Techno Inc.

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How To Use the Techno Touchpad - Tutorial

Click this box or continue to the last page for *LC Board / Touchpad Connection Options.*

In this Tutorial we walk you through the important task of zeroing a tool (bit) on a workpiece. The Techno touchpad helps automate and calculate this process for you.

NOTE: A tool bit must be loaded in the spindle and the touchpad connected for this tutorial.

1. START THE INTERFACE

    A. From your computer's **Start** menu, choose **Programs/Techno CNC Interface**.
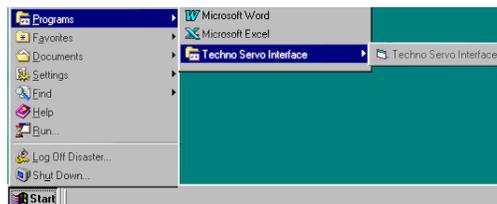
    The Techno CNC Interface **Main Menu** appears:
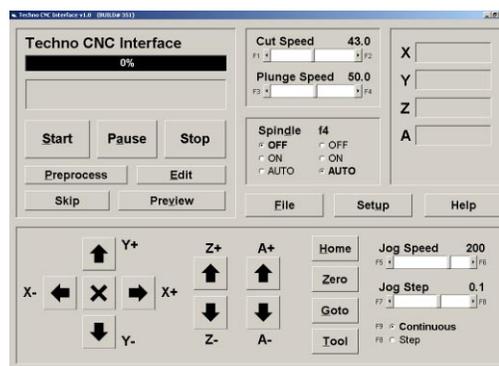
2. TEST TOUCHPAD

The following is designed to make sure the touchpad is functioning and to confirm to the GCODE program that the touchpad is installed.

    A.   Press   **Setup**   from the **Main Menu**.

        The **Setup** Window appears:
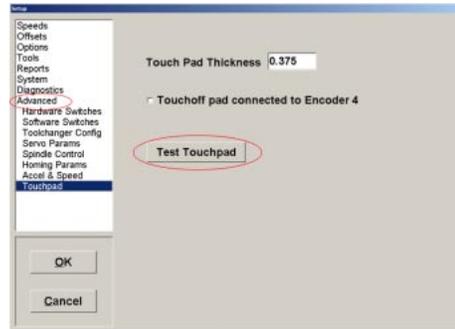
    B.   Click on **Advanced**, then the subset: **Touchpad**.

    C.   Press **Test Touchpad**

        This message should appear:

> Pick up the touchpad and touch it to the tip of the tool in the spindle.
>
> If nothing happens, click here to cancel the test.
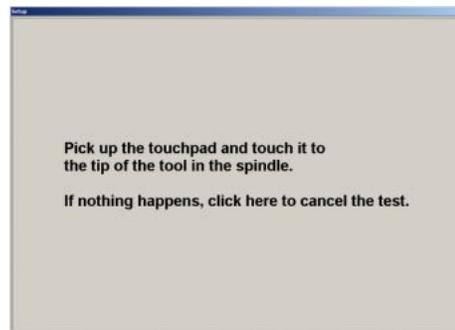
    H.   Follow the directions: *Pick up the touchpad and touch it to the tip of the tool in the spindle*. *If nothing happens click here to cancel the test*.

If the "test passed" screen appears:

Techno CNC Interface

Touchpad test passed.

OK

Press [OK] , the test has indicated that the touchpad is functioning properly.
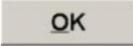
Press [OK] in **Setup** to exit and return the **Main Menu** (skip to **Step 3**).

If the test failed (*nothing happened*), you need to click where indicated (*click here*).

Setup

Pick up the touchpad and touch it to
the tip of the tool in the spindle.

If nothing happens, click here to cancel the test.

After clicking to cancel, the "test cancelled" screen should appear:

Techno CNC Interface

Touchpad test cancelled.

OK
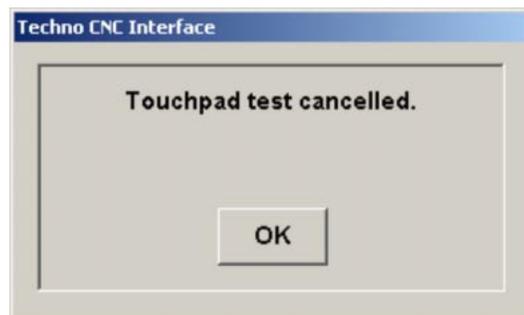
Press [OK] . We'll try again, with one difference.

