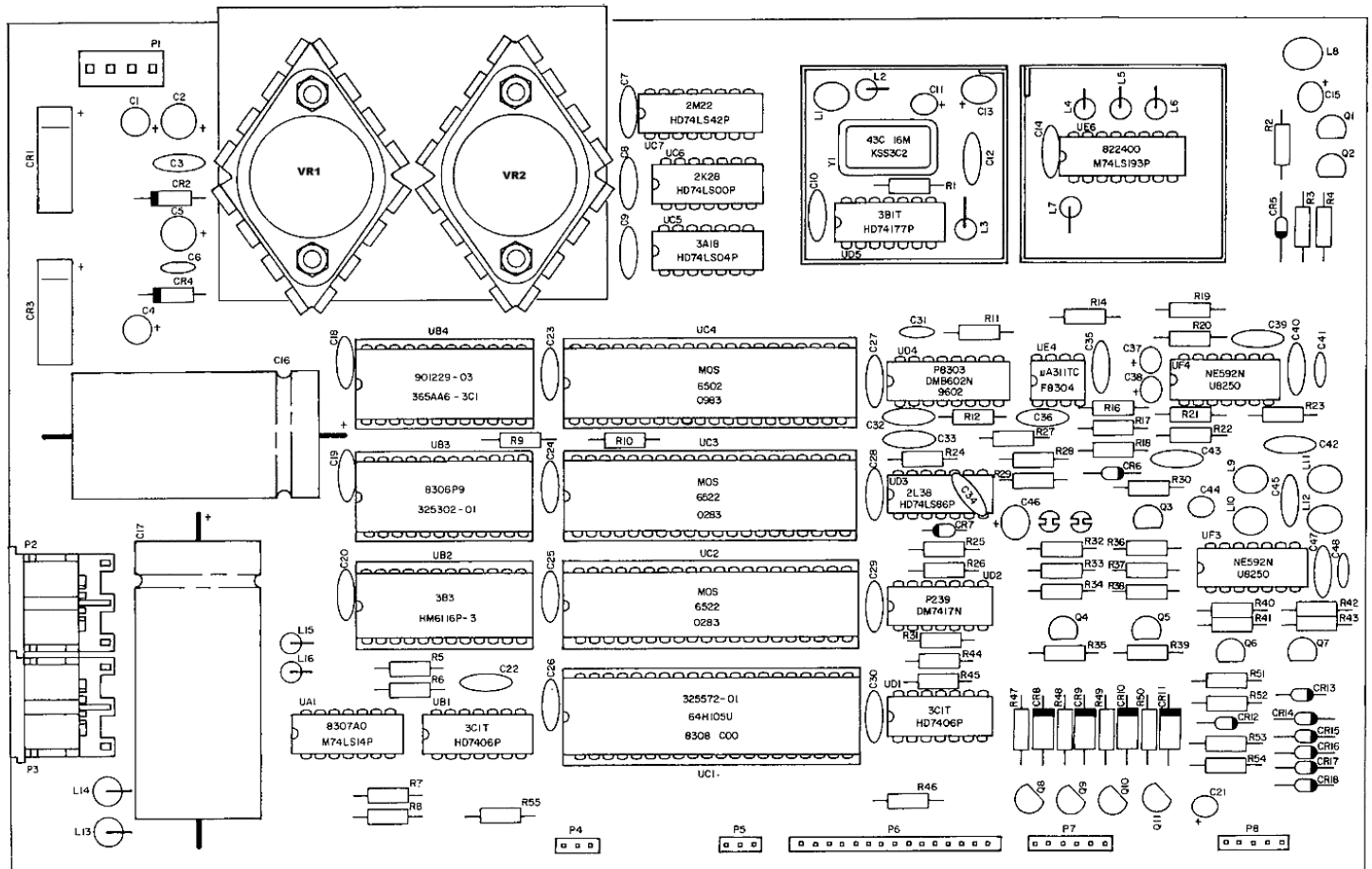
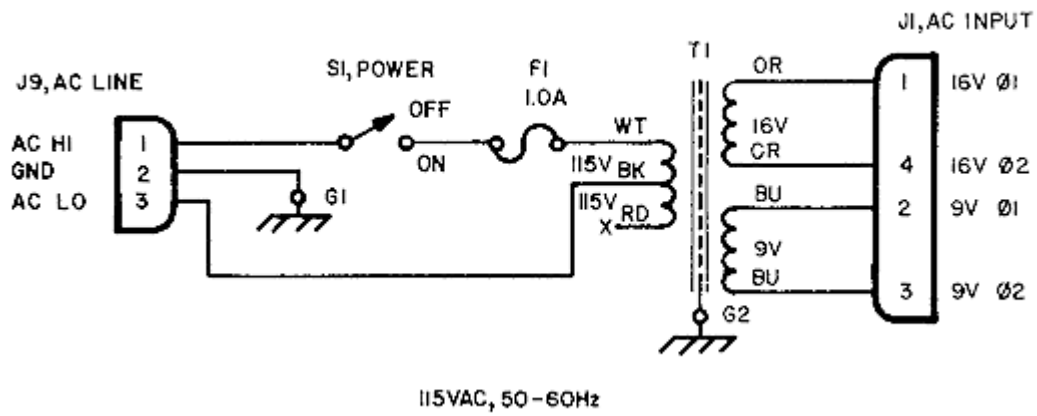


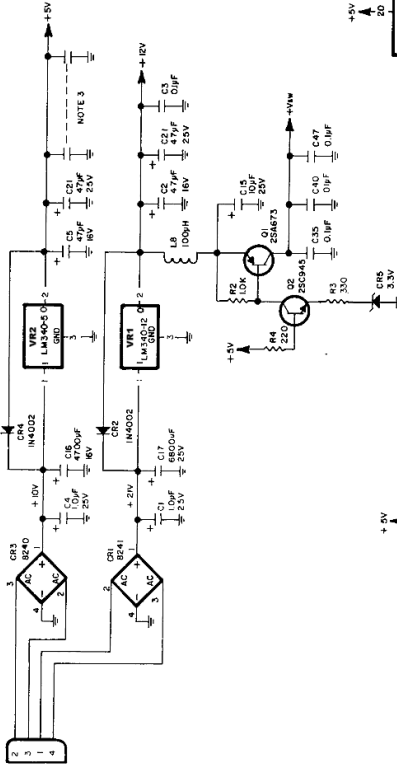
CBM FLOPPY DRIVE 1541

Model	System	Board-Description
VIC 1541	1540001-01 1540001-03 1540008-01	Very early version, long board. As above, only the ROMs are different.
1541	1540048-01 1540048-03 1540049 1540050	Shorter board with a 40 pin gate array, Alps mech. As above, but Newtronics mech. Similar to above Similar to above, Alps mechanism.
SX 64	250410-01	Design most similar to 1540048-01, Alps mechanism.
1541	251777 251830	Function of bridge rects. reversed, Newtronics mech. Same as above
1541 A	250442-01	Alps or Newtronics drive selected by a jumper.
1541 A2	250446-01	A 74LS123 replaces the 9602 at UD4.
1541 B	250448-01	Same as the 1541C, but in a case like the 1541.
1541 C	250448-01	Short board, new 40/42 pin gate array, 20 pin gate array and a R/W hybrid chip replace many components. Uses a Newtronics drive with optical trk 0 sensor.
1541C	251854	As above, single DOS ROM IC, trk 0 sensor, 30 pin IC for R/W ampl & stepper motor control (like 1571).
1541-II	A complete redesign using the 40 pin gate array from the 1451C and a Sony R/W hybrid, but not the 20 pin gate array, single DOS ROM IC.	
NOTE:	These system boards are the 60 Hz versions. The -02 and -04 boards are probably the 50 Hz versions.	

The ROMs appear to be completely interchangeable. For instance, the first version of ROM for the 1541-II contained the same code as the last version of the 1541. I copy the last version of the 1541-II ROM into two 68764 EPROMs and use them in my original 1541 (long board). Not only do they work, but they work better than the originals.



