

HERO

*Hose Equipment
Repair Organizer*

User's Reference

Version 2.0

For Microsoft Windows 95/98/NT

Distributed by



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Chapter 1 Installation and Setup

Introduction

Thank you and congratulations for choosing HERO™. HERO™ is a user-friendly Hose Equipment Repair Organizer tool, consisting of a relational databases plus various utilities, that makes the control of fire hose inventories and ladder inventories easier, and virtually error free. Used properly, HERO™ will save time, reduce your workload and save your department money.



Hose Equipment Repair Organizer

HERO is a Single-User Application

HERO 2.x is a “Single-User” application, which means you can only have one user logged into the database at one time. The HERO application is typically installed on a local hard disk, while the database can be installed locally or on a fileserver’s network drive. Any attempt to have more than one user at a time access the HERO database will result in file corruption.

Requirements

HERO 2.x is a 32-bit program and requires a 32-bit Windows operating system such as Win95, Win98 or Win NT (3.5.1 or higher)

Minimum Requirements:

- Pentium class machine
- 16 MB RAM
- Win 95

Recommended:

- Pentium II
- 32 MB RAM
- Video capable of displaying more than 256 colors
- Windows 95/98 or Windows NT 4.0

Installation Instructions

Installing from diskettes



“setup.exe” (Disk 1)



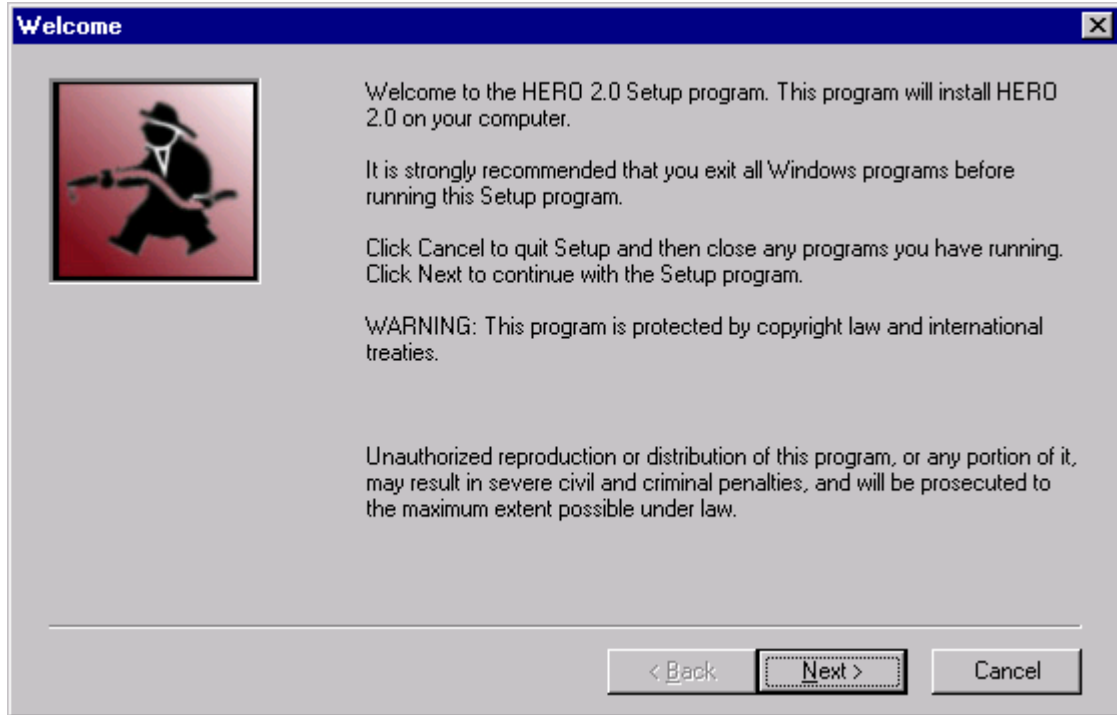
“setup.002” (Disk 2)



“setup.003” (Disk 3)

