

## **Introduction**

This utility is designed to be used by an OEM and/or end-user to backup system information and/or recover from a damaged or corrupted internal hard drive.

## **Notes**

- Extreme caution is to be used. Although a critically useful utility, if used carelessly or incorrectly, undesirable effects can occur. Please read and understand thoroughly each operation before executing.
- Restoring the HDD image will reset the hard drive to the factory default state. After restoring the image, an operator should proceed to restore the SYS, OEM, and USR Files from the last file backup (created from Main Menu Option 3, or Option 2 sub-options).
- Restoring the SYS image will reset the SYS partition to the factory default state. After restoring the image, an operator should proceed to restore the SYS Files from the last file backup (created from Main Menu Option 3, or Option 2 sub-options).
- It is recommended that Option 1 not be performed by the end user, as they will overwrite the supplied factory default image. The image could be intentionally overwritten by an OEM, however, with their custom settings and configurations applied.
- It is recommended that an end user conducts Option 3 as often as possible or necessary, in order to keep an up-to-date backup of their PLC, tables, and program files.
- A USB-type IBM compatible (PC) keyboard is required for all operations except for the default, Option 3 : Backup Machine Data, which can be done automatically without a keyboard.

## USB Recovery Disk Usage

To use the USB Recovery Disk, two things must be done :

1. Machine BIOS must have "USB-HDD" set as [**First Boot Option**]
2. USB Recovery Disk must be inserted into USB port of machine before startup

## Main Menu

Upon startup, the following menu appears on the display:

1. Create/Restore Drive Images
2. Backup/Restore Files
3. Backup Machine Data
4. Install Touchscreen Drivers
5. Exit to DOS prompt

Option 1, Create/Restore Images will take you to the following **Images Menu**. (See below)

Option 2, Backup/Restore Files will take you to the following **Files Menu**. (See below)

The default option is Option 3, **Backup Machine Data**. This action will occur automatically if another option is not selected within 20 seconds from when the menu is displayed.

This is the same as **Files Menu** -> Option 1.

## Images Menu

1. Create Image of entire HDD
2. Restore Image of entire HDD
3. Restore Image of SYS partition

\*(Each preceding "**Images**" option will take approximately 20-30 minutes to complete.)\*

## Files Menu

1. Backup SYS, OEM, and USR Files
2. Backup SYS Files
3. Backup OEM Files
4. Backup USR Files
5. Restore SYS, OEM, and USR Files
6. Restore SYS Files
7. Restore OEM Files
8. Restore USR Files

## Option Descriptions

### Create Image of entire HDD

This option will use a DOS version of the Paragon™ backup utility to create a .PBF image of the entire internal hard drive. The backup will be placed on the USB drive as C:\BACKUP\HDD\ACI\_HD.PBF. To restore this image at a later time, you would choose **Restore Image of entire HDD**. This will overwrite the default image supplied by Acu-rite Companies, Inc.

### Restore Image of entire HDD

This option will use a DOS version of the Paragon™ backup utility to restore a .PBF image of the entire internal hard drive back onto the drive. The file located on the USB drive as C:\BACKUP\HDD\ACI\_HD.PBF will be restored to the internal drive. This image can be created using **Create Image of entire HDD**, and is also supplied as a factory default image.

### Restore Image of SYS partition

This option will use a DOS version of the Paragon™ backup utility to restore a .P00 image of the SYS: partition ONLY, of the internal hard drive. The file located on the USB drive as C:\BACKUP\HDD\ACI\_0100.P00 will be restored to the internal drive's SYS: partition. This image is created as part of the process of **Create Image of entire HDD**, and is also supplied as a factory default image.

### Backup SYS, OEM, and USR Files

This option combines options 2, 3, and 4 together, and copies those specified files onto the USB drive at the specified locations. To restore these files at a later time, you would choose **Restore SYS, OEM, and USR Files** at that time. (See following individual descriptions)

### Backup SYS Files

This option will copy the files INITAB, ENVDATA.INI, and XF86Config from the internal hard drive. The backup files of INITAB and ENVDATA.INI will be placed on the USB drive as C:\BACKUP\SYS\filenames. The backup file of XF86Config will be placed on the USB drive as C:\BACKUP\XF86\XF86Config. To restore these files at a later time, you would choose **Restore SYS Files** at that time.

### Backup OEM Files

This option will copy all of the files from the O: partition of the internal hard drive. The backup will be placed on the USB drive as C:\BACKUP\OEM\foldernames\filenames. To restore these files at a later time, you would choose **Restore OEM Files** at that time.

### Backup USR Files

This option will copy all of the files from the V: partition of the internal hard drive. The backup will be placed on the USB drive as C:\BACKUP\USR\foldernames\filenames. To restore these files at a later time, you would choose **Restore USR Files** at that time.

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### **Restore SYS, OEM, and USR Files**

This option combines options 6, 7, and 8 together, and copies those specified files from the USB drive to the internal hard drive. To create these files, you would choose **Backup SYS, OEM, and USR Files**. (See following individual descriptions)

### **Restore SYS Files**

This option copies the files from the USB drive at C:\BACKUP\SYS\ and C:\BACKUP\XF86\ to the internal hard drive's SYS: partition. To create these files, you would choose **Backup SYS Files**.

### **Restore OEM Files**

This option copies the files from the USB drive at C:\BACKUP\OEM\ to the internal hard drive's O: partition. To create these files, you would choose **Backup OEM Files**.

### **Restore USR Files**

This option copies the files from the USB drive at C:\BACKUP\USR\ to the internal hard drive's V: partition. To create these files, you would choose **Backup USR Files**.

### **Install Touchscreen Drivers**

This option will copy the ELO Touchscreen drivers from the USB drive to the internal hard drive's SYS: partition.

### **Exit to DOS prompt**

This option will exit to a DOS 6.22 command prompt at the root of the USB drive.

The drive mappings will be as follows:

The **USB** drive will be referenced as **C:**

The internal hard drive's **SYS:** partition will be referenced as **D:**

The internal hard drive's **O:** partition will be referenced as **E:**

The internal hard drive's **V:** partition will be referenced as **F:**

In C:\UTILS\ there are numerous DOS utilities which can be executed manually from the command line.

\*Extreme caution should be used.\*