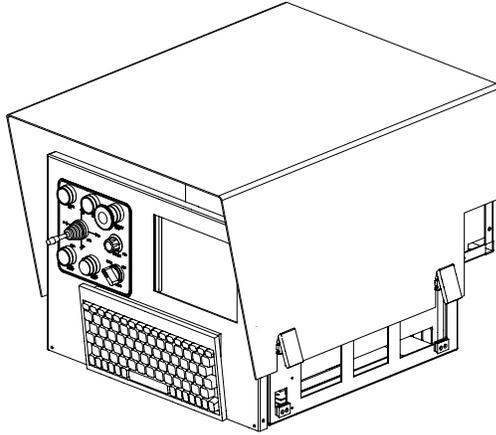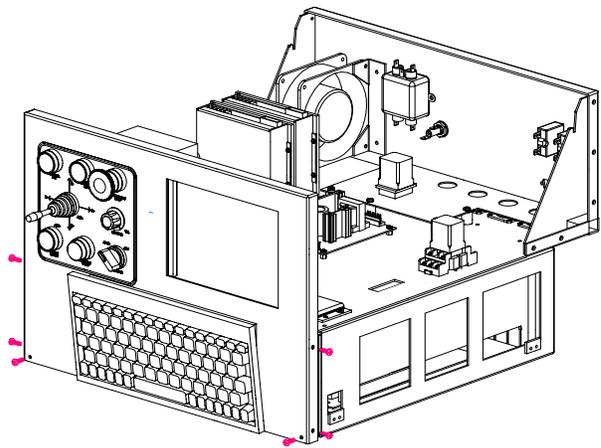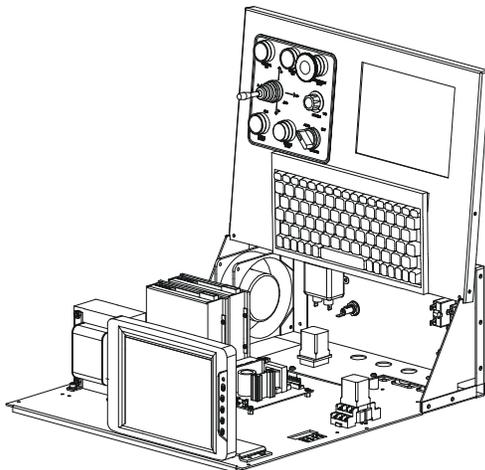To install Floppy Emulator, the CNC control must be disassembled. The pictures below illustrate the steps required. Note that the CNC control does not have to be removed from the GT-75; the top chassis can rest on the top of the GT-75.
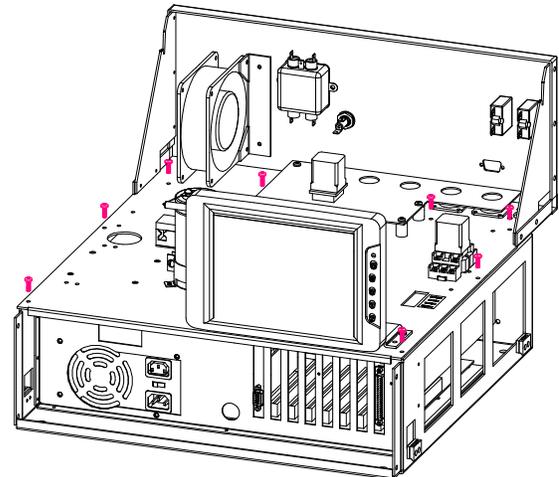

Disconnect all cables at rear of CNC. Un-plug power cord, then remove the blue cover.

Remove six screws holding front panel.

It is not necessary to disconnect cables to front-panel. Stow panel in notches at rear of top chassis as shown.

To gain access to the computer, disconnect all cables at rear of CNC, remove (8) screws and set chassis aside.
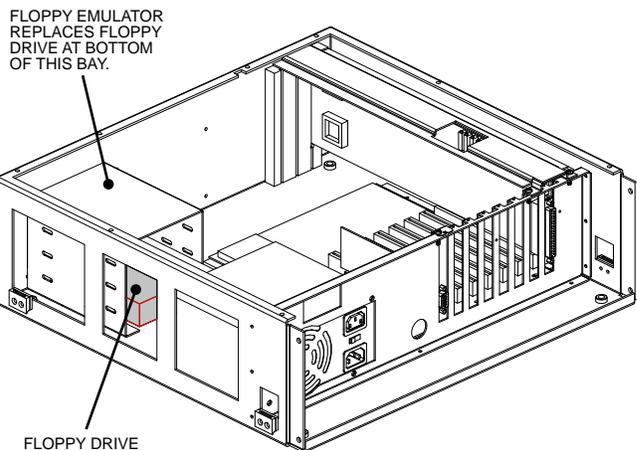
Installing the Emulator

The floppy emulator replaces the existing floppy drive in the drive bay. The emulator mounts and connects the same way as the original floppy disk drive. Disconnect the power cable and the ribbon cable, then remove and discard the four screws holding the floppy drive. Install the emulator using screws provided. Reconnect the power cable and the ribbon cable.

Be sure to orient the ribbon cable with the red stripe toward the power supply connector.

Also, the connectors have two rows of pins; be careful to engage both rows.

NOTE: If you have two floppy drives, the emulator replaces both; plug twisted end of ribbon cable into emulator; disconnect other drive.

FLOPPY EMULATOR REPLACES FLOPPY DRIVE AT BOTTOM OF THIS BAY.

FLOPPY DRIVE

Aug 2024

USB Floppy Emulator Description

Function
The emulator treats a properly formatted USB stick as a "stack" of 1.44MB floppy disks, which you can select via the two buttons on the face of the unit.

The right button increments the 1's digit of the display, and the left button increments the 10's digit. Pressing both buttons at once increments the 100's digit. Selecting a different number on the display is exactly the same, from the CNC's point of view, as removing one disk and inserting another.

USB Stick (Thumb drive)
The emulator is shipped with a USB stick that's already formatted for use.

Disk 0 in the virtual stack is blank floppy, ready for use as backup. Disks 1 - 7 are formatted as a hard drive setup disks, which can be used to reformat a failed hard drive. Disks 8 - 13 are system disks, and disk 14 is an update disk for the various execs. A label attached to the stick identifies the different setup disks.

The USB stick that came with your emulator is ready to use. Don't reformat it, because you may need to use one of the hard drive setup disks.

Format New USB Stick
If you need to format a new USB stick, it can be formatted in the emulator by depressing both buttons on the emulator's face while powering it up. As the emulator initializes it displays a series of numbers, then, if the buttons are still held down, it begins counting up to 999. Once you see that it is counting up, you can release the buttons. After it reaches 999, it will go back to 0 and stay there. This takes about 10 minutes. Once the stick is formatted you can use it just as if it was a stack of blank floppies.

Software
Software for accessing the different disk partitions on a Windows computer is available online at:
omniturn.com/mike/USB_Floppy_Emulator_1.40i.exe

Hard drive setup disk images are available online at:
omniturn.com/mike/images.exe

Complete instructions for using software are available online at:
omniturn.com/bin/RepairParts/floppy_emulator_stick.pdf