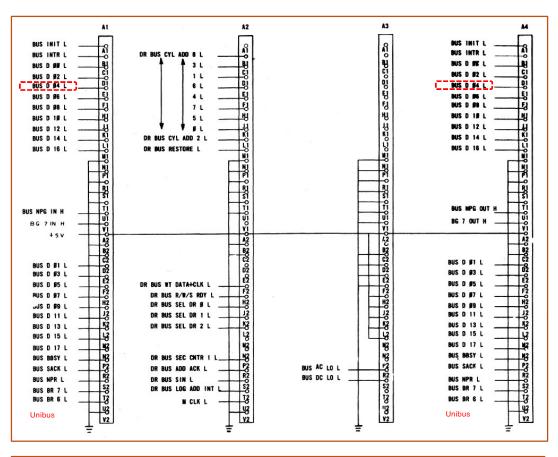
# M7106, sheet 6



# RK11-D Head Select Path: (backplane C, D, E, F is plug-in board A, B, C, D)

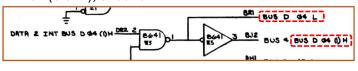
# RK11-D Backplane connectors (top view)





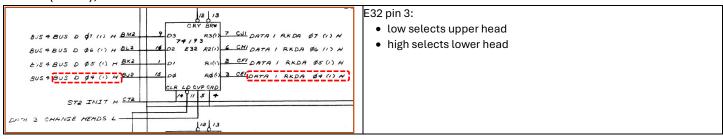


# M7257 (Slot 4), sheet 6



NUS   104 (1)   1	н	001 001 001	1 2	P P 6=0	HAND WIRE HAND WIRE H TO WHERE	52 52 52 52
-------------------	---	-------------------	-----	---------------	--------------------------------------	----------------------

# M7256 (Slot 3), sheet 3





### M7255 (Slot 2), sheet 5



# Backplane, Drive Bus BM2

