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PROCEDURE TO CLONE A HARD DRIVE FROM AN ANILAM CONTROL

Removal of hard drive from machine's chassis

1. Pull hand down on the bottom of the hard drive on the bottom of the chassis.





This picture on the right shows the direction of how the hard drive is inserted.

3. Pull down on handle and remove hard drive.

2. Use right thumb to release the latch, push towards the hard drive handle.



Removal of hard drive from plastic holder.

1. Remove all eight rubber attachments, circled items.





Do not attempt to take off the IDE cable yet, (the grey wired cable with one red cable) that will come later.

2. Flip the hard drive over. Unscrew the four screws on the back of the metal case. This will separate the metal hard drive case with the hard drive. (The reason you could not remove the IDE cable at first was because of the circled piece.) Notice that it is on the same side as the IDE cable.





3. Carefully pull off the IDE cable. Notice which side the red lined cable on the IDE cable is corresponding to the hard drive. (The hard drive is upside down in the picture.) It is also recommended not to place the hard drive face up, but rather face down like in this picture. **Important:** If using two hard drives, remember which hard drive is the original or label each hard drives. If you wish, mark the hard drive(s), or stick a label on the hard drive(s).

Optional: Remove the four screws on the hard drive, circled. *This step is only necessary if you are going to insert and swap another hard drive*. If another hard drive is going to be swapped in the Anilam chassis, then put these four screws onto the new hard drive.

You are now ready to use the hard drive.



Software and equipment necessary to proceed with the following directions:

- 1. Buy Apricorn Universal Hard Drive Adapter
- 2. Buy Acronis True Image 11 Home.

Install Acronis True Image 11 Home with default software settings on any computer or laptop. The advantage of installing the software on a laptop is so the laptop can be put near the machining center for quick access.

After the installation of Acronis True Image 11 Home is complete, connect the hard drive you removed from the machining center to 2.5" Drive PATA Connector on the Universal Hard Drive Adapter. Read the "Connecting Your DriveWire" section in the documentation provided by the Apricorn Universal Hard Drive Adapter.

Formatting a Brand New Hard Drive

IMPORTANT: THESE FOLLOWING STEPS ARE ONLY TO BE DONE IF YOU PURCHASE A BRAND NEW HARD 2.5" DRIVE PATA HARD DRIVE.

THIS STEP IS FOR THE NEW HARD DRIVE, NOT THE ORIGINAL ONE FROM THE MACHINE. BE CAREFUL, DO NOT FORMAT THE ORIGINAL HARD DRIVE, IF YOU DO, YOU WILL NOT BE ABLE TO CLONE THE HARD DRIVE TO THE NEW HAR DRIVE!!!

Please follow these steps on this Microsoft website, for the first section ONLY... http://www.microsoft.com/windowsxp/using/setup/tips/advanced/ntfs.mspx

EXCEPT... on step 9 on Microsoft's directions, label it something else, (not Backup Drive). I am not sure where this label actually shows up in the end. Maybe label it the serial number of the machine. AND for File system: choose FAT, then click "OK".

Format E:		? ×
<u>V</u> olume label:	N8030059	
<u>F</u> ile system:	FAT	•
<u>Allocation unit size:</u>	Default	•
<u>Perform a quick for</u> Enable file and fold	nat er compression	
	OK Car	icel

You may get a message that says this:

Format E:			×
1	This volume will not be compatible with previous versions of 32 K.	Microsoft Windo	ows because the FAT file system has an allocation unit size greater than
	To continue, click OK.		
		ж Са	ancel
If you	do, please click "OK".	Format E:	×
The las "OK".	st step is the same as Step 10, click	⚠	WARNING: Formatting will erase all data on this volume. To format the volume, click OK. To quit, click Cancel.
			OK Cancel

- 1. Click "Start, right-click "My Computer", and then click "Manage".
- 2. Under "Storage" click "Disk Management".
- 3. Right-click on the right of the Disk 1 area (my computer puts it as Disk 1). [*I know it is there because of the GB size. (My hard drive is a total of 120 GB, so it is a little less than that. Also, it says Unallocated.*] A dropdown menu will appear. Click "New Partition..."