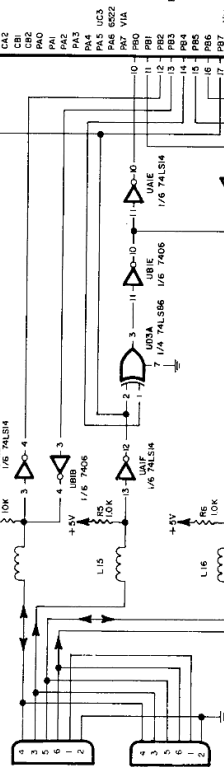
P1, INPUT PWR



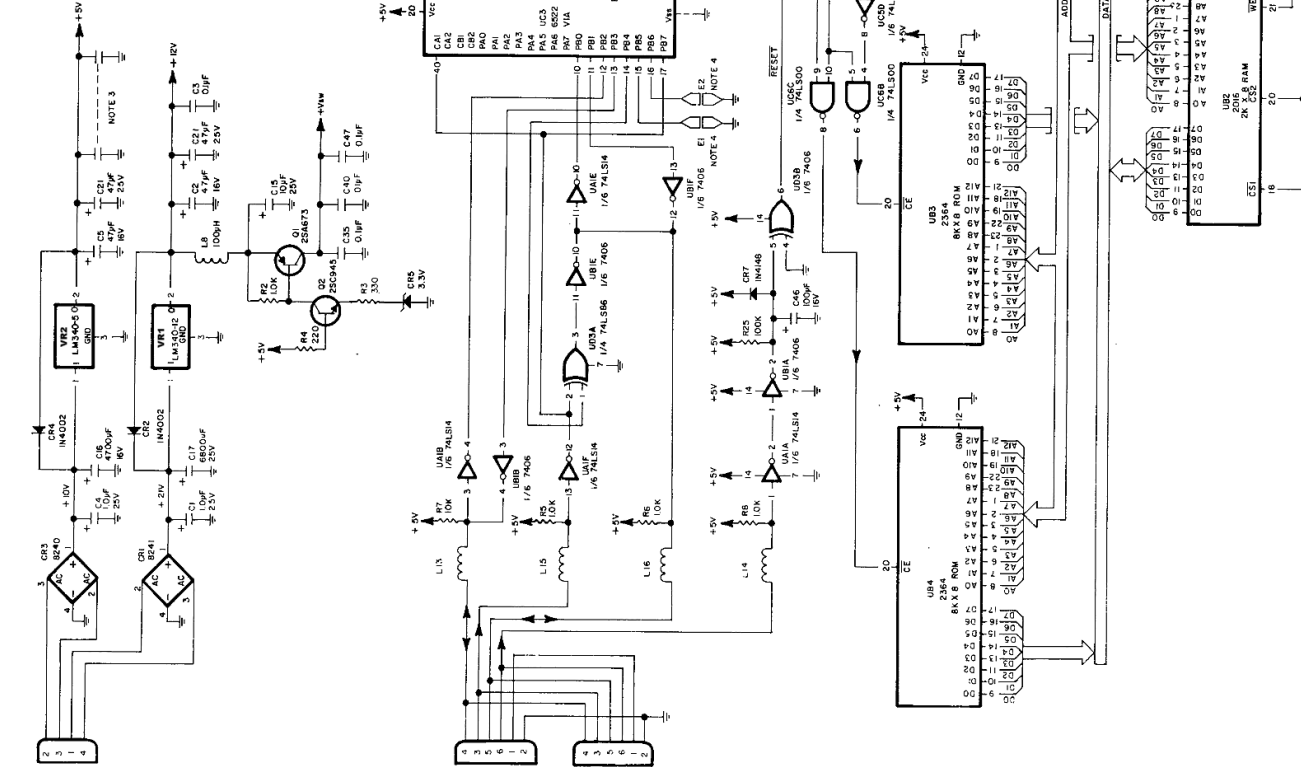
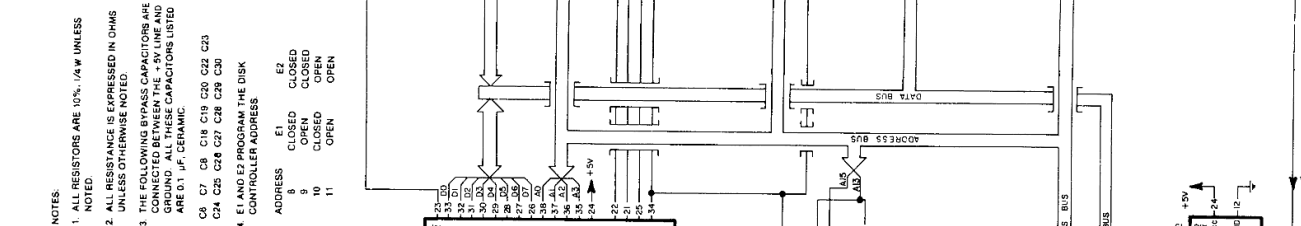
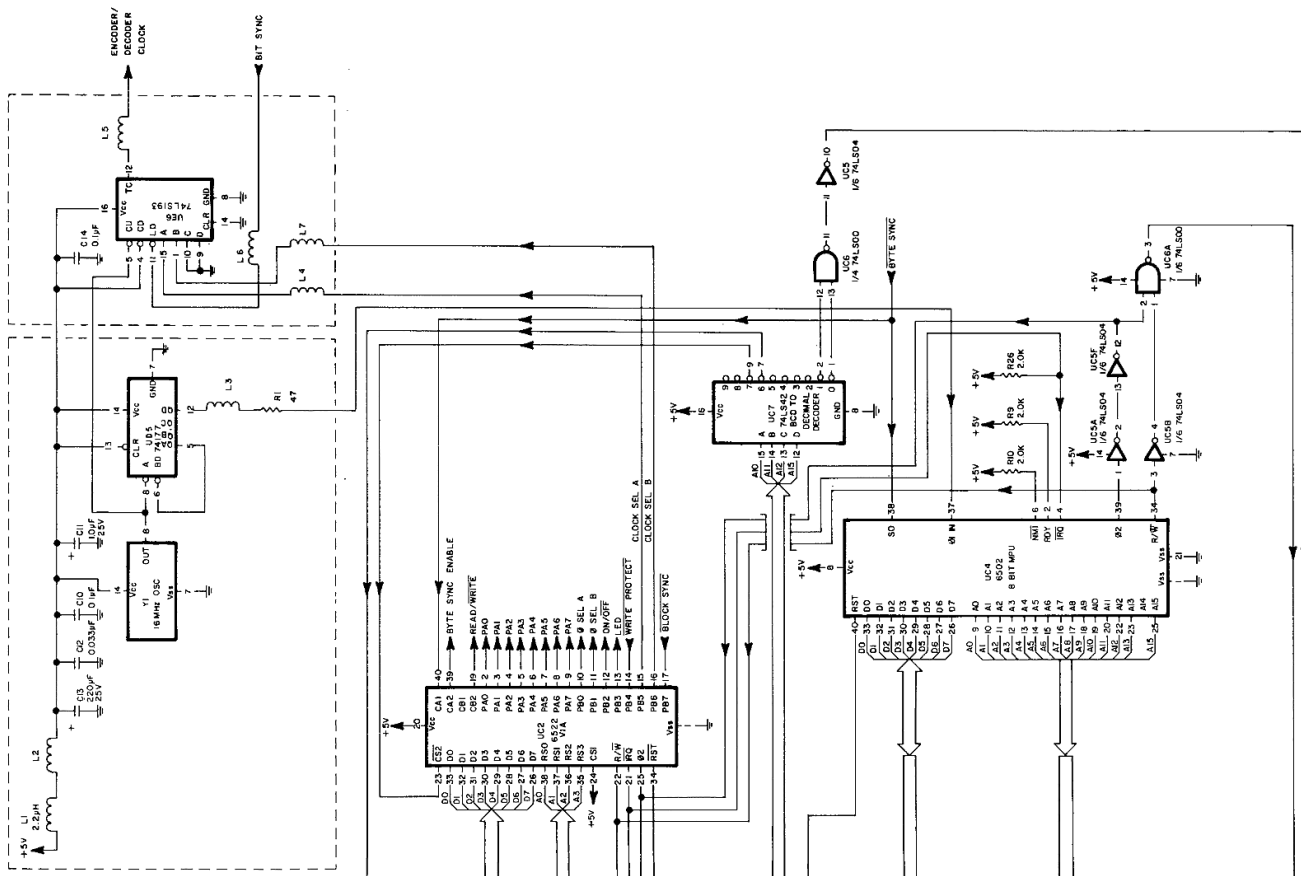
