ST300 VTR Controller
SELF TEST MODE

To access the built-in SELF TEST mode, after the ST300 VTR Controller has powered up, press and hold the [**SHIFT**] key, then press and release the [**ENTER**] key.

  The display will show: "KEY= XXXX   WHEEL=XX"
                              "   T-BAR =XX"

            XXXX= key scan value
              XX= position value

KEYBOARD TEST
Press any key. The associated red LED will turn on. "Key= XXXX" will display the key scan value of the pressed key.

Release the key. The associated red LED will turn off.   The displayed key data will be "

There is no LED associated with the numeric keypad. When a numeric keypad key is pressed, only a key scan code will be displayed.

WHEEL TEST
Turn the WHEEL. The position value will increment or decrement dependent upon direction of movement. Turn the wheel clockwise to increment the value. Turn the wheel counter-clockwise to decrement the value.

At positions "00," "10," and "F0" the wheel detent will engage and can be felt.

T-BAR TEST
Move the T-BAR. The position value will increment or decrement dependent upon direction of movement.

When fully down, toward the front of the ST300, the position value will be "00." As the T-BAR is moved toward the back of the ST300, the position value will increment.

VTR #1, #2, #3, & #4 CONNECTOR TEST
Build the 9-pin RS422 TEST PLUG as described below.

9 PIN RS422TEST PLUG - 9 Pin D type, male
Wire pin #2 to pin #8
Wire pin #3 to pin #7

Connect the 9-pin RS422 TEST PLUG to the VTR #1 connector on the rear of the ST300. If the port is working properly, the display will show 'VTR1= OK' in the lower left hand corner of the display. If the port is not working properly, nothing will be displayed.

Connect the 9-pin RS422 TEST PLUG to the VTR #2 connector on the rear of the ST300. If the port is working properly, the display will show 'VTR2= OK' in the lower left hand corner of the display. If the port is not working properly, nothing will be displayed.

Connect the 9-pin RS422 TEST PLUG to the VTR #3 connector on the rear of the ST300. If the port is working properly, the display will show 'VTR3= OK' in the lower left hand corner of the display. If the port is not working properly, nothing will be displayed.

Connect the 9-pin RS422 TEST PLUG to the VTR #4 connector on the rear of the ST300. If the port is working properly, the display will show 'VTR4= OK' in the lower left hand corner of the display. If the port is not working properly, nothing will be displayed.

GENERAL PURPOSE INPUT/OUTPUT TEST

To test GPI on the GPI I/O connector, connect one end of a wire to the GPI to be tested and the other end to ground (Pin 8).

 When the GPI is connected to ground (goes active low), the display will show:

"KEY= XXXX   G_   WHEEL=XX"
"   T-BAR =XX"

where "_" will be the number of the GPI being tested. The corresponding GPO, an open collector output, will also turn on (Active Low).

TO EXIT SELF TEST
To exit SELFTEST, press and hold the [**SHIFT**] key, then press and release the [**ENTER**] key. The ST300 will exit SELFT TEST and go through its normal powerup routine.

End of SELFTEST