

Southbend 10K Speed Control & Interfaces

F. Husher

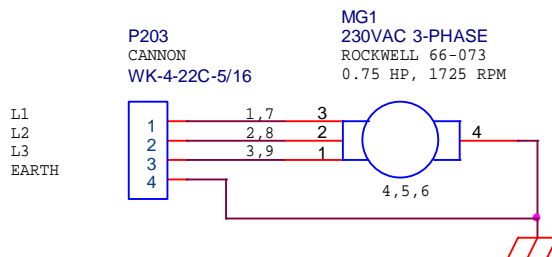
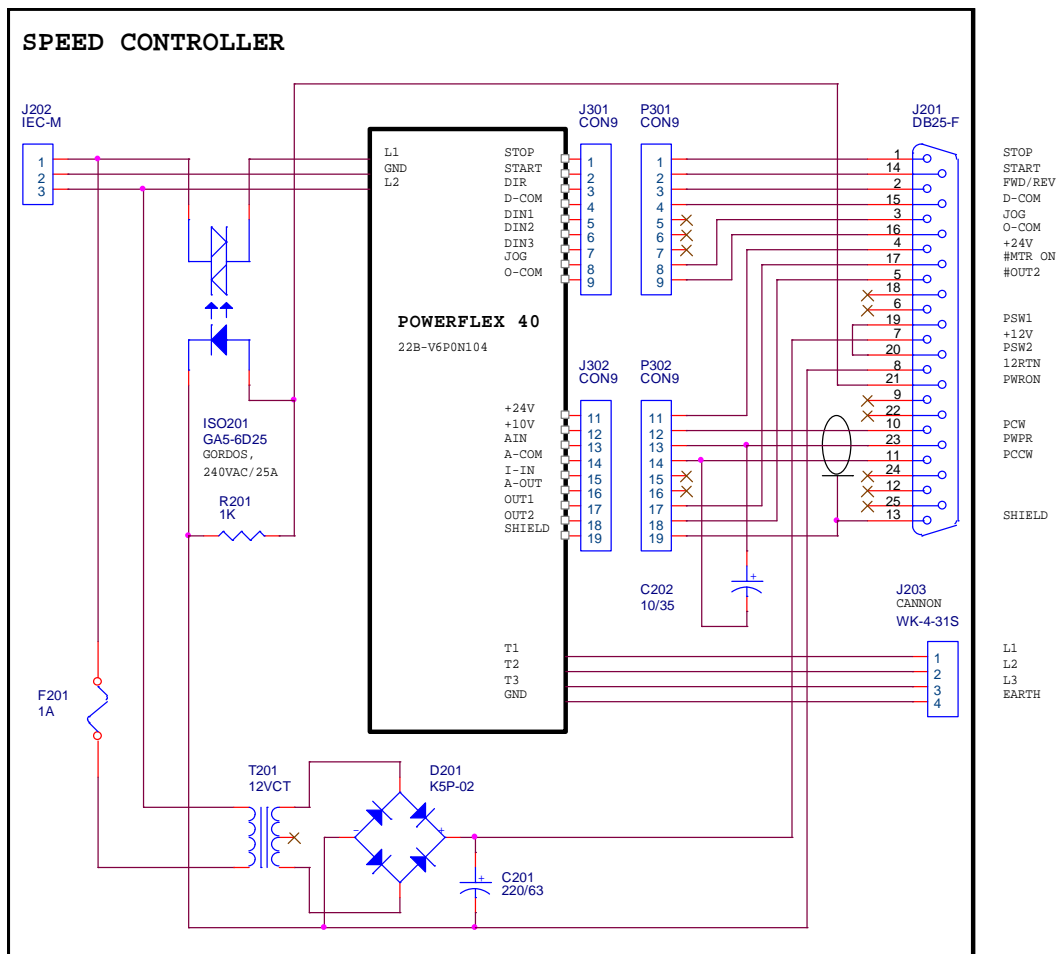
5-1-07

