



**Automated PC connected
CD/DVD Duplication System**

User Manual



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Quick Start

Getting started

Carefully remove your system from its shipping box and verify that all parts are present. If there are missing or damaged parts contact *All Pro Solutions* or an authorized distributor immediately to correct any miss-packed or missing parts.

You should find the following packaged with your duplicator:

- ✍ Autoloader: AU4 (up to 330 disc capacity), or AU7 (up to 630 disc capacity) or AU9 (up to 900 disc capacity), depends on your model configuration
- ✍ Tower populated with drives
- ✍ Fire Wire Card and Cables
- ✍ This User Manual
- ✍ Software and Manual (DiscJuggler)
- ✍ 5/64 hex head key (Allen wrench)
- ✍ Warranty card

For systems configured with printer, besides the above, you should find:

- ✍ Signature, Rimage, Teac or HP Printer
- ✍ Printer Plate (mounted on the bottom of printer)
- ✍ Printer Power Cable
- ✍ Printer Control Cable
- ✍ Printer Cable (USB or Parallel)

If your system is damaged during shipment, please contact the freight carrier first, and then contact your distributor or All Pro Solutions.

NOTE:

You should save your shipping materials so that if the need arises you can return your system for service. This packaging was designed specifically for shipping your system. Other packaging may not be as suitable.

System Requirements

To successfully and reliably use the CD/DVD Duplication system, you need the following:

For up to 4 drives:

- ? **CPU:** AMD AthlonXP, AMD Athlon64, Intel Celeron 800 MHz or higher, Intel Pentium III 800 MHz or higher, Intel Pentium 4
- ? **Motherboard:** must contain Intel i815, Intel i845, Intel i850, Intel i865, Intel i875, nVIDIA nForce2, or nVIDIA nForce3 chipsets. Examples: AOpen MX3S series, ASUS CUSL2 series, ASUS A7N8X Deluxe. Motherboard must have 1 working “Com Port” for Autoloader connection
- ? **Memory:** minimum of 256 megabytes. Should be higher if a large number of drives are in the system. Examples: PC133 SDRAM, PC2100 DDR, PC2700 DDR, PC3200 DDR, PC800 RDRAM
- ? **FireWire Host Adapter:** must contain NEC or Texas Instruments chipsets. Examples: Adaptec, IOI-1394, Maxtor, Orange Micro

Hard Drive: a fast, non-recalibrating hard disk 7200 RPM or better with 8 Mb Cache (avg. access time < 15 msec, transfer rate > 600 KB/second), big enough for applications and data for burning DVD’s (at least 5 GB Free Space)

For 7 or 9 drives:

- ? **CPU:** AMD AthlonXP, AMD Athlon64, Intel Celeron 1.7GHz or higher, Intel Pentium III 800 MHz or higher, Intel Pentium 4
- ? **Motherboard:** must contain Intel i815, Intel i845, Intel i850, Intel i865, Intel i875, nVIDIA nForce2, or nVIDIA nForce3 chipsets. Examples: AOpen MX3S series, ASUS CUSL2 series, ASUS A7N8X Deluxe. Motherboard must have 1 working “Com Port” for Autoloader connection
- ? **Memory:** minimum of 512 megabytes. Should be higher if a large number of drives are in the system. Examples: PC133 SDRAM, PC2100 DDR, PC2700 DDR, PC3200 DDR, PC800 RDRAM
- ? **FireWire Host Adapter:** must contain NEC or Texas Instruments chipsets. Examples: Adaptec, IOI-1394, Maxtor, Orange Micro
- ? **Hard Drive:** a fast, non-recalibrating hard disk 7200 RPM or better with 8 Mb Cache (avg. access time < 15 msec, transfer rate > 600 KB/second), big enough for applications and data for burning DVD’s (at least 5 GB Free Space)

Mounting the tower

For all systems, the tower is provided with a tower plate mounted on the bottom. This plate will help in stabilizing the tower on the adapter (see Fig.1a for AU4 and AU7 autoloaders or Fig.1b for AU9 autoloaders).

Make sure all thumbscrews are loose, place the tower on top of the adapter matching the blue marks (see Fig.2).

Do not tighten the thumbscrews until the drive alignment operation is performed. (see page 17)

Mounting the Printer

This autoloader can be used with Signature, Rimage, HP or Teac printer and uses the same mounting system for either one of them.

Place your printer (with its own plate mounted on the bottom) on top of tower. Do not tighten the screws until the printer alignment is made. Proceed with “Connecting Power” and “Drive and Printer Alignment” (see page 17).

When alignment is OK, please tighten in the same time, front left and front right thumbscrews # 3. Repeat this operation for rear left and rear right thumbscrews # 3.