- 4. Click "Next".
- 5. Select "Primary partition", and click "Next".
- 6. If the default Partition size in MB is not the maximum size, type in the maximum size. Click "Next".
- 7. Assign the following drive letter: to E, click "Next".
- 8. Click "Next" then click "Finish".
- 10. Wait for the hard drive to finish formatting; it may take a while, depending on the size of the hard drive, probably around 30 minutes to an hour.
- 11. If you receive an message saying that it did not successfully format or something like that, click "OK".
- 12. Go back to "My Computer", locate the new hard drive. In my case it is the E: drive. Double-click the E:



- 13. If the hard drive can open and is blank, the next steps are not necessary. If there you are prompted to ask you if you need to format the hard drive, follow the following directions.
- 14. Click "Yes" and then click "Start".
- 16. Click "OK". This format will take a while, 30 minutes to an hour.
- 17. Click "OK".
- 18. Go back to "My Computer" and see if you can double click the new hard drive. If it opens to a blank hard drive, then everything is good. Please go on to the next steps. *If it does not you did not format the hard drive correctly, try again. If you try the second time to format, and you cannot open the new hard drive, then maybe the hard drive is corrupt.*

If the hard drive is already preformatted, and you successfully connect the Universal Hard Drive Adapter to the computer (with the control's hard drive connected), you can click "Cancel" when the window pops up.

If you followed the Formatting a Brand New Hard Drive steps, and have not turned off the power to the Universal Hard Drive Adapter, you can follow the next steps without worrying about the popup window.

This step can be done at a later step, but I recommend you do it first. Before starting any of the following steps, please create a folder on your computer, (maybe in "My Documents" or on the "Desktop") with the machine model, serial number and date of backup, so you know what it is. For example, I called my folder: Acer_emc2240a_N8030059_11-20-2008_hd_backup

Using Acronis True Image 11 Home Software

- Acronis True I mage Home 11.0
- 1. Double click the Acronis True Image Home 11.0 icon on your Desktop.

OR click Start, All Programs, Acronis, Acronis True Image Home, Acronis True Image Home to open the program.

Hard Disk Recovery Utilities		
Recycle Rin User's G	Acronis	🔸 🧰 Acronis True Image Home 🔸 🔊 Acronis Web Site
	Apricorn	Acronis True Image Home
Microsoft Works	🗧 🗑 Executive Software Diskeeper	🛐 Bootable Rescue Media Builder
Internet Picaca?	🚺 Anilam	•
Internet Explore Contractor Suite Ol	Miniclip Games	• • • • • • • • • • • • • • • • • • •
E-mail	🛗 Games	•
Outlook Expres: Outlook Ime	Pervasive	•
Real		
Shortcut to EL7 Sonic	•	
C Startup	•	
WolfTeam TOSHIBA	•	
TOSHIBA Applications	•	
Solitaire 🍊 Adobe Reader 7.0		
🔛 Infineon TPM Installation Guide		
Spider Solitaire 🥔 Internet Explorer		
Microsoft Office PowerPoint Viewer 2003		
Acronis True Im 🚳 Microsoft Works Task Launcher		
S MSN		
Microsoft Office 🗐 Outlook Express		
Recovery Disc Creator		
📋 Remote Assistance		
🕞 Windows Media Player		
X Windows Messenger		
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America Online	•	
Intel PROSet Wireless	•	
Start @ 0 1 m Microsoft Calculator Plus	•	Hard Dri
	2016	

- 2. After opening the Acronis True Image Home software, please click "Backup and Restore".
- 3. Click "Backup", then click "Next"
- 4. Check "My Computer", click "Next"
- 5. Check "Disks and partitions", click "Next"
- 6. This is the screen you should be at now:

reate B	ackup Wizard				<u>? ×</u>
Partitic You	ons Selection can create an image of sele	cted partitions	or an entire hard	disk drive.	-
Please se	lect the partitions or entire	hard disk drive	:5:		91 🛃 🕄
	Partition	Flags	Capacity	Used Space	Туре
Dis	k 1				
	\$ SQ004218P03 (C:)	Pri,Act.	88.49 GB	19.58 GE	NTFS
	#HDDRECOVERY	Pri,Hid.	4.673 GB	3.959 GE	FAT32 (LBA)
Dis	k 2				
	sys (E:)	Pri,Act.	1.999 GB	1.232 GE	FAT16
	PLC (F:)		10,39 GB	17.09 ME	FAT32
	STNC (G:)		43.50 GB	25.62 ME	FAT32
Creat	te an image using the sector ze: 19.58 GB	r-by-sector ap	proach	Nevts	Cancel

7. Uncheck the "check mark" next to the (C:). Note: Your (C:) will have different numbers and letters than what I have. Each hard drive is different. Then check the "check box" next Disk 2; that will automatically check all drives (E:, F:, and G:), (what we want to do.) Be sure to check the "Create an image using the sector-by-sector approach."