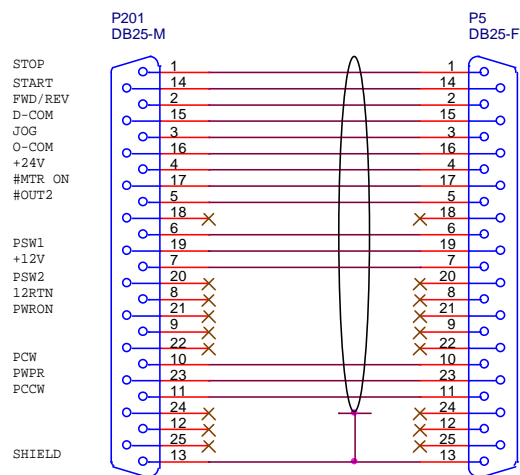
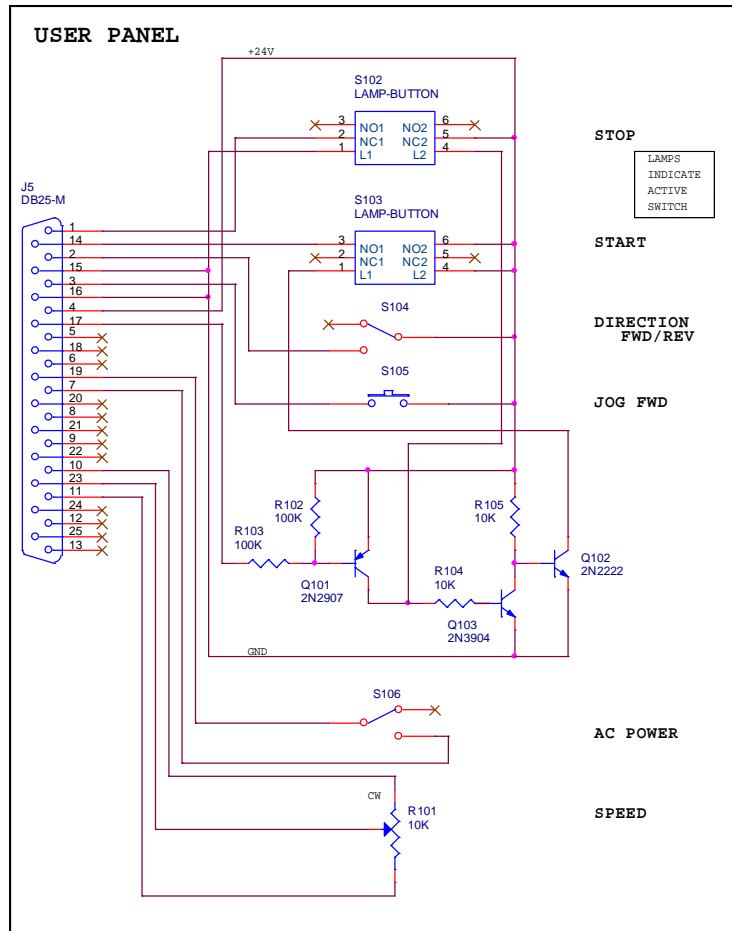


The remote controls on the speed servo controller are shown in the right hand photo. The remote is attached below the collet tray and is mounted at the far right hand

side of lathe bed. Each push button (RUN, STOP) incorporates a back lit lamp that is activated when that button becomes active. The RUN button is mounted in a shroud so that inadvertent activation is prevented.

While this design is configured for the PowerFlex VFD, most of the VFDs that I have come across need only a small variation to provide equivalence. This particular VFD is powered from 120VAC and produces 220VAC 3-phase. I designed this system to have a always powered control system so that the remote can turn on the opto-triac and power the VFD.





The interconnect cable was a reused shielded Centronics parallel printer cable, which are available surplus these days.