

CRU DataPort™
Enclosure
User's Guide



Congratulations on your purchase of a CRU DataPort™ 2 or 4 bay enclosure.

Our family of 2 and 4 bay enclosures for data storage devices comes in many configurations and are equipped with certified power supplies.

CRU has the enclosure to solve your data storage needs. CRU is able to provide the solution that fits your requirements.

FEATURES AND OPTIONS

- ✓ 5.25" bays for easy mounting of half height and low profile drives
- ✓ Easy to install and fully customizable
- ✓ Hot swappable with CRU backplanes or DataPorts™
- ✓ RAID ready
- ✓ Ultra quiet fans for outstanding cooling
- ✓ Audio Output jacks (2 Bay only)
- ✓ UL certification
- ✓ Interfaces: Ultra II, Ultra 160
- ✓ Controlled impedance Ultra 320 compatible cables
- ✓ External SCSI ID switches

CRU 2 BAY ENCLOSURE

CRU's two bay enclosure is available in the following Ultra II and Ultra 160 configurations:

- 2 bay kit for Hard Disk Drive, CD, CDR, or DVD installation
- With two DataPorts™ in Ultra F/W and utilizing CRU's backplane technology for Ultra II configurations with 68-pin hard drives
- With two Ultra 160 SCA (80 pin) DataPorts™ utilizing CRU's backplane technology
- With CRU's DataPort™ 3n2 Ultra 160 Raid Ready enclosure which allows you to mount three low-profile ultra 160 SCA drives in two half-height bays

Half Height Drive Installation (2 Bay HDD, CD, CDR, DVD Kit only)

1. Remove outer cover by removing the three screws from the rear of the enclosure (see Figure 2). Remove filler plates from the inside of the front bezel by snapping them out.
2. Mount supplied rails to the device being installed using the screws provided. (Figure 1)
3. Slide the device with rails attached into an open bay of the enclosure. Line up holes and using the supplied screws, attach the drive to the enclosure from the outside. (Figure 1)
4. Locate a 4-pin DC power cable from the power supply and gently insert the plug into the power connector on the rear of the drive ensuring it is fully seated. The plug is keyed and can only be inserted one way. (Figure 5)
5. Connect the supplied 68-pin twist and flat Ultra 320 compatible cable to the I/O connector on the rear of the drive. (Figure 5)
6. Repeat steps 2 thru 5 for each drive or device installed.

SCSI ID Selector Switch:

Each CRU enclosure is equipped with external SCSI ID selector ID switches located on the rear panel, which allows you to externally set the SCSI device. There are two buttons on each switch for increasing or decreasing the SCSI identification number.

1. Locate the SCSI ID header on the device. Refer to the installation instructions from the device's manufacturer to locate the SCSI ID header or jumper block. It is usually a six pin, dual row pin header located either on the rear of the device or the component side of the drive. (Figure 5)
2. Remove any jumpers or shunts located on the SCSI ID pins. Be careful not to remove any jumpers other than those for the SCSI ID.
3. Connect the supplied BCD cable to the SCSI header. The BCD cable has five wires divided into two connectors as shown in Figure 5. The connector with three wires links to the hot side of the SCSI header ensuring the wire with the red dot is connected to pin 1. The connector with two wires links to the ground pins of the SCSI header.
4. Set the SCSI ID using the buttons on the switch located on the rear of the enclosure. (Figure 2)
5. Repeat steps 1 thru 4 for each device installed.

Final assembly instructions

- A. Once device installation is complete, re-install the enclosure's top cover and connect power cable to the rear of the enclosure and a standard 110v power source.
- B. Connect external cable and terminator to the data connection ports on the rear of the enclosure. (Figure 2)
- C. Turn the enclosure on by depressing the power, switch located on the front bezel and allow drives to spin up before turning on host computer.