and a state of the second s				
Partitions Selection				
You can create an image of selec	ted partitions	or an entire hard	d disk drive.	
Please select the partitions or entire h	hard disk drive	s:		AD 🧀
Partition	Flags	Canacity	Used Space	Z IVDe
Disk 1				
(C) \$\$\$0004218P03 (C)	Pri Act	88 49 6	B 19 58 GE	NTES
	Pri.Hid.	4.673 G	B 3.959 GE	8 FAT32 (LBA)
~	2000			
Disk 2				
🔽 🍲 SYS (E:)	Pri,Act.	1.999 G	B 1.232 GE	FAT16
🗹 🥯 PLC (F:)		10,39 G	B 17.09 ME	FAT32
🗹 🥪 TNC (G:)		43.50 G	B 25.62 ME	FAT32
8 This is the next window y	ou should			
o: This is the next while wy	ou should	see:		
Create Backup Wizard		see:		
Create Backup Wizard Backup Archive Location		see:		
Create Backup Wizard Backup Archive Location Choose an existing backup file to	back up only	sec: changes that too	ok place since the bac	kup
Create Backup Wizard Backup Archive Location Choose an existing backup file to creation, or enter a file name for	back up only a new full bac	sec: changes that too kup,	ok place since the bac	skup
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Create Backup Wizard Backup Archive Location Choose an existing backup file to creation, or enter a file name for Delete Create new fold Esktop Acronis Secure Zone Backup Locations FTP Connections Backup Locations FTP Connections Acer_emc2240a_N803005 Acer_emc2240a_N803005 Acer_emc2240a_N803005 Acer_emc2240a_N803005 Acer_emc2240a_N803005 Acer_emc2240a_N803005 My Google Gadgets My Google Gadgets My Music My Pictures My Videos C:\Documents and Setti	back up only a new full bac der File Fold Free Sp Total Si:	see: changes that too kup, er_emc2240a_ ler ace: 69.15 GB ze: 88.49 GB Your comput contents er\My Document:	ok place since the bac N8030059_11-20 Folder of currently selected s\Acer_emc2240a_Na	2008_hd_ba
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At this step, you can actually create a folder if you have not created one before.

- 9. Click the "Generate name for new file" button and name your backup file. The default name is "My Backup", but you can change that name if you wish, (I recommend it). I chose it to be the same as the folder name, "Acer_emc2240a_N8030059_11-20-2008_hd_backup". Keep the Files of type as default: Backup Archives (*.tib). Then click "Next".
- 10. Check "Create a new full backup archive", then click "Next".
- 11. Check "Use default options", then click "Next".
- 12. The next screen allows you to add comments. This is optional. If you created your file name to be as specific as I created it, then this may not be necessary. Click "Next" when ready to move on.
- 13. If you want, look over the information in this next screen. It just describes what you will backup. Click "Proceed" when ready to move on begin backup of hard drive. When complete, click "OK'.

You have successfully cloned the CNC Control's hard drive to the computer.

Restoring the clone to the CNC Control's hard drive

- 1. Unplug power cable on Universal Hard Drive Adapter, unplug USB cord from computer to the Universal Hard Drive Adapter and remove the hard drive. Be careful not to bend the pins on the hard drive.
- 2. Carefully attach new hard drive to the Universal Hard Drive Adapter to the IDE cable (same way as the previous hard drive), and then plug in power cable and last the USB cord to computer (in that order). Place the hard drive upside down or have the four screws attached to the hard drive. *Do not let the bottom of the hard drive touch the table*.
- 3. If a window pops up, you can cancel it. Just to check, make sure the hard drive is recognized in My Computer. Double-click "My Computer" and see if the hard drive is recognized.
- 4. After opening the Acronis True Image Home software, please click "Backup and Restore".
- 5. Click "Restore" and then click "Next".
- 6. Locate backup file. For reference, refer to Step 8. in the Using Acronis True Image 11 Home Software directions.

Restore Data Wizard	<u>? ×</u>
Backup Archive Selection Select backup archive that contains d	lata you want to restore.
Desktop EnvEmitterEffects Favorites help igLoader Files Local Settings Logs maps My Documents Acer_emc2240a_N8030059_06-1 Acer_emc2240a_N8030059_11-2 Acer_emc2240a_N8030059_11-2 Acer_emc2240a_N8030059_11-2 Acer_emc2240a_N8030059_11-2 Acer_emc2240a_N8030059_11-2 Heroes of Might and Magic III Cor My Google Gadgets	Acer_emc2240a_N8030059_11-20-2008_hd_ This is the image backup archive. No description is available for this backup archive. Date: Thursday, November 20, 2008 12:01:45 PM Size: 779.8 MB
	< <u>Back</u> <u>N</u> ext > <u>C</u> ancel

7. Click "Next". Then select "Restore disks or partitions", and click "Next".

8. Check the checkbox besides Disk 2. It should have three partitions, SYS, PLC, an TNC with a MBR and Track 0. All of the below partitions should automatically be checked. Click "Next".