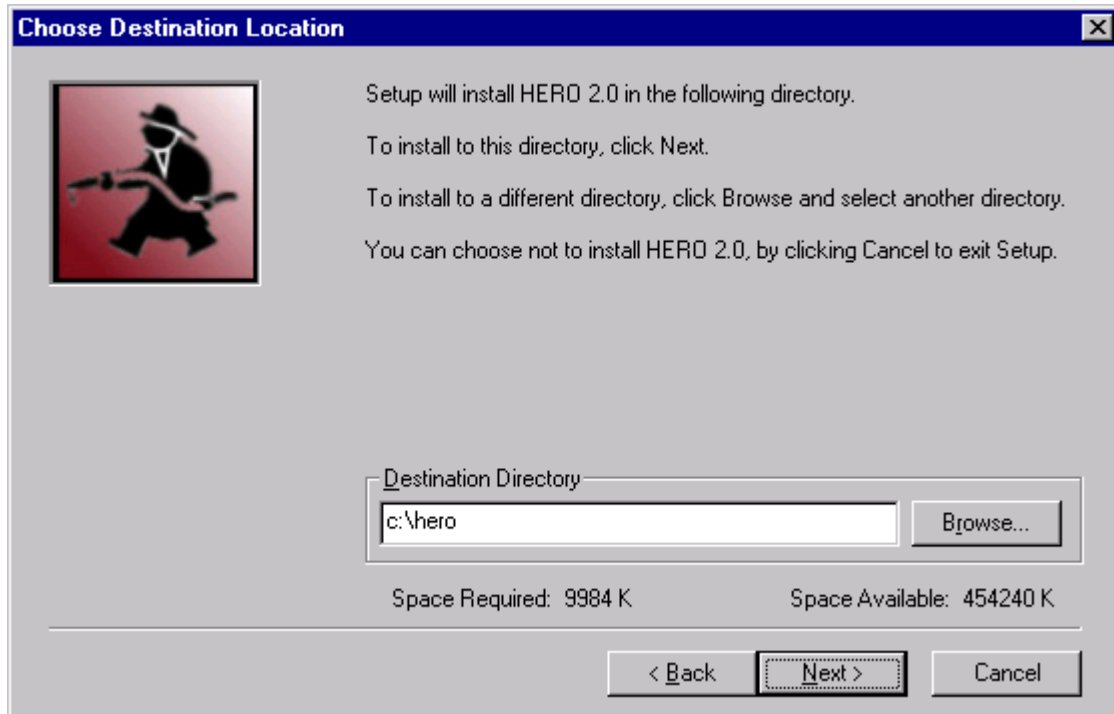
Run the setup.exe from disk 1. You can also copy the 3 files “setup.exe”, “setup.002” and “setup.003” to a folder on your hard drive and run setup.exe from there.

Welcome Screen



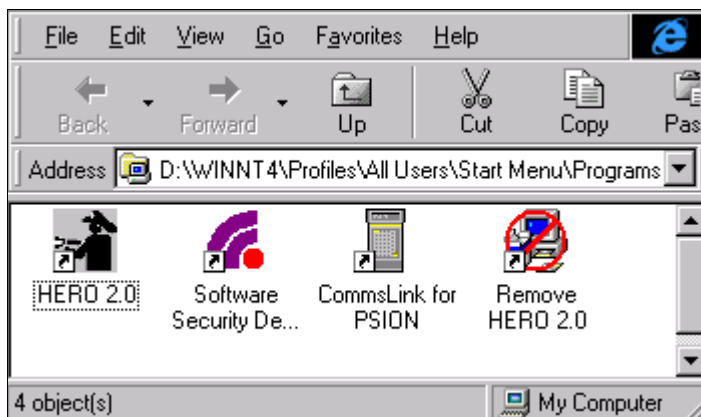
Click "Next" after you see the "Welcome" screen for the installation.

Choose Destination Location



The default installation directory is "\hero". To change the location for the installation, click on "Browse..." and choose another directory or specify a new one. Click "Next" to continue.