Fig. 1a
System unassembled (no printer configuration)
AU4 or AU7 autoloaders

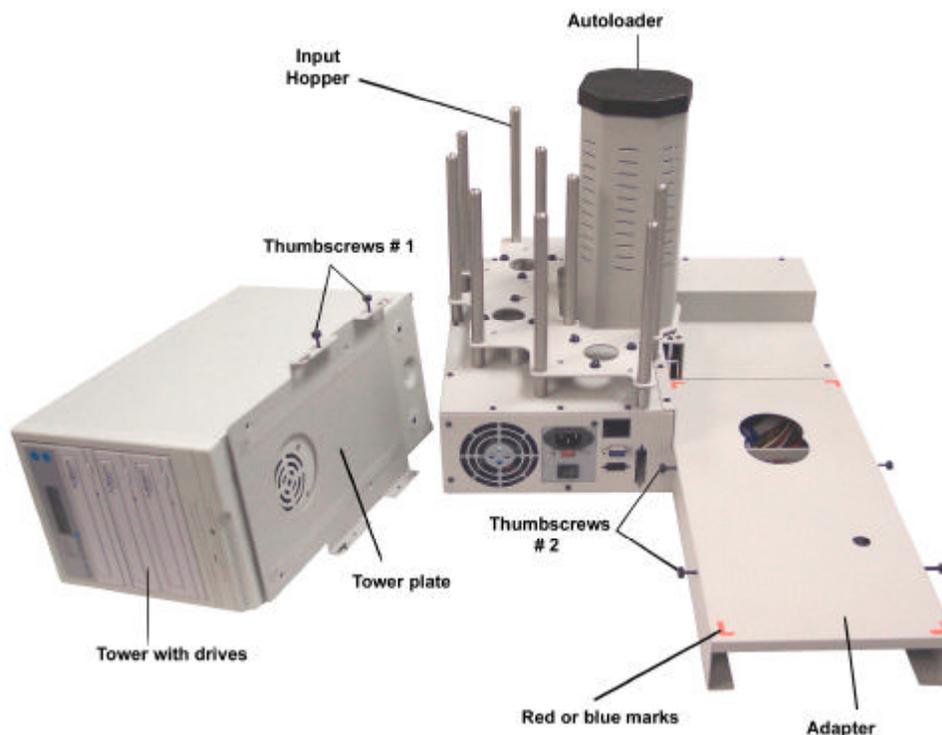


Fig. 1b
System unassembled (no printer configuration)
AU9 autoloader

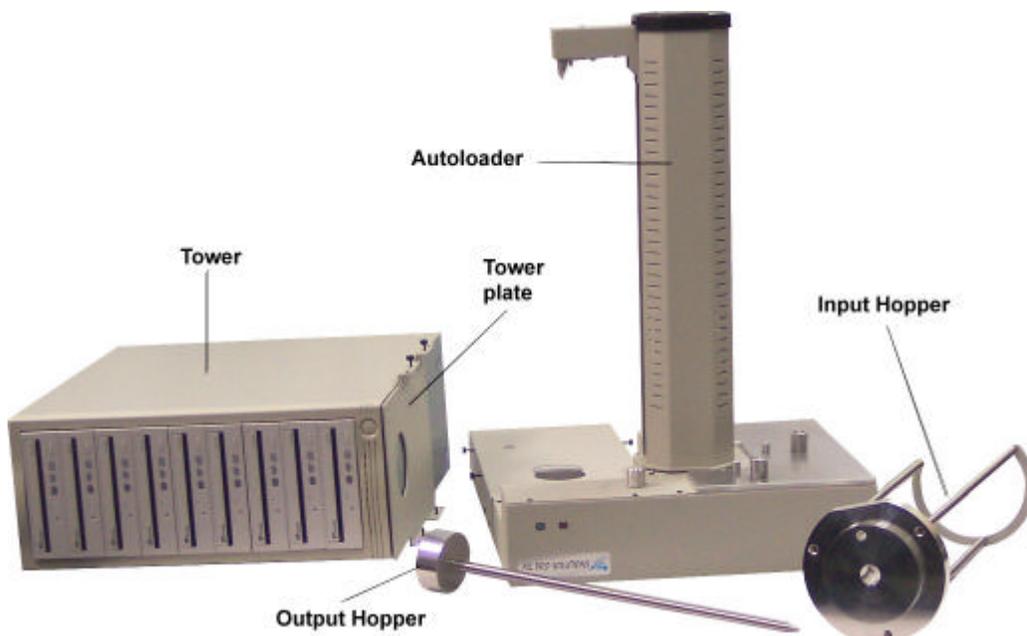


Fig.2
Tower alignment

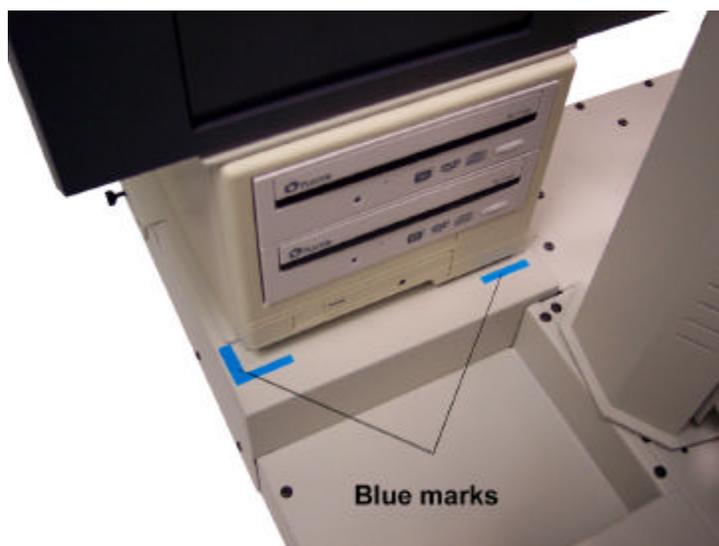


Fig.3
System assembled (no printer configuration)



Operating Environment

Your CD/DVD System should be used in a climate-controlled environment free of dirt, dust, excess humidity, excessive heat or electro-magnetic interference.

Allow at least four (4) inches of clearance around the sides and back of the system for ventilation.

COM1/COM2 Port Settings

? *To add a COM Port:*

Click *Start*, move up to *Settings* and click *Control Panel*. Click *Add/Remove hardware* and then *Next*. Highlight *Add/Troubleshoot a device* and click *Next*. Select *No, I want to select the hardware from a list* and click *Next*. Highlight *Ports* and click *Next*. Highlight *Communication Port* and Click *Next*.

? *COM1/COM2 Configuration for Windows XP/2000*

Click *Start*, move up to *Settings* and select *Control Panel*. Once *Control Panel* is open, double click on *System* icon, choose *Hardware* tab and click on *Device Manager*. Click on *Ports*, choose *Communication Port[COM1/COM2]* and click on *Port Settings*.

Set *Port Settings* as follows:

Bits per second: 9600
Data Bits: 8