Figure 1

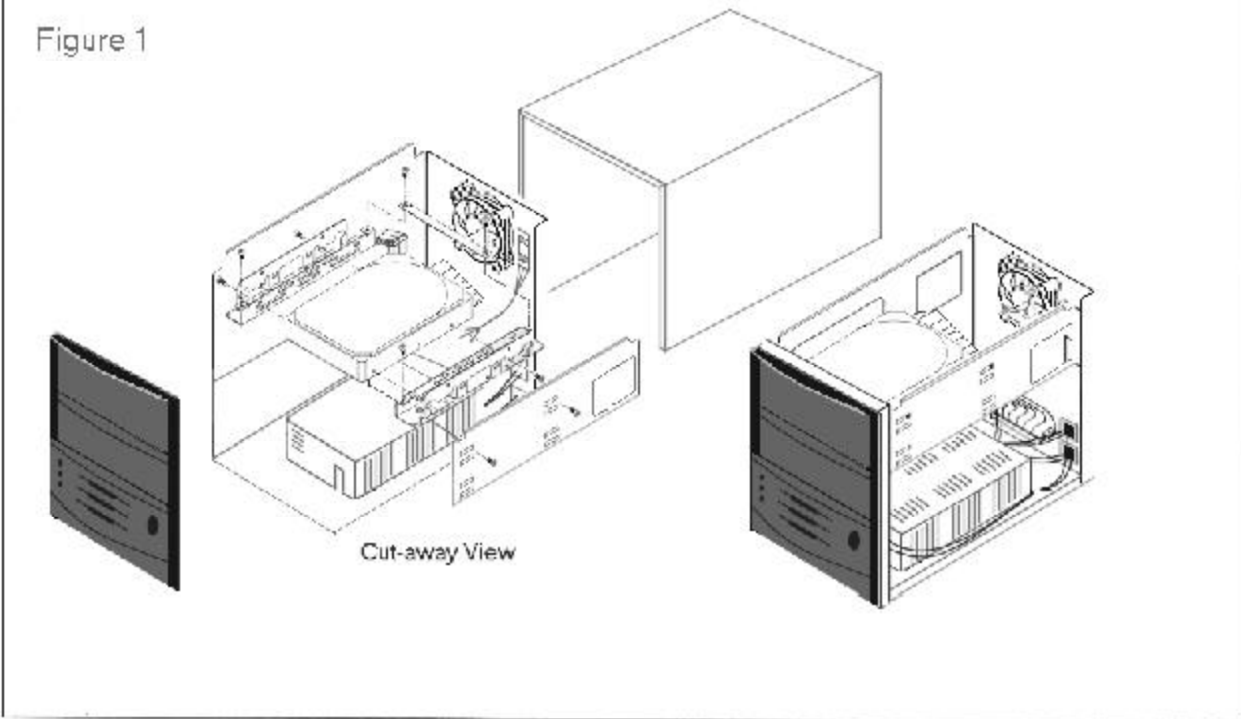
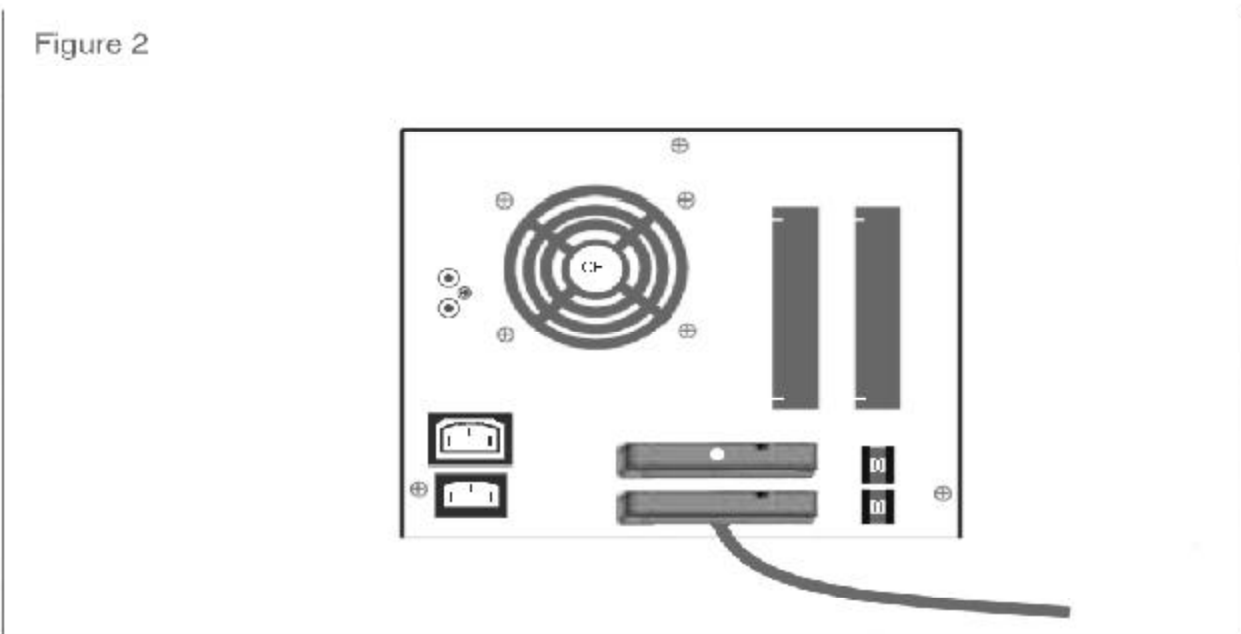


