AVIDCNC

Spindle / VFD System Advanced Setup Guide
VFD Parameters

v2021Q1.2

VFD Parameters

> ⚠️ **Warning**
>
> All Avid CNC Plug and Play Spindle / VFD Systems come pre-configured with the correct VFD parameters. **Do not change a VFD parameter unless our support team or documentation specifically directs you to do so.** Setting an incorrect VFD parameter can cause a safety hazard or result in damage to your machine.

In some cases it may be necessary to change certain parameters in the VFD. The **How to Set VFD Parameters** section below provides an overview of how to change parameters on the Delta VFDs used in Avid CNC Plug and Play Spindle / VFD systems. If you have any questions or need assistance, please Contact Us.

How to Set VFD Parameters

> ⚠️ **Warning**
>
> It is recommended to have your CNC controller turned off and Mach4 closed while changing VFD parameters.

When you are instructed by the our support team or our documentation to change a VFD parameter, you will be given a parameter such as "04-12". **This is an example parameter that will be used in these instructions.**

- With the VFD system powered on, locate the digital keypad on the VFD.

- Press the **Enter** button once.

- Use the ▲ and ▼ buttons to until you see the desired parameter group. This is "04" in the example parameter.

- Press the **Enter** button once.

- Use the ▲ and ▼ buttons to until you see the desired parameter. This is "12" in the example parameter.

- Press the **Enter** button once and you will now see the current value for this parameter.

- Use the ▲ and ▼ buttons to enter your new value for this parameter.

- Press the **Enter** button once to set the new value.

- Press the **Mode** button twice to return to the starting display.

- The new parameter has now been set and it is safe to power back on your CNC controller and open Mach4.

VFD Parameters for Spindle Changes

> **ℹ️ Info**
>
> It is only necessary to update these VFD parameters if you have an existing Avid CNC Plug and Play Spindle / VFD system and are only changing which spindle you are using.

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3 HP Avid CNC Spindle

> **ℹ️ Info**
>
> This parameter change is for those with an existing 4 HP Plug and Play Spindle / VFD System who are changing the spindle to a 3 HP Avid CNC spindle.

- Follow the **How to Set VFD Parameters** section and set the following parameters:

Parameter	New Value
01-08	33.3
04-12	33.3

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4 HP Avid CNC Spindle

> **ℹ️ Info**
>
> This parameter change is for those with an existing 3 HP Plug and Play Spindle / VFD System who are changing the spindle to a 4 HP Avid CNC spindle.

- Follow the **How to Set VFD Parameters** section and set the following parameters:

Parameter	New Value
01-08	25.0
04-12	25.0