NOTE: The one difference will include an automatic exit from the software. This is normal. Follow
the instructions /steps below.

From the **Setup/Advanced/Touchpad** screen:
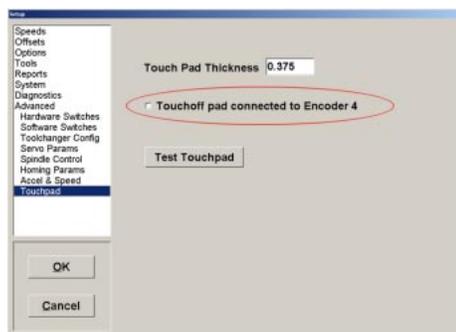
Activate (or deactivate) the **Accessory/Encoder 4** checkbox by clicking in the white box.

After clicking in the white box, this "exit" prompt should appear:
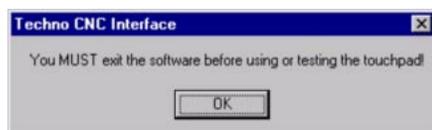
The software needs to exit and start fresh for the changes to take place.

I.   Press [OK].
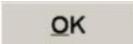
J.   Press [OK] in **Setup** to exit.

A second "exit" prompt should appear alerting you to the impending exit.
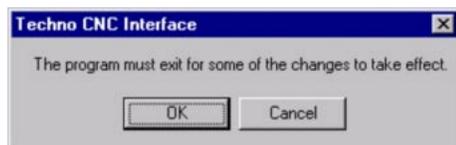
K.   Press [OK].
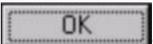
This will throw you out of the software, but the changes will be remembered.

L.   Start the software again (see **Step 1**) and return to **Setup/Advanced/Touchpad**.

M.   Press [Test Touchpad] again and follow the same directions as before.

If this test "passes" continue on to the next step. If this test had to be "cancelled" then further troubleshooting is required. Turn the power off, check the connections and call Techno for assistance.
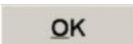
N.   Press [OK] in **Setup** to exit and return the **Main Menu**.

WARNING: Only proceed to **Step 3** if the touchpad test was successful (it "passed").
3. ZERO THE Z-AXIS

A. From the **Main Menu**, press [**Tool**] .

The **Tool Menu** appears:

NOTE: Make sure that the tool bit is located directly above the touchpad (about 4 or 5 inches). Although, this is just a Tutorial, in the future it is likely you will be setting the top portion of your workpiece as the Z-axis zero. So, if you want to place the touchpad on top of some cutting material for this portion of the Tutorial, do so now.

B. Press [**Touch Off Z Zero Position**]

The Z-axis begins it's decent, once it contacts the touchpad, it will retract back up, having already set the Z-axis Zero position. Check the **Jog/Position Display** counters on the **Main Menu**.

4. TEST THE NEW Z-AXIS ZERO USING GOTO

In this step we program the Z-axis to travel 1-inch above the zero we just set in **Step 3**.

A. Press [**Goto**]

The **Goto Pop-up Window** appears:
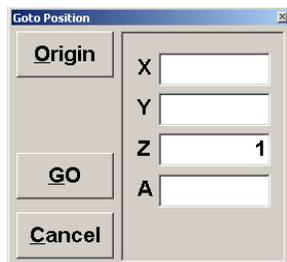
B. Type "1" into the Z input box, then press [**GO**] .

Watch how the Z-axis automatically travels to exactly 1-inch above the Z-axis zero.

NOTE: If you want the Z-axis to travel to the zero, simply type "0" instead of 1 in **Step 4B**.

Continue to the next page for LC Board / Touchpad Connection Options.

LC Series Control Board Touchpad Connections

No 4th Axis Present	Touchpad Connector to P4 / Encoder 4
4th Axis Present, BUT No Start/Stop Box	Touchpad Connector to P6 / Accessory Connector
4th Axis Present, AND a Start/Stop Box	Need the *LC I/O Y-Cable* to P6 (Touchpad and Start Stop Box get connected here)

P4 Encoder 4 Connector

P6 Accessory Connector

JP4 I/O Connector