Parity: None
Stop bits: 1
Flow control: Xon / Xoff

Set *Resources* tab as follows:

Input/Output Range: 02F8 – 02FF
Interrupt Request: 03

Connecting power

Plug one power cable into the tower system, one into the autoloader and another one into the printer. Plug each power cable into the proper power source and connect all the other cables as shown in:

- Fig 4b or 4d for system configured with Signature Z6 printer (page 7, 8)
- Fig 5b or 5d for system configured with Rimage Prism Plus printer (page 9, 10)
- Fig 6b or 6d for system configured with Pro III printer (page 11, 12)
- Fig 7b or 7d for system configured with HP printer (page 12, 13)
- Fig 8b or 8d for system configured with Teac P55 printer (page 14, 15)
-

The power On/Off switch for the tower is located in the front and the one for the autoloader is located in the back. Power the tower on first, then turn on the autoloader and if a printer is present, turn that on last. You are now ready to align the autoloader arm to the tower drives.

Fig. 4a
System configured with Signature Z6 printer



4 drives and Z6 printer



2 drives and Z6 printer

Fig. 4b
System configured with 2 or 4 drives and Z6 printer
(back view – cables)

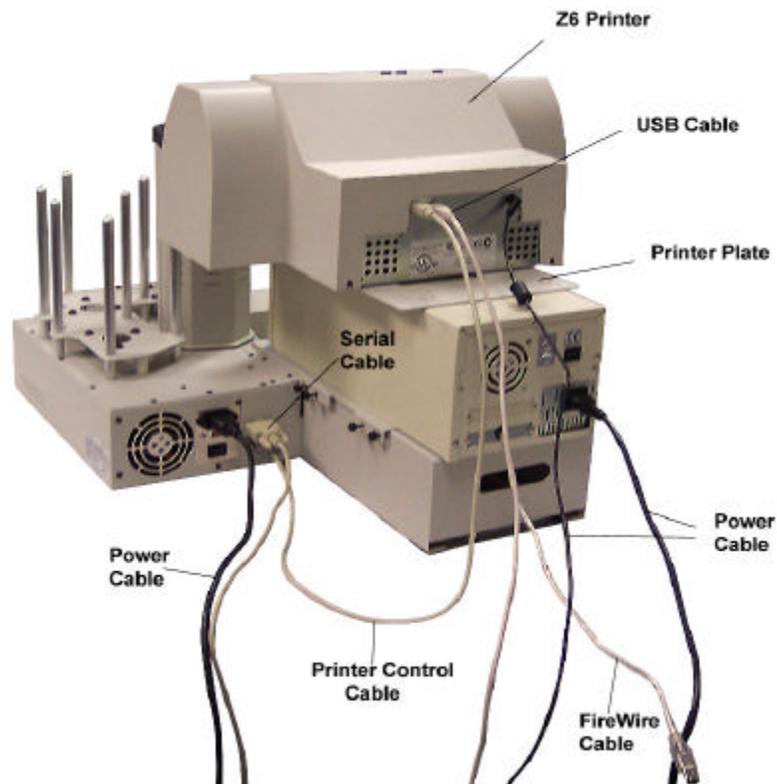


Fig. 4c
System configured with 7 drives and Signature Z6 printer



Fig. 4d
System configured with 7 drives and Z6 printer
(back view – cables)