Restore	Data Wizard					? ×
Partiti Sele	on or Disk to Restore	sk drive to r	estore.			
Please se	elect a partition or a whol	e hard disk (drive to restore.		2	J 者 🛈
	Partition	Flags	Capacity	Free Space	Туре	
🔽 Dis	sk 2					
	🤹 SYS (E:)	Pri,Act.	1.999 GB	785.9 MB	FAT 16	
Image:	SPLC (F:)		10.39 GB	10.37 GB	FAT32	
Image:	🥪 TNC (G:)		43.50 GB	43.48 GB	FAT32	
	MBR and Track 0				MBR and	Track 0
	þ		< <u>B</u> ac	k <u>N</u> ext >		ancel

9. Select Disk 2, or the hard drive you want to clone. It is the one that says USB under Interface, then click "Next".

Restore Data Wizard	×I
Restored Hard Disk Drive Location Vou should select a hard disk drive for the restore.	
Please select a destination hard disk drive to restore the hard disk drive image. The hard disk drives already restored are disabled. The destination hard disk drives without enough space for restoring an image are disabled as well.	
Drive Capacity Model Interface	
Disk 1 93.16 GB FUJITSU MHV2100BH PL 0000 IDE(0) Primary Master	
n Disk 2 111.8 GB FUJITSU MHV2120AH 00A0 USB	
E: 111.8 GB NTFS	
Primary 📕 Logical 📕 Unallocated 📕 Dynamic 📕 Ungupported Volume	
Help < Back Next > Cancel	

10. Click "Yes, I want to delete all partitions...", then click "Next".

Restore Data Wizard
Non-empty Destination Hard Disk Drive
The hard disk drive you have chosen to restore from the hard disk backup archive contains some partitions.
The destination hard disk drive you have chosen contains some partitions that could contain useful data. Hard disk drive image restoring is possible only if the destination hard disk drive is empty.
Yes, I want to delete all the partitions on the destination hard disk drive before restoring.
No, I do not want to delete the partitions.
Description Select this item if you are sure that the destination hard disk drive you have chosen does not contain useful data. All the data on the destination hard disk drive will be overwritten with the data from the backup archive.
Help < Back
11. Select "No, I do not", then click "Next".
Restore Data Wizard
Next Selection Would you like to restore another partition or hard disk drive from the backup archive?
You can restore another partition or hard disk drive from the backup archive. Do you want to choose another partition or hard disk drive?
O Yes, I want to restore another partition or hard disk drive.
No, I do not.
Description Select this item if you have chosen all the partitions and hard disk drives you would like to restore and are now ready to proceed with restoration.

12. Select "Use default options", then click "Next".

Restore Data Wizard	? ×
Choose Restore Options You can use the default options for this task or modify them manually.	
Select either to run this restoration task using default options or configure the options for task on the next steps of the wizard:	this
 Use <u>d</u>efault options Set the options manually 	
Description You can use default options for this task. To change the default options, open menu <u>To</u> <u>Options</u> and make all necessary changes.	<u>ols -></u>
Help < Back	icel

- 13. Click "Proceed". Wait for the hard drive to finish formatting, it may take a while, depending on the size of the hard drive, probably around 30 minutes to an hour.
- 14. Click "OK".

Information	×
0	The operation was successfully completed.

15. **Optional:** If this windows pops up, click "Open folder to view files..." The hard drive should open with some folders and files. If you do not want to open it, click cancel. This step is one way to confirm that the hard drive works.



16. Go back to "My Computer" and see if there is are three drives that say SYS, PLC and TNC, drive present. If it looks like this, the it is good:



Putting back the hard drive into the plastic holder

1. Screw on the four screws on the hard drive if they are not already attached. This way, the hard drive can rest on the screws and not the bottom of the hard drive.



2. Plug back the hard drive and IDE cable as before. Be careful, the IDE cable can go in both ways. Refer to the pictures for reference as to how to put back the hard drive into the metal case. Notice which side the red lined cable on the IDE cable is corresponding to the hard drive. The second picture showed a circled plastic piece that should be on the bottom of the hard drive.



3. Flip the hard drive over. Notice the placement of the metal case that is the direction it needs to be in when inserting it into the plastic holder. Do not flip the position of the metal case when inserting the hard drive.



4. Place the metal case into the plastic holder as shown. The circled metal piece should be on the side of the plastic holder handle.



- 5. Flip the hard drive over again onto the metal case, (so you have an idea how it should look like after you screw in the four screws). Screw in the four screws on to the metal cover (not the four optional screws to take off, the first set of screws that was unscrewed).
- 6. Attach the eight rubber attachments. It may be easier to attach the bottom attachments first. The IDE cable should wrap around on top of the hard drive.
- 7. Insert the hard drive back into the chassis of the machine, in the same direction as you took it out. Push the plastic case up until you hear a click.



You are now ready to use the Anilam Control.