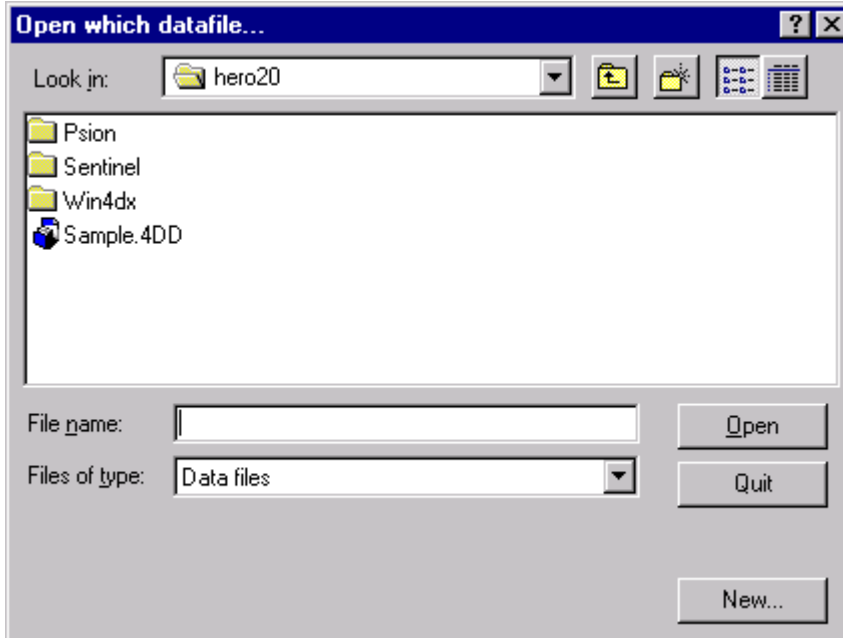
Program Group



Double-click on the HERO 2.x icon to start HERO.

Starting HERO

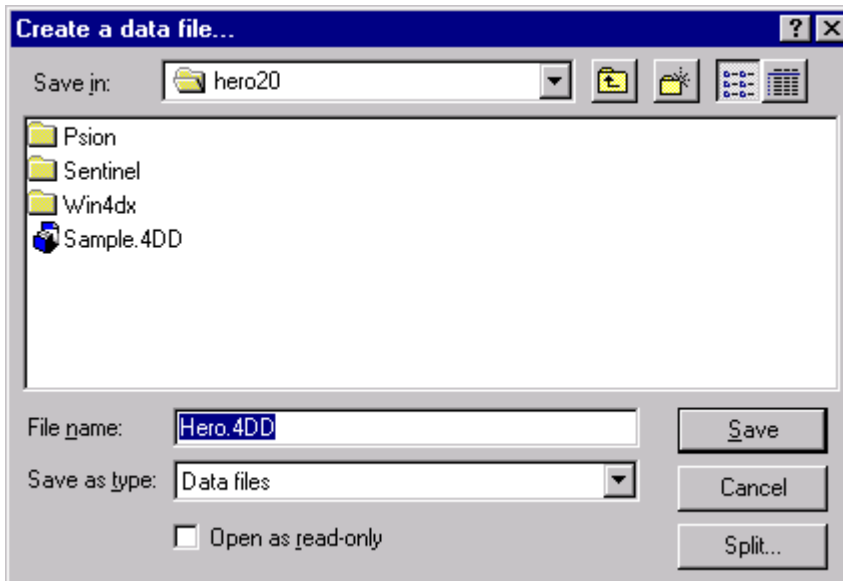
The first time you startup HERO, you will be prompted to open or create a new data file.



If this is a New Installation, click “New...” to create a new data file.

If you want to demo HERO, double-click on “Sample.4dd” to open the sample database.

The default file name for the new data file is “HERO.4DD”. The default location is the same directory the program is installed in (“\hero”).



Click “OK” or “Save” to create the new data file.

Software Security Device

HERO Version 2.x uses a Software Security Device (SSD). The SSD is called a “Sentinel SuperPro



SSD for Windows

If you do not have a SSD, you can still do the following:

- Run HERO in “Demo” mode.
- Use all functions of HERO.
- However, you are limited by the number of records you can enter to a database.

Connecting Software Security Device to the PC

Attach the SSD to your parallel port and install the driver required for your version of windows as outlined below. If you have a printer attached to your computer, connect the SSD to the parallel port on your computer and then plug your printer cable into the SSD. The SSD acts as a pass-thru for printer jobs. If you have more than one parallel port, you may attach the SSD to any of them if they are logically "LPT1, LPT2, LPT3, or LPT4".

Driver Installation

The driver allows HERO to communicate with the SSD via Windows and the parallel port. This should only have to be done once for the workstation when HERO is first installed. The Driver installer is included with the 2.x Installation. Follow the instructions below for the version of Windows you are using.

Windows 95/98 Driver Installation Procedure

Double-click the “Software Security Device Driver for Win95 or Win98” icon in the HERO 2.x Program Group to start the installation.



Select "Install Sentinel Driver" from the "Functions" menu.

Click "OK" when the "Driver installed! Restart your system." message appears. Restart Windows 95/98.