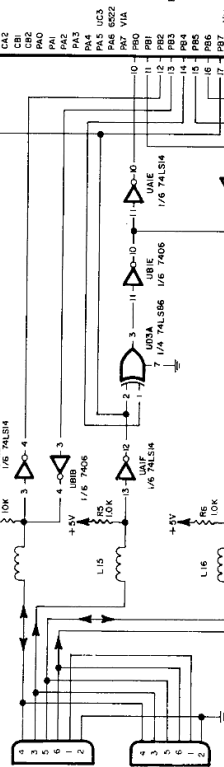
- NOTES
1. ALL RESISTORS ARE 1/4W UNLESS NOTED.
 2. ALL RESISTANCE IS EXPRESSED IN OHMS UNLESS OTHERWISE NOTED.
 3. THE FOLLOWING BYPASS CAPACITORS ARE CONNECTED BETWEEN THE +5V LINE AND GND UNLESS OTHERWISE NOTED. CAPACITORS LISTED ARE 0.1 μ F CERAMIC.
 4. E1 AND E2 PROGRAM THE DISK CONTROLLER ADDRESS.

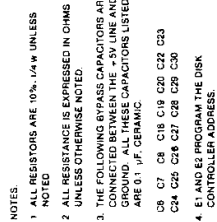
C6 C7 C8 C19 C20 C22 C23
C24 C25 C26 C27 C28 C29 C30
ADDRESS
8 9 10 11
E1 E2
CLOSED CLOSED
OPEN OPEN
CLOSED OPEN
CLOSED OPEN

