

## How to use JRKerrDriversV2.llb (support for Stepper and Servo motor drivers)

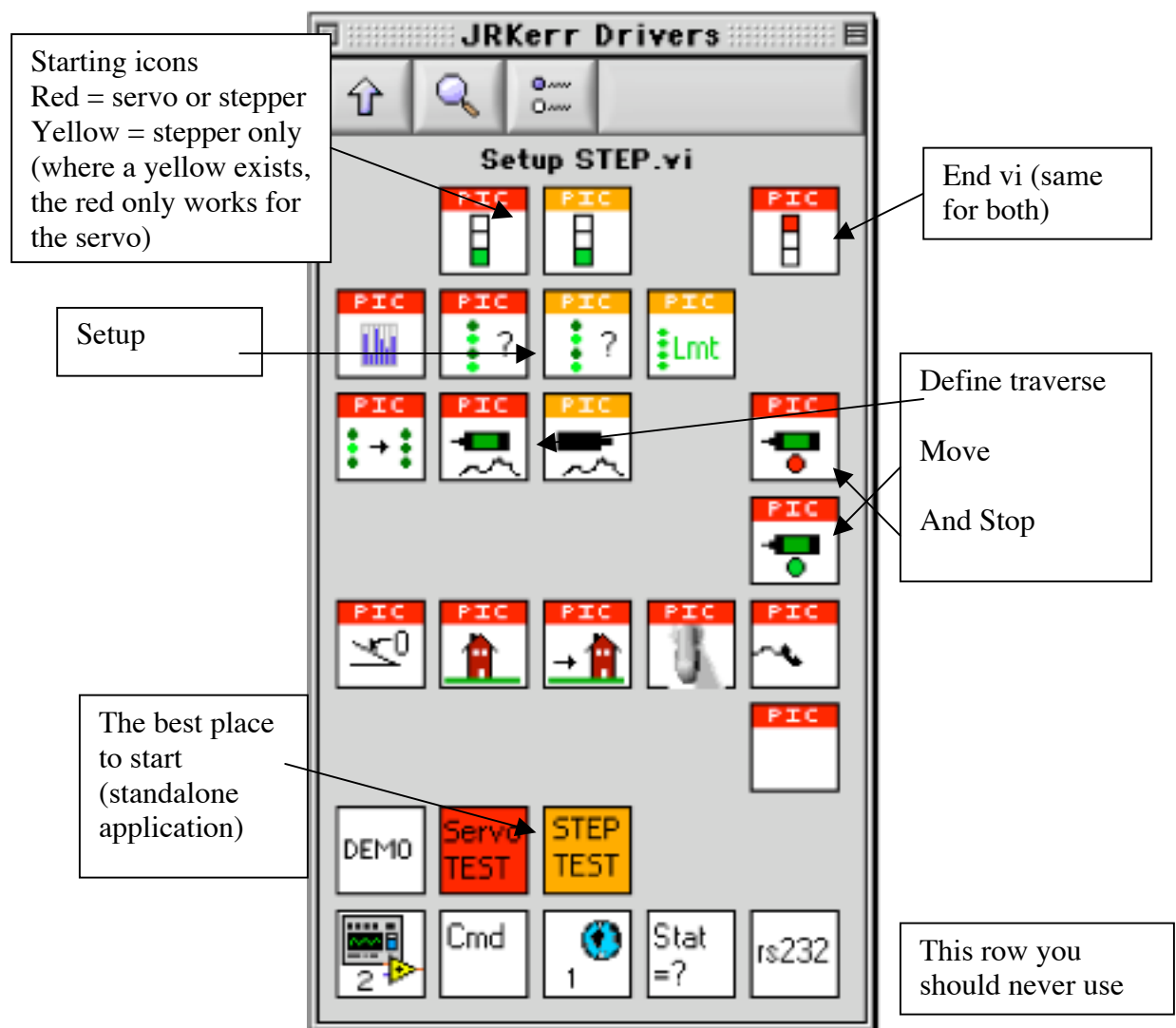
### 1. Installation

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1. Put JRKerrDriversV2.llb in your LabVIEW:Users.lib folder
2. Start LabVIEW
3. Go to a new diagram – select user libraries:JRKerr Drivers on the palette – and select either PIC Servo Tester or PIC Step Tester.
4. Double-click on the icon to open it
5. Hit run – this works just like the standalone app – make sure everything is talking