Figure 2



DataPort™ and DataPort™ 3n2 Installation Instructions

CRU's 2 bay enclosures with patented back plane technology and Dataports for 2 half – height or low profile drives, or the 2 bay raid ready enclosure with integrated Dataport 3n2 for three low-profile SCA drives, combined with your raid controller or SCSI HBA and SCSI hard drives includes everything you need to add the additional storage capacity you require. Refer to the supplied users manual for hard drive installation instructions and additional set up procedures.

CRU 4 BAY ENCLOSURE

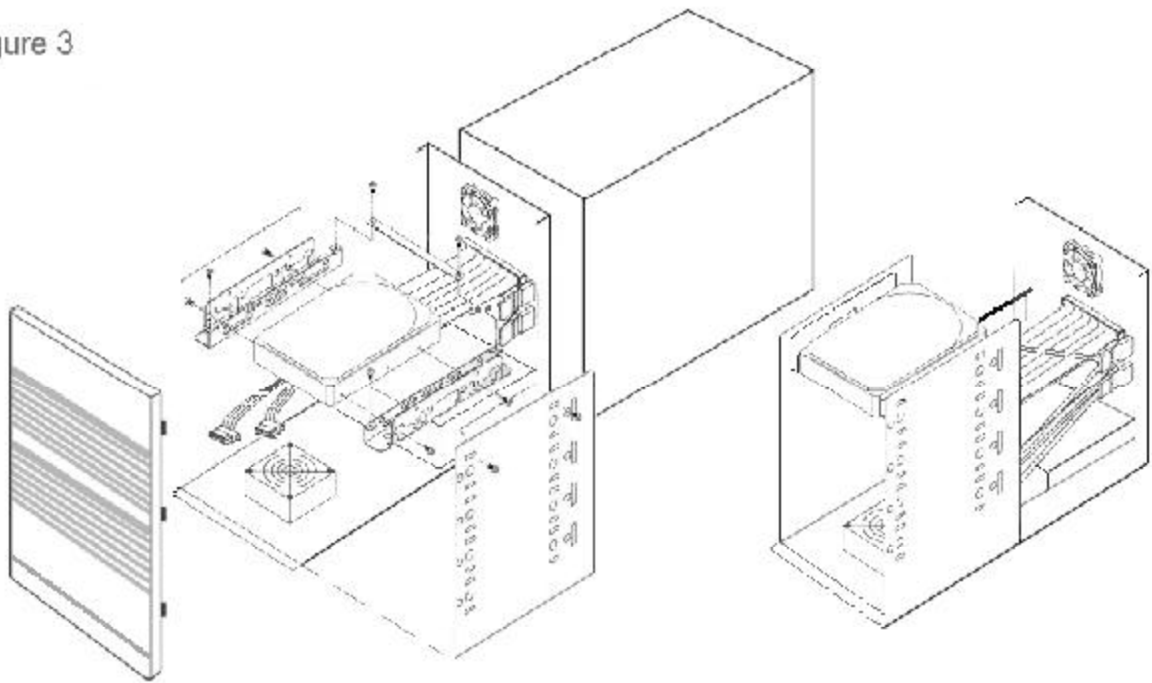
CRU's 4 bay enclosure is available in the following Ultra II, and Ultra 160 configurations.

- 4 bay kit for HDD only installation
- With four Ultra F/W for Ultra II
- With four Ultra 160 SCA DataPorts utilizing CRU's patented backplane technology
- With 2 DataPort™ 3n2 Ultra 160 Raid Ready enclosures, which allows you to mount six low-profile Ultra 160 SCA drives in four half-height bays.