The following files have been created on your hard disk:

WINDOWS\SYSTEM\SENTINEL.VXD
WINDOWS\SYSTEM\RNBOSENT\SENTW95.EXE
WINDOWS\SYSTEM\RNBOSENT\SENTW95.DLL
WINDOWS\SYSTEM\RNBOSENT\SENTW95.HLP

Windows NT Driver Installation Procedure

Double-click the "Software Security Device Driver for WinNT" icon in the HERO 2.x Program Group to start the installation.



Select "Functions" and then "Install Sentinel Driver" from the menu bar.

A dialog box with the default path for the NT driver is displayed. Click "OK".

The Sentinel Driver and associated files are copied to the hard disk. One of the DLLs, SNTI386.DLL, SNTMIPS.DLL, SNTALPHA.DLL, or SNTPPC.DLL and SENTTEMP.HLP are copied to `\%SYSTEMROOT%\SYSTEM32`. SENTTEMP.SYS is copied to the file `\%SYSTEMROOT%\SYSTEM32\DRIVERS\SENTINEL.SYS`. `%SYSTEMROOT%` is the directory where Microsoft Windows NT has been installed.

If the driver installation is successful, a dialog box with the message "Sentinel Driver Files Copied Successfully" is displayed.

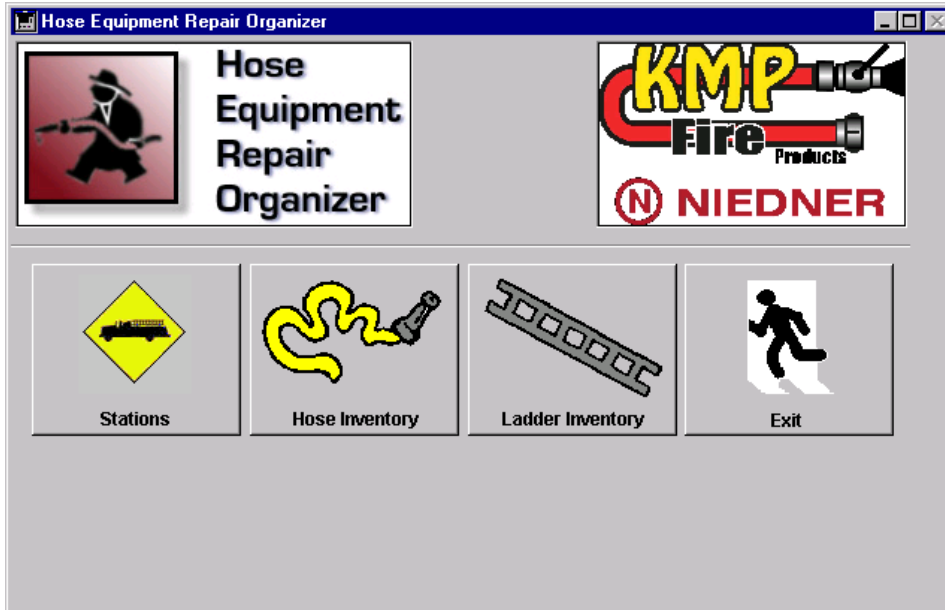
When complete, a dialog box with the message "Driver Installed! Restart your system" is displayed.

Click "OK" to continue.

Restart your computer.

Chapter 2 Data Entry

Main HERO screen



HERO has been designed to be user-friendly, with easily learned, full-screen interfaces for editing, modifying, adding, and deleting data in a consistent manner, for all databases. The following is an overview of each database:

Station:	Manages information regarding the names, addresses, contacts, telephone numbers and hose requirements (i.e., how many feet of each diameter of hose <u>should</u> be at each station).
Hose Inventory:	Manages information regarding each section of hose (with couplings), including length, diameter, type of hose, manufacturer name and date, test information, as well as a complete repair history log.
Ladder Inventory:	Manages information regarding ladders, including length, diameter, type, manufacturer name and date, test information, as well as a complete repair history log.
Exit	Exit the HERO Program.

