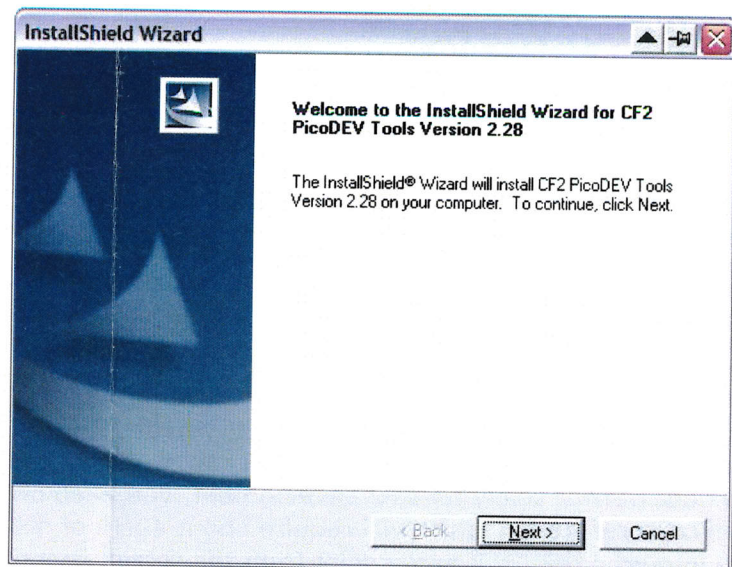## Install PicoDEV with MotoCross®

After you've installed CodeWarrior, insert the PicoDEV CD. On most PCs, you will automatically be presented with the installation dialog. On some others, you will have to double click on the CD icon and setup.exe to get things started. Work your way through the setup screens accepting the default options until the installation is complete. The suggested directory for the sc _____ ɔ be installed is C:\Program Files\Metrowerks\CodeWarrior. In order for everything to work properly we strongly suggest that you accept this path for the installation.



InstallShield Wizard

Welcome to the InstallShield Wizard for CF2 PicoDEV Tools Version 2.28

The InstallShield® Wizard will install CF2 PicoDEV Tools Version 2.28 on your computer. To continue, click Next.

< Back   Next >   Cancel

The Programs selection in your Start Menu will now contain an entry named Persistor containing the PicoDEV documentation index and the application; MotoCross for PicoDEV.

*Then copy \Program files\Persistor to Program Files (x86)\Persistor*

## Setup the Source Trees

MotoCross uses a powerful feature of CodeWarrior called Source Trees to steer projects to the proper directories for locating target components. The first time you use CodeWarrior with MotoCross, you must tell it where to look for the correct CFX build model by importing one of the pre-configured XML Source Tree panels. After that, source tree operation becomes completely transparent.

1) Start CodeWarrior from the Start / Programs menu.
2) Select **Preferences** from the main CodeWarrior IDE **Edit** menu
3) Click-select "**Source Trees**" from the IDE Preference Panels (left)
4) Click the **Import Panel...** button from the Source Trees pane (lower right)
   Navigate to C:\Program Files\Persistor\MotoCross Support\CFX\XMLSettingsPanels\IDE
   You should see the two primary configurations:

   Source Trees_CF2_IDEGlobalPref.xml
   Source Trees_CF1_IDEGlobalPref.xml

5) Choose Source Trees_CF2_IDEGlobalPref.xml
6) Click the **OK** button back in the Source Trees pane

*Do*

*Uninstall: after windows uninstall, remove \Program Files \Persistor*

# Install CodeWarrior™

Your first step toward CF2 development requires installing Metrowerks CodeWarrior for Palm OS. The minimum requirements are:

1) Windows 95, 98, ME, NT, 2000, XP
2) Pentium (recommended), 80386, or 80486
3) 64MB RAM,
4) 220 MB available hard disk space
5) CD-ROM for installation

CF2 development requires that you install CodeWarrior using the Metrowerks CD installer. NOTE: If you have an existing CWPalm version 8 or 9 installation that compiles Palm OS 68K programs, you can skip right to the Install MotoCross section. If you're using CodeWarrior solely for CF2 development, you need only select the options checked in the screen captures below, which will require about 40MB of disk space. Keep an eye on the dialog's Space Required text. If it varies a lot from the screen snapshots, carefully review your selections. If you have trouble, it's perfectly safe to reinstall CodeWarrior in part or whole, and that generally will get you going.

Start by inserting the CodeWarrior CD. On most PCs, you will automatically be presented with the installation dialog. On some others, you will have to double click on the CD icon and setup.exe to get things started. Click your way through the first half-dozen or so introductory and license information dialogs. Begin to pay careful attention when you get to the **Choose Destination Location** dialog.