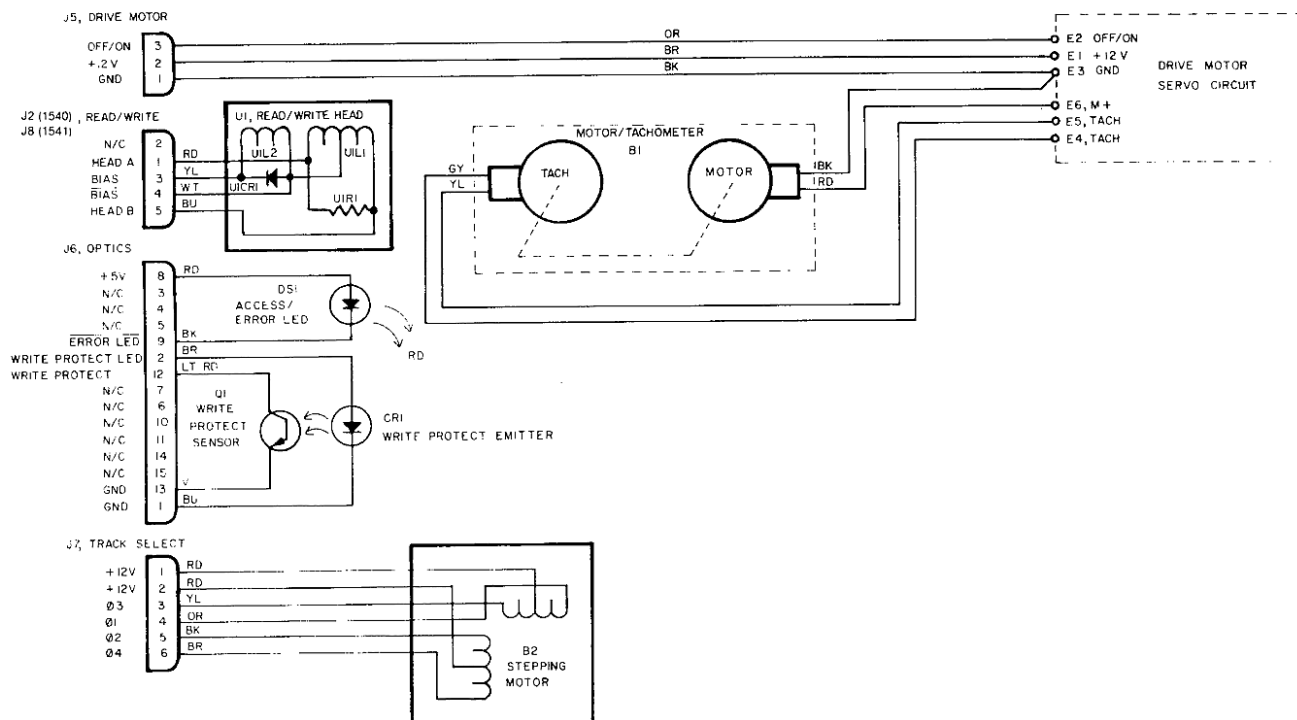
P2, SERIAL BUS



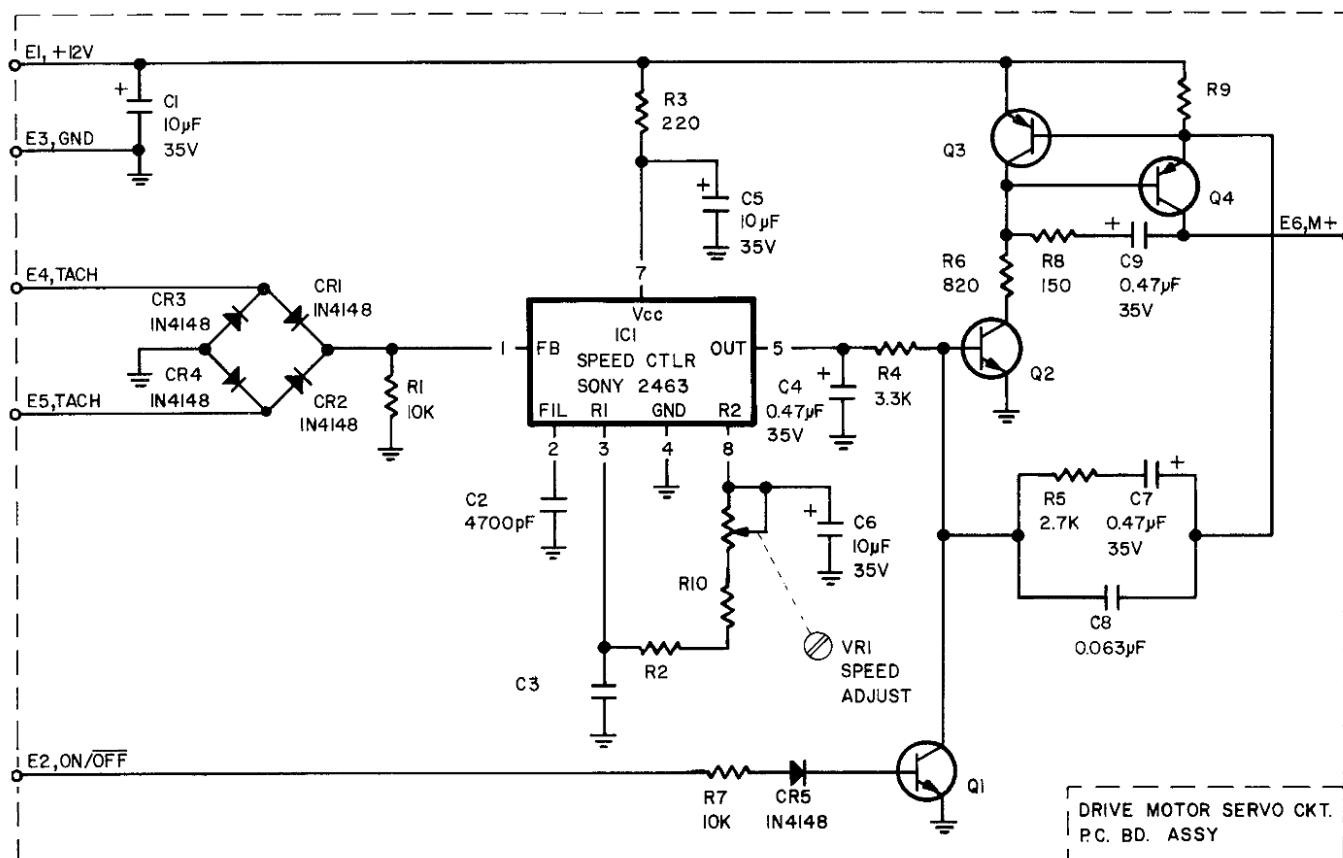
P3, SERIAL BUS



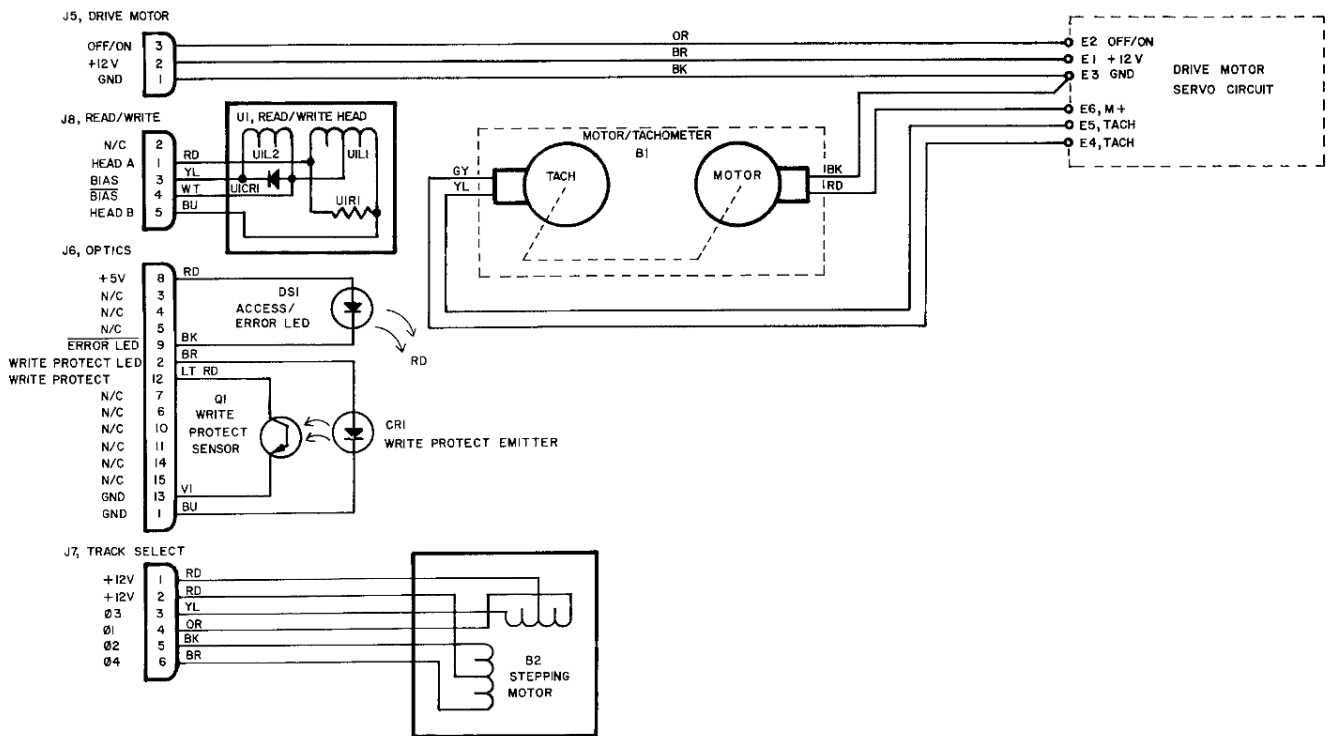




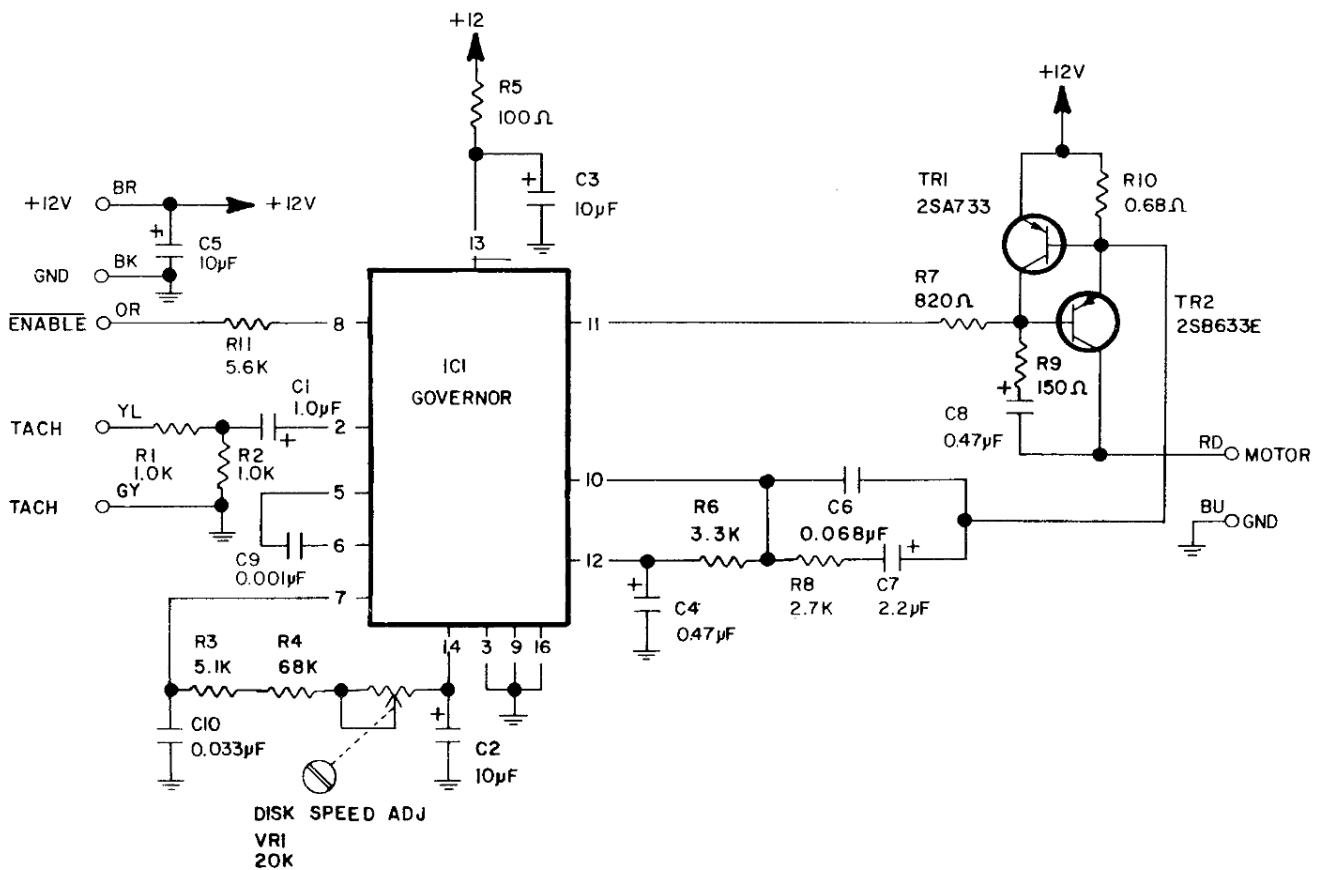
Drive unit schematic, Models 1540 and 1541.



Drive motor servo circuit, Models 1540 and 1541.



Drive unit schematic, Model 1542.



Drive motor servo circuit, Model 1542.