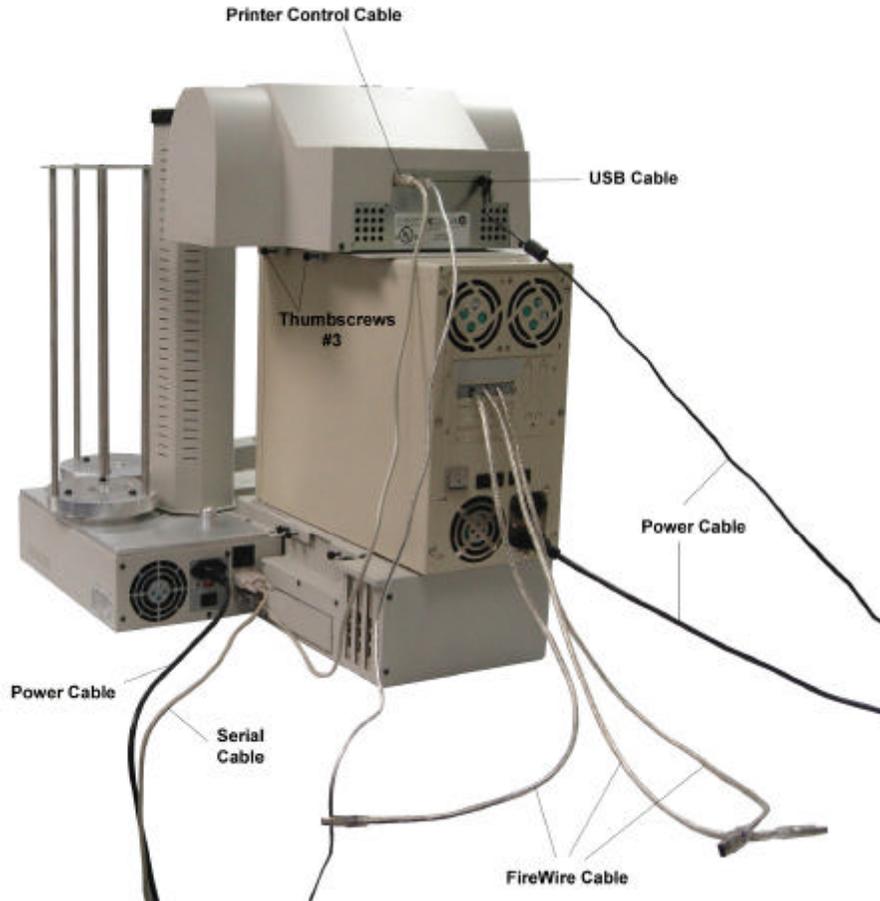


Fig. 5a
System configured with Rimage Prism Plus printer



4 drives and Rimage Printer



2 drives and Rimage Printer

Fig. 5b
System configured with Rimage Prism Plus printer
(back view – cables)

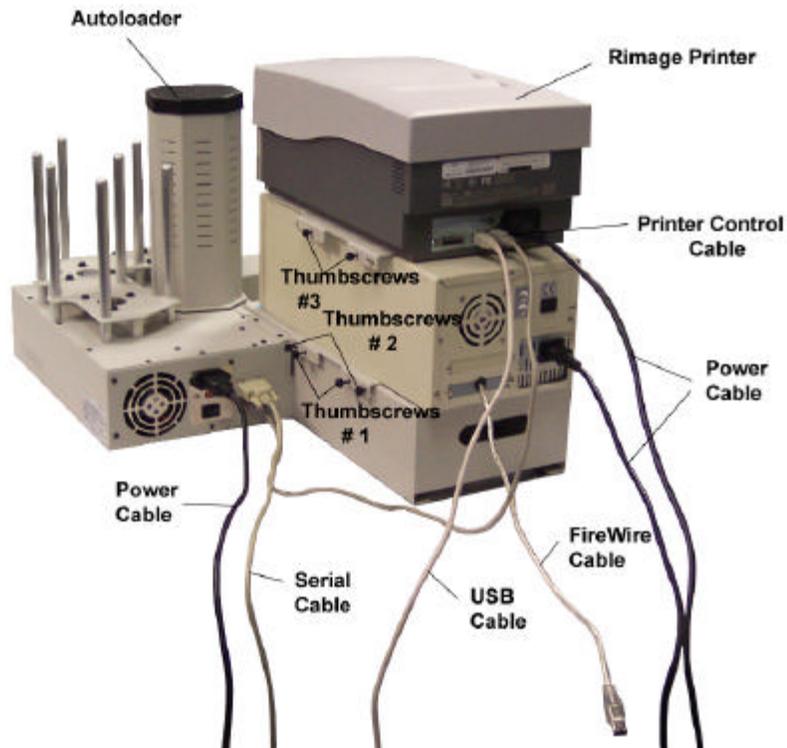


Fig. 5c
System configured with 7 drives and Rimage printer



Fig. 5d
System configured with 7 drives and Rimage Prism Plus printer
(back view – cables)

