**Step 1** – Get familiar with the DCX-PCI300. Open the Introduction and Installation Guide. Put PMC’s MotionCD into the CD reader of a Windows PC. Select:

Software & Manuals\PCI Bus Controllers\DCX-PCI300\User’s Manuals\Introduction and Installation Guide

Select View to open the document.

**Step 2** – Install the DCX-PCI300.

With the PC turned off, install the DCX-PCI300 into an available PCI slot. Power up the computer. Windows ‘plug and play’ (except NT4) will recognize the new PCI card. The Windows New Hardware Wizard will help you install the DCX-PCI300 device driver. For details refer to Chapter 2 of the Introduction and Installation Guide.

**Step 3** – Install PMC’s Motion Control API. From the MotionCD select:

Software & Manuals\PCI Bus Controllers\DCX-PCI300\Motion Control API\Install Motion Control

Complete installation by restarting the computer. For details please refer to Chapter 2 of the Introduction and Installation Guide.

**Step 4** – Install PMC’s Motion Integrator program (rev. 1.2 or higher). From the MotionCD select:

Software & Manuals\PCI Bus Controllers\DCX-PCI300\Motion Integrator\Install Motion Integrator

For details please refer to Chapter 2 of the Introduction and Installation Guide.

**Step 5** – Install and wire the DCX Motion Modules to the ‘outside world’. For details refer to Chapter 3 (for jumpering and wiring examples) and Chapter 6 (signal descriptions, pinouts, schematics) of the Introduction and Installation Guide.

**Step 6** – Use Motion Integrator to verify operation of the DCX-PCI300 and external devices. Launch Motion Integrator:

Start\Programs\Motion Control\Motion Integrator\Motion System Setup

For details refer to Chapter 4 of the Introduction and Installation Guide and Chapters 5 & 6 of the DCX-PCI300 User’s Manual.

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Step 7 – Optimize the performance of servo systems. Launch Servo Tuning:

Start\Programs\Motion Control\Motion Integrator\Servo Tuning

For details refer to Chapter 5 of the DCX-PCI300 User’s Manual and/or the Servo Tuning Primer and Servo Tuning Tutorial PowerPoint Presentations on the Motion CD.

Step 8 – Exercise the axes (servo’s and steppers) using PMC’s Motor Mover.

Start\Programs\Motion Control\Motion Integrator\Motor Mover

Execute: moves for one, a few, or all axes, on the fly velocity changes, multi-axes cycling. For details refer to Chapter 5 of the DCX-PCI300 User’s Manual.

Step 9 – Configure and exercise general purpose digital I/O.

Start\Programs\Motion Control\Motion Integrator\Digital Config.

For details please refer to Chapter 7 of the DCX-PCI300 User’s Manual and Motion Integrators Digital Configuration on-line help.

Step 10 – Configure and exercise general purpose analog I/O.

Start\Programs\Motion Control\Motion Integrator\Analog Config.

For details please refer to Chapter 7 of the DCX-PCI300 User’s Manual and the Motion Integrators Analog Configuration on-line help.

Step 11 – The Motion Control API (MCAPI) provides a powerful function Library for C/C++, VisualBasic, and Delphi programming. An on-line function reference is available from the Start Menu:

Start\Programs\Motion Control\Motion Control API\MCAPI Reference

or from the MCAPI Reference Manual on the MotionCD.

Step 12 – PMC is second to none in its dedication to technical support. The most recent software and controller firmware is available for downloading from our web site www.pmccorp.com. Email questions via our web site, or call to speak directly with a certified tech support engineer.

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