



Beat the Price Increase

Due to an increase in the cost of sensors, effective October 10, 1995 the price for a Cam Pro Plus system will increase to \$2,900.00. Order now and beat the price increase.

NEW! Motor Drive for Cam Pro Plus

A motor drive is now available for Cam Pro Plus. It can be added to existing CPP stands. CPP starts and stops the motor for you. The drive control features a direction switch and a manual run switch. Informal testing shows that the motor drive increases system repeatability. It definitely makes rolling cams easier, and it's fun to use! or for more information.

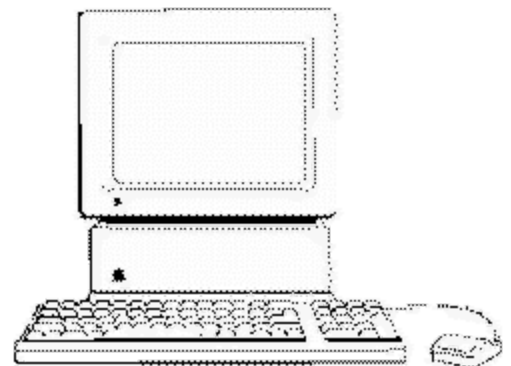
Trade Shows

We will be at the Performance Racing Industry (PRI) trade shows. PRI east is December 1-3 in Columbus, Ohio. PRI west is January 19-21 in Santa Clara, California.

For more information and to pre-register contact PRI: Phone (714) 499-5413 Fax (714) 499-0410.

How to Buy a Computer

1. Buy from a dealer who can provide service. In most areas you can find a local dealer with reasonable prices who can provide prompt service when needed. All it takes is one experience with having to ship a computer cross-country to make you wish you had bought from a dealer who can provide quick LOCAL service. Try to find a dealer who has been in the business for awhile to increase the chances that he will be there when you need him.
2. Decide what you want to do with the computer first, then buy a little more computer power than what you think you'll need. If your budget allows there is no problem buying the latest, greatest, and most powerful, but you'll pay a premium. Often a better choice is to buy one step back from the best that is currently available.
3. Buy an IBM compatible PC unless the software you need to run is available only on another type of computer (Apple, Amiga, etc.). The IBM compatibles are less expensive than other types. There is also a wider variety of software available for them. All Audie Technology software is designed to run on IBM compatible computers.
4. The computer field changes quickly. That is why my advice so far has been stated as general principles. Even so, some of today's advice may not be valid in a few months. Here are some specific recommendations that will without a doubt become outdated as computers become even more advanced. Depending on other software you plan to run you may need more than this.
 - a. Buy a 486 DX. This is enough computer to run all Audie Technology software and a good buy in today's market. The exception is Dynomation which can use all the computing power you can give it. For Dynomation consider a Pentium if your budget allows. Don't buy a 486 SX. The SX does not have a functioning math co-processor.
 - b. Buy a color super VGA monitor with a 0.28 (or smaller) dot pitch.
 - c. Buy a 300 Meg or larger hard disk. The larger the better.
 - d. Buy at least 2 Meg of RAM. If you plan to run Windows 3.1, 4 Meg is the minimum and 8 Meg is better. Windows 95 is reported to need even more for some programs.



- e. Make sure the computer has at least one parallel and two serial ports. (Serial ports are also called COM ports.)
- f. Get a 3.5 inch floppy drive. A CD ROM drive is a nice addition but not a necessity (yet).
- g. We wish all our customer *owned a modem and knew how to use it*. This would simplify distributing software updates and helping customers with problems. If you get a modem it should be 14.4 K baud or faster.

What Are Velocity, Acceleration, & Jerk?

Velocity is the rate at which position changes. In most applications it is expressed in terms of distance vs. time (miles per hour, feet per second, etc.) When dealing with camshafts time is replaced by degrees of camshaft rotation. This allows us to study camshaft profiles independent of engine speed. Thus camshaft follower velocity is usually expressed in units of inch/deg (as in Cam Pro Plus) or thousandths/deg (as in Valve Pro). Metric units are mm/deg (as in Cam Pro Plus) or micron/deg (as in Valve Pro).

The maximum velocity a flat tappet cam profile may have is limited by the diameter of the follower. Exceed this limit and the contact point between the follower and the cam will move off the face of the follower. This will very quickly destroy the cam as the edge of the follower digs into the cam.

Acceleration is the rate at which velocity changes. It is expressed in units of inch/deg² or thousandths/deg². Manufacturing issues and tolerable stress levels combined with the diameter of the follower and the diameter of the base circle limit the maximum acceleration a roller follower cam profile may have.

Jerk is how fast acceleration changes. It is expressed in units of inch /deg³ or thousandths/deg³. Cams with higher maximum accelerations and jerks are harder on the valve train. When examining the acceleration and jerk curves high negative values of acceleration and jerk are as important as high positive values.