Half Height Drive Installation (4 Bay HDD)

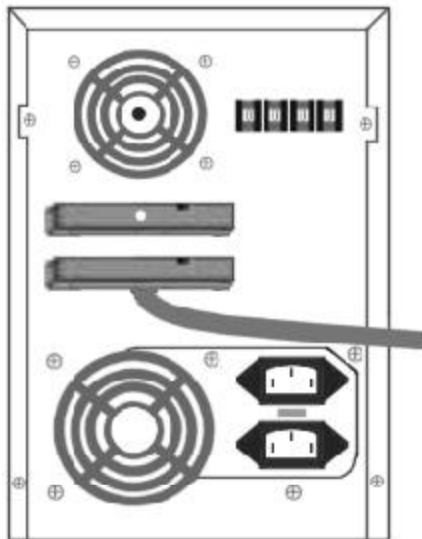
1. Remove outer cover by removing the three screws from the rear of the enclosure (Figure 4). Remove filler plates from the inside of the front bezel by snapping them out.
2. To use individual HDD LED indicators remove and replace the cut-out bezel with the non-cut out version supplied with the kit. Gently insert a small regular screwdriver into the four slots located inside the frame of the enclosure and pry the tabs away from the frame. To install the new bezel line up tabs and snap into place. (Figure 6)
3. Mount supplied rails to the HDD using the screws provided. (Figure 3)
4. Slide the HDD with the rails attached into an open bay of the enclosure. Line up holes and using the supplied screws, attach the drive to the enclosure from the outside. (Figure 3)
5. Locate a 4-pin DC power cable from the power supply and gently insert the plug into the power connector on the rear of the drive ensuring it is fully seated. The plug is keyed and can only be inserted one way. (Figure 5)
6. Insert HDD power indicator into the slots on the front of the non-cutout bezel and attach to drive. (Figure 6)
7. Connect the supplied 68-pin twist and flat Ultra 320 compatible cable to the I/O connector on the rear of the drive. (Figure 5)
8. Repeat steps 2 thru 7 for each HDD installed.

Figure 3



Cut-away View

Figure 4



SCSI ID Selector Switch:

Each CRU enclosure is equipped with external SCSI ID selector switches located on the rear panel, which allows you to externally name the SCSI device. There are two buttons on each switch for increasing or decreasing the SCSI identification number.

1. Locate the SCSI ID header on the device. Refer to the installation instructions for the device to locate the SCSI ID header or jumper block. It is usually a six pin, dual row pin header located either on the rear of the device or the component side of the drive. (Figure 5)
2. Remove any jumpers or shunts located on the SCSI ID pins. Be careful not to remove any jumpers other than those for the SCSI ID.
3. Connect the supplied BCD cable to the SCSI header. The BCD cable has five wires divided into two connectors as shown in Figure 5. The connector with three wires links to the hot side of the SCSI header ensuring the wire with the red dot is connected to pin 1. The connector with two wires links to the ground pins of the SCSI header.
4. Set SCSI ID using the buttons on the switch located on the rear of the enclosure.
5. Repeat steps 1 thru 4 for each device installed.

Final assembly instructions

- A. Once HDD installation is complete re-install top cover and connect power cable to the rear of the enclosure and a standard 100V power source.
- B. Connect external cable and terminator to the data connection ports on the rear of the enclosure. (Figure 4)
- C. To begin enjoying your new CRU enclosure: Turn the enclosure on by depressing power switch located on the front bezel and allow drives to spin up before turning on host computer.