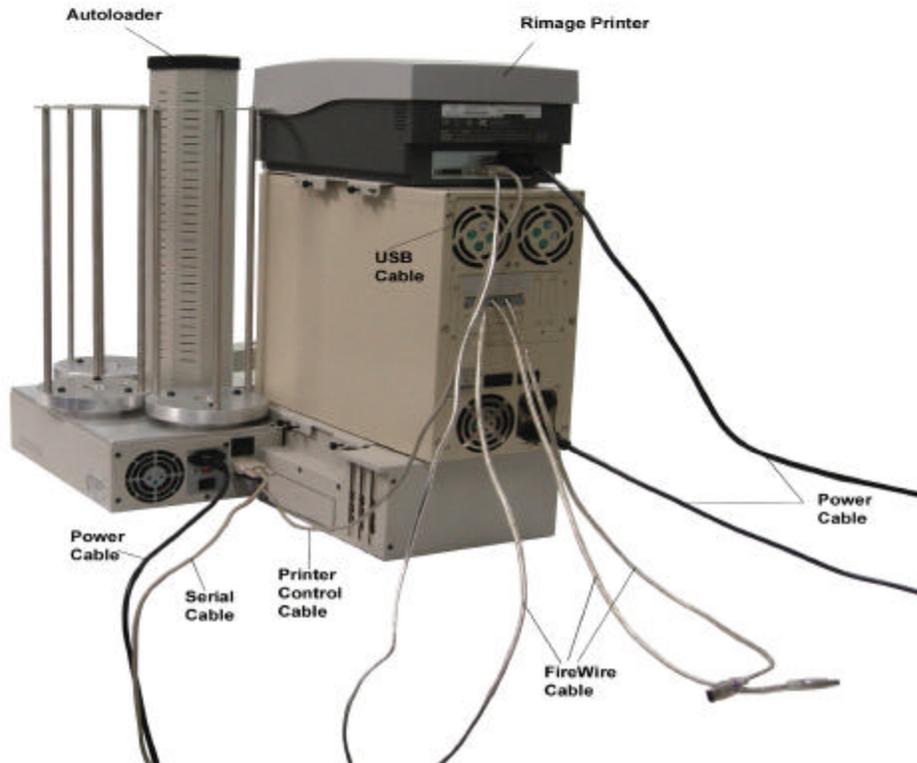


Fig. 6a
System configured with Pro III printer



4 drives and Pro III Printer



2 drives and Pro III Printer

Fig. 6b
System configured with Pro III printer
(back view – cables)

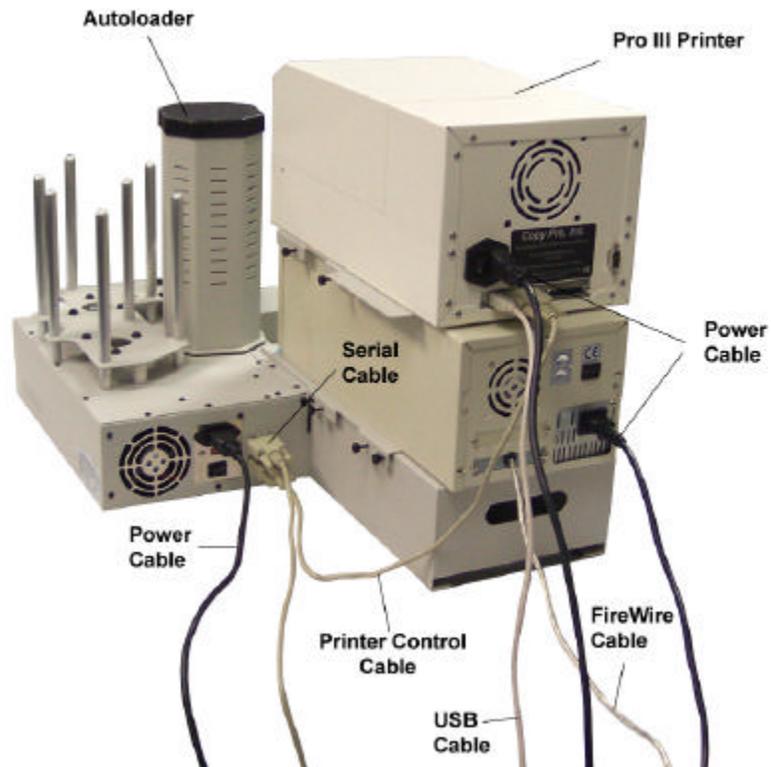


Fig. 6c
System configured with 7 drives and Pro III printer



Fig. 6d
System configured with 7 drives and Pro III printer
(back view – cables)

