

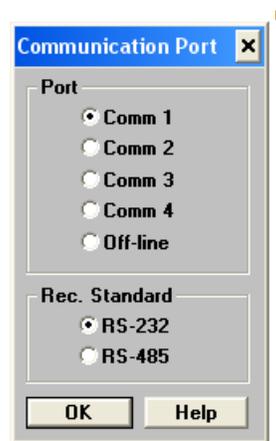
## EMA Start-Up Procedure

### Power Sequence

1. Make sure computer with dSPACE software is powered on.
2. Next, connect the LVDT signal conditioner's 24V power supply to the 120V AC wall socket.
3. Connect the DIN-rail mounted 24V power supply to the 120V AC wall socket.
4. Next, start the dSPACE software running the correct \*.sdf file for the EMA application.
5. Power on the T200 by switching the 240V wall supply. **Wait** for the T200 to display anything other than P before continuing.
6. Finally, open MOOG WinDrive software and follow the steps below.

### Software Steps

When **MOOG Windrive** starts up, the following prompt should be seen:

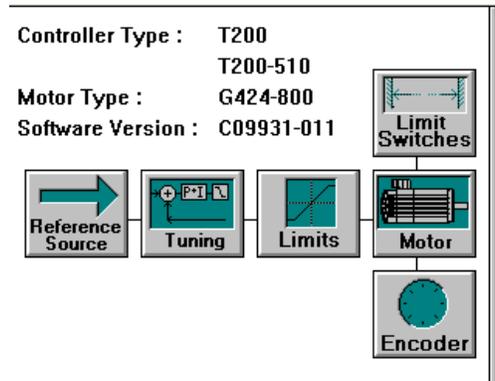


Select **Comm 1** and **RS-232**, then **OK**. The next prompt will be for a password.

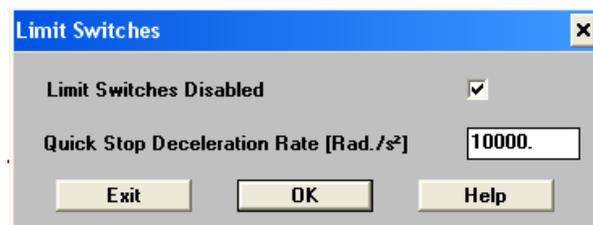


The **password** is the number **'0'**.

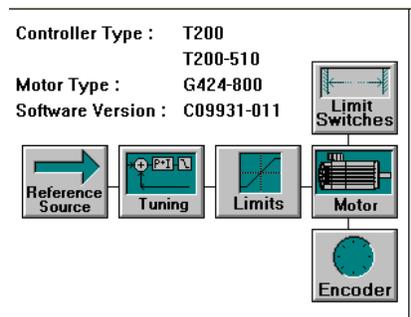
Next you want to locate the **Limit Switches** control on the left side of the screen. Click there:



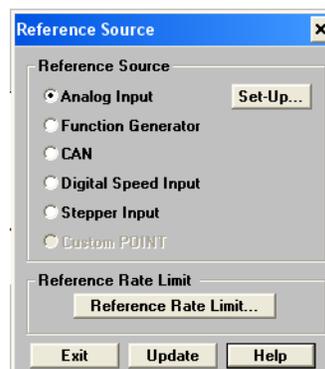
At the next prompt, you want to **Disable the Limit Switches** and click **OK**.



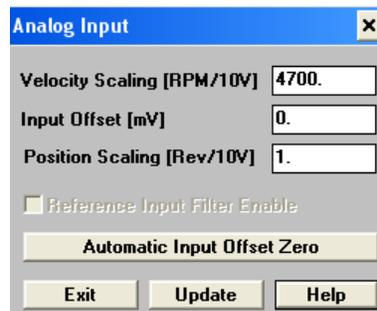
Finally, set the input offset. First, insure that dSPACE is outputting a velocity command of 0V. Then click on **Reference Source**.



At the next prompt, click **Set-Up** next to Analog Input.



Once you have insured that dSPACE is outputting a velocity command of 0V, you can click on **Automatic Input Offset Zero**.



You will notice the field labeled Input Offset [mV] will change from '0' to some other value. Then click **Update, and Exit**.

Once you have exited to the main WinDrive control window, you can **switch to dSPACE**.

**To enable the EMA to move hit F3. To Disable the EMA, hit F4.**

## Troubleshooting

### T200 7-Segment Display Outputs:

- P** – T200 is in start-up mode. Wait for self start up to finish before proceeding.
- U8** – T200 Limit Switches have not been disabled. Disable them in software before continuing. Also make sure the 24V external power supply is connected to 120V wall power.
- 0** – T200 is ready to be enabled. It is possible that a cutoff switch is engaged and preventing the system from enabling.
- E** – T200 is currently enabled. The analog input will control the motor speed.

### WinDrive

Unable to initialize communications with drive error:



This will occur when WinDrive cannot see the T200. Insure that the T200 is powered on and that the RS-232 cable is correctly attached to both systems.

**To reset communications** click on the **Low Level** tab and select **Reset Comm...**