Figure 5

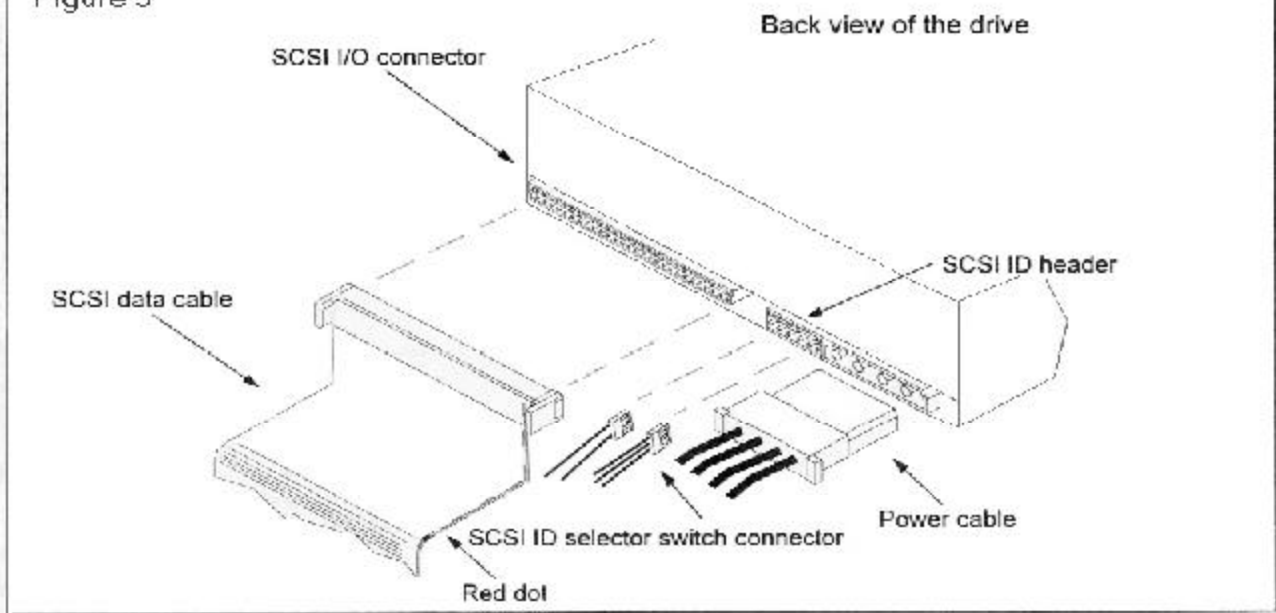
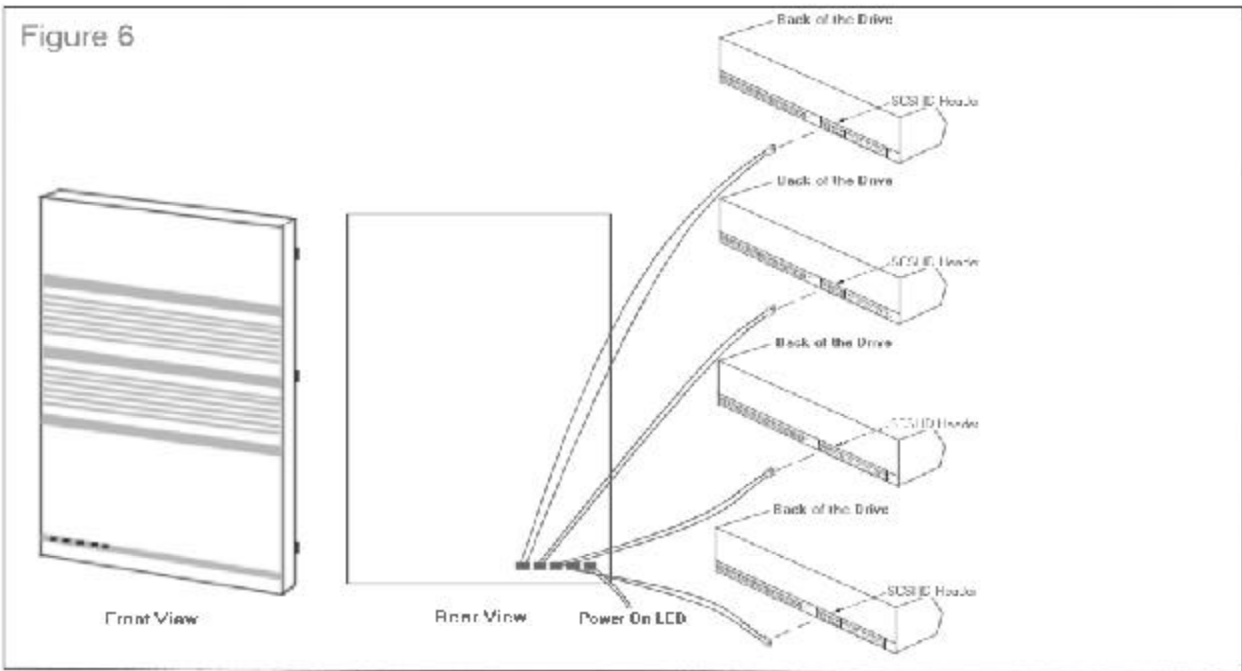


Figure 6



Trouble Shooting

Beside the fan is a jumper. This jumper is used to disable the fan alarm. Remove the jumper to disable the alarm should the fan fail. Contact CRU-DataPort at 800-260-9800 for a replacement fan.