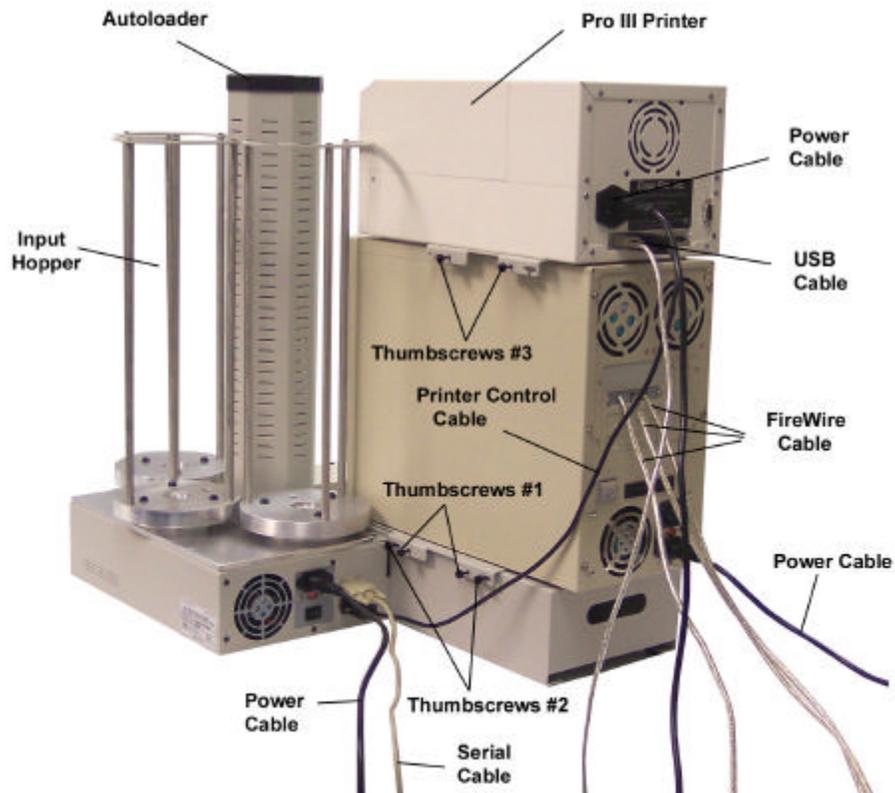


Fig. 7a
System configured with HP printer



4 drives and HP Printer



2 drives and HP Printer

Fig. 7b
System configured with HP printer
(back view – cables)

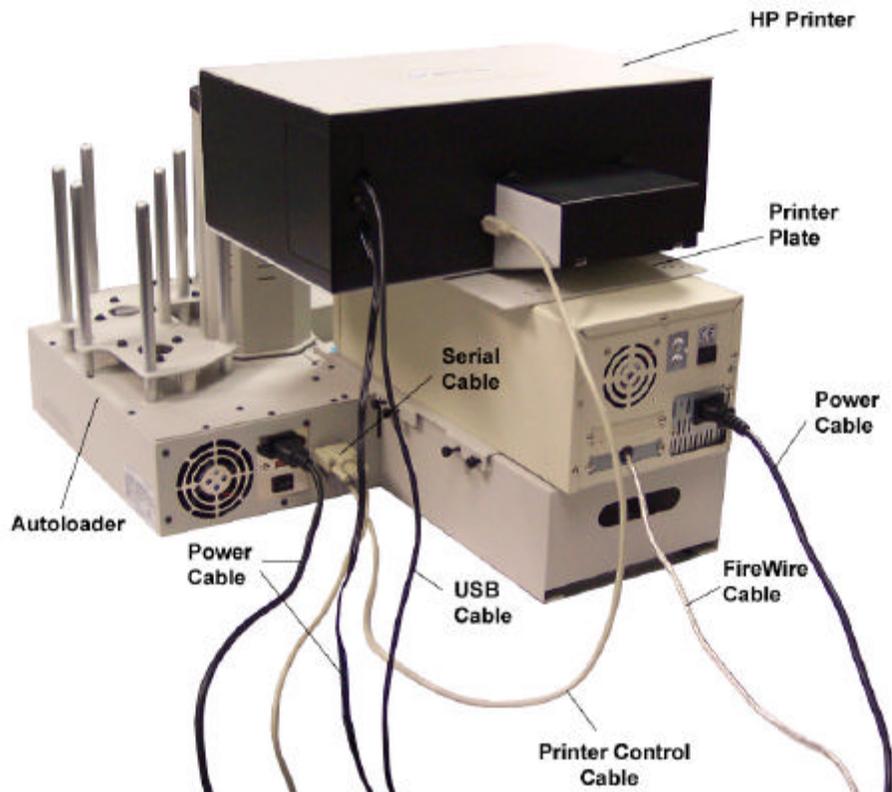


Fig. 7c
System configured with 7 drives and HP printer



Fig. 7d
System configured with 7 drives and Pro HP printer
(back view – cables)