### 2. The Vis

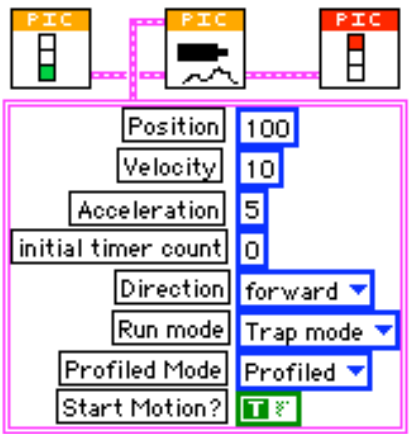
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### 3. Example Program

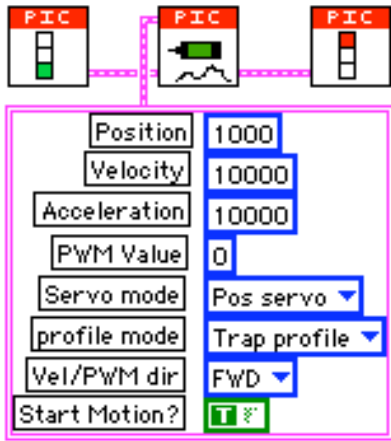
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The following program will move the stepper motor 100 steps:



see the driver documentation for a full explanation of all of the different commands.

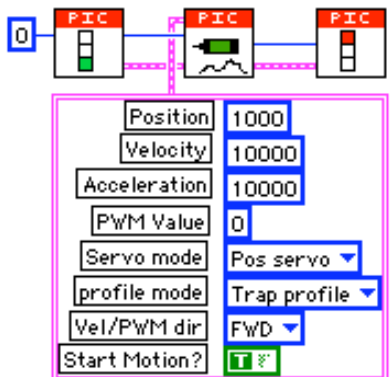
The program is very similar for the servo motor:



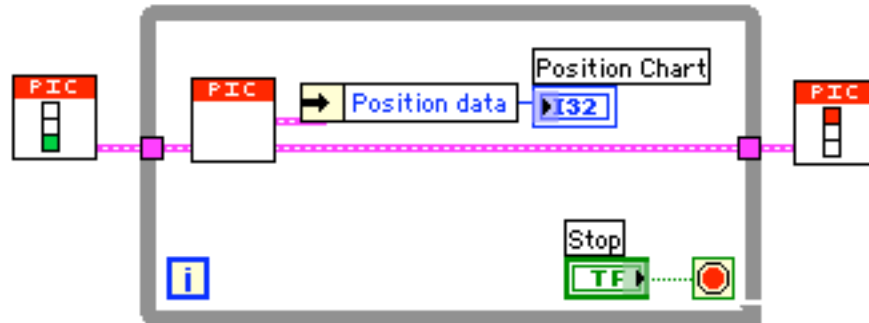
#### 4. Other Programming Tips

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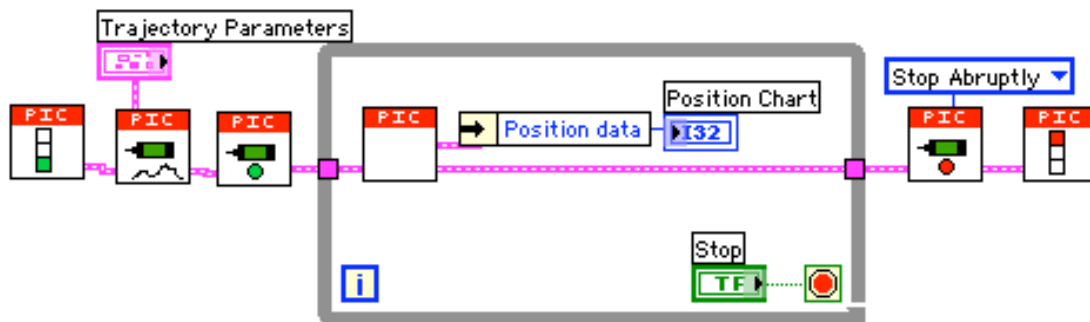
One thing to note is that if you are running multiple drivers on multiple COM ports – you will have to wire in the COM ports to each of the icons, like:



All vi's return information about the current state of the drivers. You can get that information every time you execute a command or you can just ask for it. For instance, the following code will plot up the position as a function of time (I am assuming that you are moving the motor by hand in this case)



If you want to move the motor with the computer and plot up the resulting position versus time it would look like:



## 5. The Small Print

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This software is freeware – and I assume absolutely no liability. If you have any bugs, please email me at [crogers@tufts.edu](mailto:crogers@tufts.edu).