On the right side of the back of the board is a 5-pin white connector. This is a proprietary connector for setting the SCSI ID. For more details contact CRU-DataPort Technical support at 800-260-9800.

Technical Support

Contact your dealer for technical support first. If you still need assistance, then contact the CRU technical support department. You can contact CRU-DataPort's technical support department by visiting our web site at URL <http://www.CRU-DataPort.com> or sending an E-mail message to support@cruinc.com. Technical Support is also available by phone at:

(800) 260-9800 during the hours of: 7:00 AM to 4:00 PM, PST
Monday through Friday, or by FAX (360)896-1017.

When you call, please have the following information ready:

- The part number of your CRU DataPort(s)
- The manufacturer's name and model number of the hard disk drive and computer system you are using
- Any error messages that appeared on your screen
- The name of the dealer from which you purchased your CRU product(s)

Limited Product Warranty :

CRU-DataPort warrants the DataPort™ BackPlane Kit to be free of significant defects in material and workmanship for a period of one (1) year from the original date of purchase. CRU-DataPort's warranty is nontransferable and is limited to the original purchaser.

Please note: CRU-DataPort's limited product warranty is not intended to allow customers to upgrade their products to newer versions.

Material Return:

Any product being returned to CRU-DataPort, either by a distributor, dealer or an end user, for repair or replacement must be accompanied by a Return Material Authorization (RMA) number, which must be obtained by contacting CRU-DataPort's Customer Service Department at 800-260-9800. Please have these items available when requesting an RMA:

CRU-DataPort Part Number(s), and your return "Ship To" Address.

IMPORTANT: Returned material must be properly packed to avoid in-transit damage. ***Damage to CRU-DataPort products due to improper packaging will not be covered by this warranty.***

Product return packages must be labeled on the outside of the box as follows:

**CRU-DataPort, Inc.
RMA Dept./RMA #XXXX
900 SE Tech Center Drive, Suite 100
Vancouver, WA 98683**

CRU-DataPort will apply its warranty policy and issue RMA numbers based on a review of the specific circumstances of each request. CRU-DataPort will, at its sole discretion, determine if a product is valid for return to CRU-DataPort or if another remedy is applicable.

Product Remedies:

CRU's entire liability and the original purchaser's exclusive remedy for any breach of warranty, shall be, at CRU's option, either (a) return of the price paid or (b) repair or replacement of the hardware, provided that the hardware is returned to CRU, with a copy of the sales receipt or applicable documentation. Any replacement hardware will be warranted for the remainder of the original warranty period.

These remedies are void if failure of the hardware has resulted from accident, abuse, misapplication or modification. (This will be determined by CRU, Inc.)

Limitation of Liability:

The warranties set forth in this agreement replace all other warranties. CRU expressly disclaims all other warranties, including but not limited to, the implied warranties of merchantability and fitness for a particular purpose and noninfringement of third-party rights with respect to the documentation and hardware. No CRU dealer, agent or employee is authorized to make any modification, extension, or addition to this warranty. In no event will CRU or its suppliers be liable for any costs of procurement of substitute products or services, lost profits, loss of information or data, computer malfunction, or any other special, indirect, consequential, or incidental damages arising in any way out of the sale of, use of, or inability to use any CRU product or service, even if CRU has been advised of the possibility of such damages. In no case shall CRU's liability exceed the actual money paid for the products at issue.

CRU reserves the right to make modifications and additions to this product without notice or taking on additional liability. Actual credit or refund for any item returned to CRU will only be applied once the item has been received by CRU and approved to adhere to CRU's Warranty and RMA policies. RMA product(s) sent to CRU must be received within 30 days of the original RMA issue date. All products on each RMA must be shipped together.