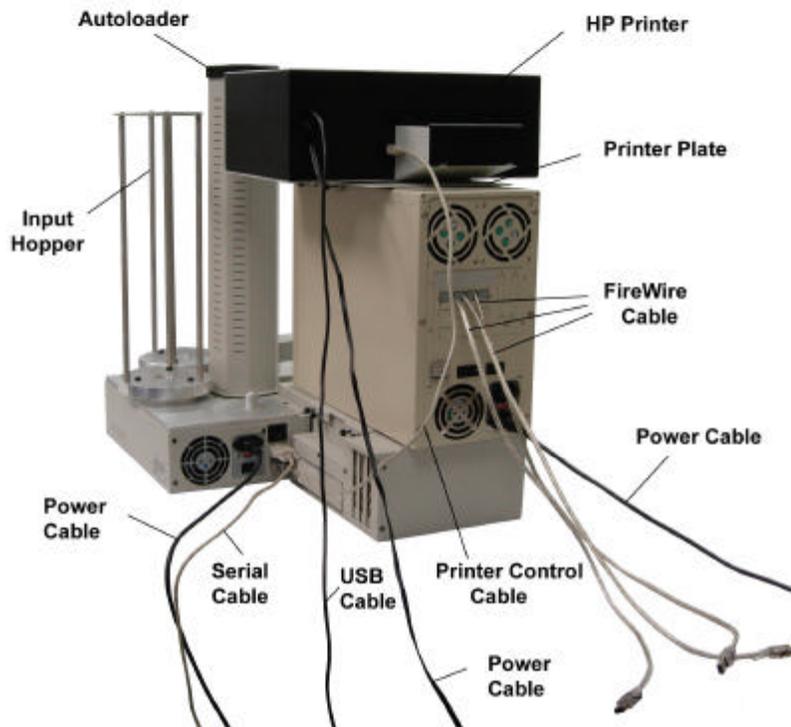


Fig. 8a
System configured with Teac P55 printer



4 drives and Teac P55 Printer



2 drives and Teac P55 Printer

Fig. 8b
System configured with Teac P55 printer
(back view – cables)

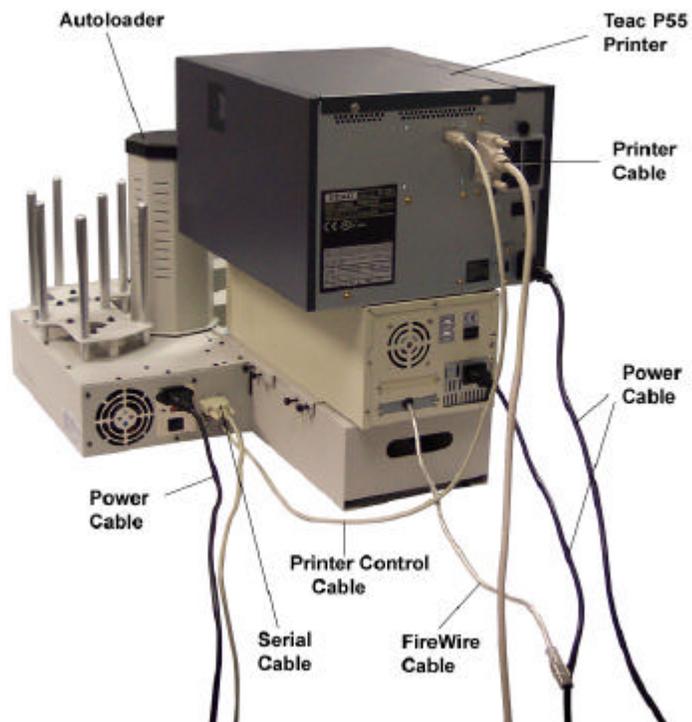
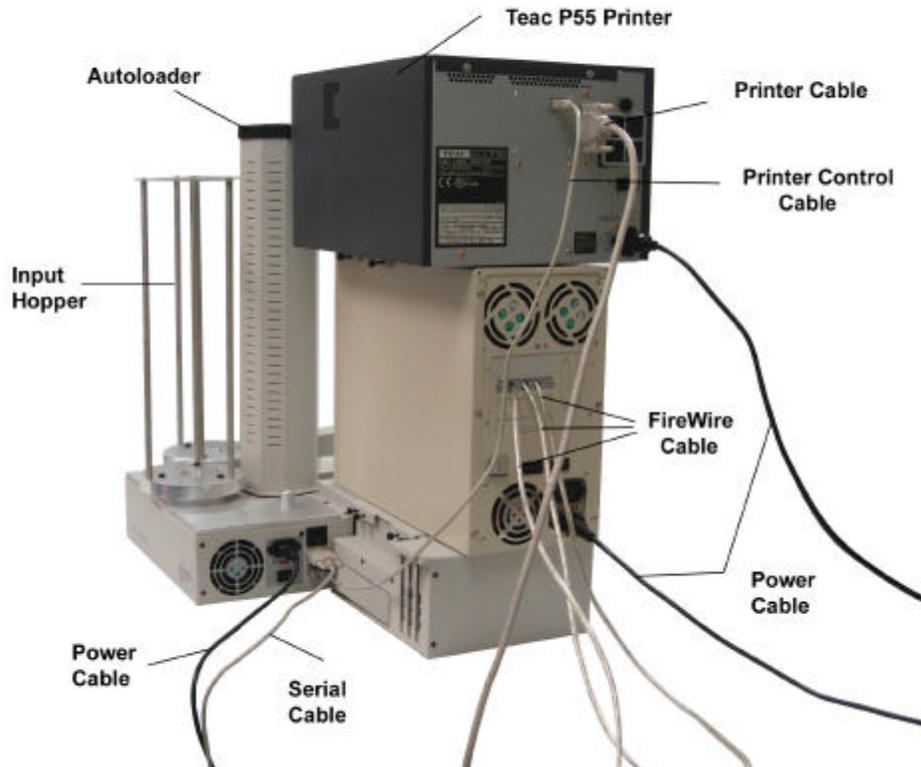