For a painless introduction to CF2 development, you really do want to ~~accept~~ *change* the default location offered by the installer:
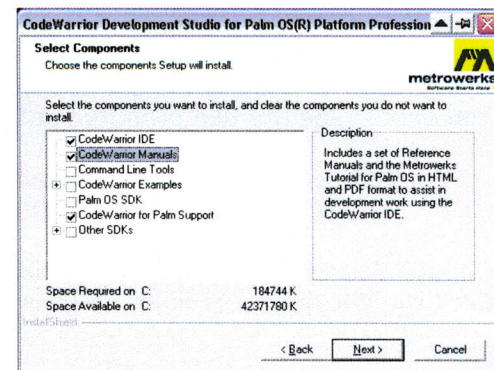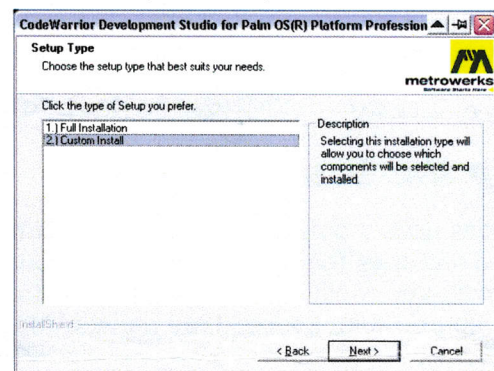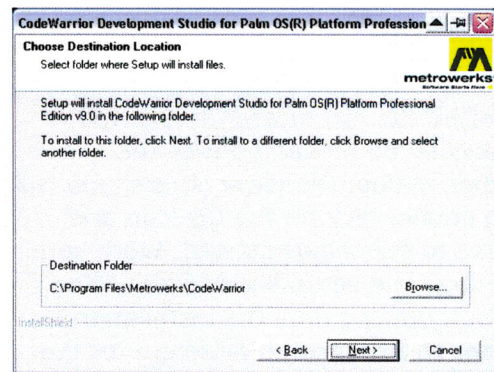
**C:\Program Files\Metrowerks\CodeWarrior**

At the **Setup Type** screen, select the **Custom Install** option.

At the **Select Components** screen uncheck everything except: "**CodeWarrior IDE**", "**CodeWarrior Manuals**" and "**CodeWarrior for Palm Support**" ③

Click your way through the remaining installer screens.

After completing the installation the Programs selection in your Start Menu will now contain an option for Metrowerks CodeWarrior IDE.

*[handwritten notes:]*
Update 9.2: \ProgramFiles\Metro...
run C:\Program Files\Metrowerks\CodeWarrior\CW for Palm...\BuildAll.mcp
      (Support)
↳ "make" button

↑ After setting source trees, after Persistor

**CompactFlash Compatibility:** Persistor Instruments sells and supports Silicon Systems brand Industrial Grade CompactFlash for the CF2 for several reasons:

Wear leveling which is performed inside Silicon Systems cards in a manner transparent to the CF2. Wear leveling is mandatory for reasonable card life in DOS/Windows compatible FAT file systems where a few crucial system sectors experience vastly disproportionate erase/write wear. Silicon Systems holds patents on their wear leveling technology.

The CF2 will not work with all brands of CompactFlash. Version 1.4 of the CompactFlash specification released in mid-1999 allows optional pull-down data bus. The CF2 ties directly to the data bus. Pull down resistors on a Motorola CPU32 based controller can keep the processor from starting and we have seen this with LexarMedia cards. PicoDOS takes special measures to minimize the occurrence, but it still can happen on "dirty" power ups.

For cost sensitive applications, Persistor also resells standard retail outlet SanDisk CompactFlash cards but these are not recommended for important data acquisition projects, and are not covered by Persistor Instruments' warranty.

*Code Warrior and PicoDEV (from Persistor) are old 32-bit programs. They should be in Program Files (x86) first.*

# Software Installation

## Overview

Persistor's PicoDEV tools support CF2 68K cross-development using the Palm OS version of the Metrowerks CodeWarrior compiler suite. This section describes the three installation steps required to prepare your Windows PC for building CF2 programs:

1) **Install CodeWarrior for Palm OS® Version 8 or 9**
2) **Install PicoDEV Tools for Persistor CF2**
3) **Specify Source Trees for your CF2Development**

In order to program your CF2, two separate software installations are required on your Windows PC. **Metrowerks CodeWarrior™ for Palm OS®** is the required C programming shell and compiler for your programming projects.

## A Note to CodeWarrior™ Pro 6 Users

Although CodeWarrior Pro 7 and beyond no longer support 68K programming, we do support CF2 programming using CodeWarrior Pro 6 for customers migrating from the CF1. If your PC is already setup for CWPro6 with CF1 tools, you will need to skip the Install CWPalm step and manually remove the legacy CF1 components as follows. You will still be able to program the CF1 but this will use newer tools compatible with both CF1 and CF2 that get installed in the Install PicoDEV step.

1) Using Windows Explorer, navigate to the CodeWarrior directory. This should be something like **C:\Program Files\Metrowerks\CodeWarrior**.
2) Remove the **"MotoCross Support"** folder.
3) Move into the folder labeled **"Stationery"**. Remove all of the folders that begin with CF1 or MotoCross.