Fig. 8c
System configured with 7 drives and HP printer



Fig. 8d
System configured with 7 drives and Teac P55 printer
(back view – cables)



Drive and Printer alignment

Make sure the autoloader is turned off.

Click on *Start*, then *Programs*, then *Accessories*, then *Communications* and then *Hyper Terminal*.

Choose a name for the connection. In the *Connect to* window select *Connect using: Direct to COM1/COM2*.

In the *COM1/COM2 Properties*, make sure you have the following settings:

Bits per second: 9600

Data Bits: 8

Parity: None

Stop bits: 1

Flow control: None

Click OK.

Now, turn the autoloader on and in the Hyper Terminal window you should see *Stepper Controller*. Press “Caps Lock” tab and then C once for the autoloader to do its short movement. Open top drive manually, place discs in the input hopper and use the following commands:

I = insert - autoloader will load the disc into the drive. If the disc was placed in the right position, press

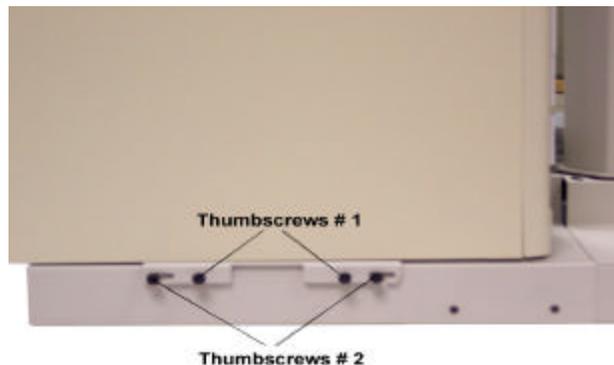
A = accept to finish the alignment

Tight gently thumbscrews # 1 on both sides until they touch the adapter and then tight thumbscrews # 2 (they consolidate the tower on the adapter – see Fig.9)

In case you don't have good alignment, adjust the tower (left and right, back and forth) and repeat the steps above until you obtain the right alignment.

If your system is configured with a printer, repeat the above steps using the printer. If printer alignment is OK, tight thumbscrews # 3 (located on the printer plate – see Fig.5b – same for all printers)

Fig. 9
Side View



Operation

Install DiscJuggler Software on your computer following instructions in the User's Guide (pdf file on "Save the Forest" disc)

Before using the software, you have to assign all the autoloader drives. Please do the following:

Click Programs, then DiscJuggler and double click on Drive Assigner. Select all the autoloader drives, click "Update" and then OK. Now you're ready to use your fully automated system.

Please keep in mind, this operation has to be done every time you start the system.

Printer Support

Step 1: Install the printer driver

Step 2: Install Label designer software that came with your printer as follows:

- "Sure Thing" for Signature Z6 printer
- "CD Designer" for Rimage Prism Plus printer
- "CD Painter" for Pro III and HP printers
- "Disc Label Editor" and "Teac Patch" for Teac P55 printer (to enable "Print to File" feature for automated printing on the Teac P55 printer, you will have to run the Registry Patch called "Teac Patch" provided with your printer)

To create your label file you may import any graphics (JPEG, BMP, GIF, TIF) into your software. Follow instructions in your Printer User Manual.

Step 3: Once you're satisfied with the layout of your label, please convert it into a .prn File (to be used in connection with the autoloader) as follows:

1. Open your label file
2. Select "Print" from the File Menu
3. Check "Print to file" box on your screen and click OK

"Print to File" window pops-up; type the name of your file, choose the location for your .prn file and click OK

Step 4: Run DiscJuggler and select *Tools* from Menu tab, then click on *Options* and select *Autoloader* tab. In the *Good Label* box, browse to your "prn" file and select it.

For more instructions on operation, please see DiscJuggler, and your printer User Manuals.