Main Station Screen

The screenshot shows a software window titled "Station: 3 out of 3". At the top is a menu bar with icons for New, Copy, Delete, Find, Show All, Subset, Print, and Done. Below the menu bar is a search field labeled "Find Station ID:". The main area contains a table with the following data:

Station ID	Name
01	Fire Station 01
02	Fire Station 02
03	Fire Station 03

Callouts and their corresponding actions:

- Add new station.** Points to the "New" icon in the menu bar.
- Copy the selected record** Points to the "Copy" icon in the menu bar.
- Delete the selected record** Points to the "Delete" icon in the menu bar.
- Find records using Query By Example.** Points to the "Find" icon in the menu bar.
- Display all records in the** Points to the "Show All" icon in the menu bar.
- Show only the records selected** Points to the "Subset" icon in the menu bar.
- Print the selected record(s).** Points to the "Print" icon in the menu bar.
- Exit the Station window.** Points to the "Done" icon in the menu bar.
- Type in part of Station ID to find a station record.** Points to the "Find Station ID:" search field.
- Click a column header to sort list by that field.** Points to the "Station ID" column header in the table.
- Double-click on a station to edit/view the record.** Points to the first row of the table (Station ID 01).

Station Input Screen

If you double-click on a station, you will get a screen with 2 “pages”. You can select pages by clicking on the tab for the information you want to see as shown below:

The screenshot shows a window titled "Station: 02" with two tabs: "Station" and "Hose Lengths". The "Station" tab is active, displaying the following fields:

- ID:** 02
- Name:** Fire Station 02
- Address:** 4321 Broadway Street
- City:** Anytown
- State:** CA **Zip:** 90000
- Contact:** Last: Jones, First: David, Middle: R.
- Phone:** (619) 555-2121

At the bottom of the window, there is a toolbar with the following controls:

- Print the Station:** A printer icon.
- First Record in List:** A left-pointing arrow.
- Previous Record in List:** A left-pointing arrow with a vertical bar on the left.
- Next Record in List:** A right-pointing arrow with a vertical bar on the right.
- Last Record in List:** A right-pointing arrow.
- Cancel:** A button with a red 'X' icon.
- OK:** A button with a green checkmark icon.

Arrows from external labels point to these controls: "Print the Station" points to the printer icon; "First Record in List" points to the first arrow; "Previous Record in List" points to the second arrow; "Next Record in List" points to the third arrow; "Last Record in List" points to the fourth arrow; "Save changes" points to the OK button.

Main Hose Screen

The screenshot shows a software window titled "Hose: 6 out of 6". At the top is a menu bar with icons for New, Copy, Delete, Find, Show All, Subset, Bar Code, Print, and Done. Below the menu bar is a search field labeled "Find Coupling #:". The main area contains a table with the following data:

Station	Apparatus	Diameter	Length	Coupling
01	Truck 01	2.50	100.00	C00001
01	Truck 01	2.00	150.00	C00002
01	Truck 01	2.00	150.00	C00003
01	Truck 02	1.75	50.00	C00004
01	Truck 02	1.75	50.00	C00005
01	Truck 02	1.75	50.00	C00006

Callout boxes provide the following instructions:

- Add new hose. (points to the New icon)
- Copy the selected record (points to the Copy icon)
- Delete the selected record (points to the Delete icon)
- Find records using Query By Example. (points to the Find icon)
- Display all records in the [...]. (points to the Show All icon)
- Show only the records selected (points to the Subset icon)
- Barcode Inventory Screen. (points to the Bar Code icon)
- Print the selected record(s). (points to the Print icon)
- Done (points to the Done icon)
- Type in part of Coupling ID to find a hose record. (points to the Find Coupling # search field)
- Click a column header to sort list by that field. (points to the Station column header)
- Double-click on a hose to edit/view the record. (points to the first row of the table)

Hose Input Screen

Archived	Check this box if the Hose is no longer in use, but you want to keep a record of it.
Station	Station the Hose belongs to. Clicking in this field will bring up a picklist of Station ID's that have been entered in the Stations module.
Apparatus	Apparatus or location of the Hose. Clicking this field will bring up a picklist for Hose Apparatus.
Coupling #	Unique identifier for the Hose. Usually the Coupling Number.
Barcode	Bar Code attached to the Hose. Used for inventory purposes.
Length	Length of the Hose. Clicking this field will bring up a picklist for Hose Length.
Diameter	Diameter of the Hose. Clicking this field will bring up a picklist for Hose Diameter.
Type	Type of Hose. Clicking this field will bring up a picklist for Hose Type.
Manufacturer	Maker of the Hose. Clicking this field will bring up a picklist for Hose Manufacturer.
Manuf. Date	Date the Hose was manufactured.
Test Date	Date of the last Test.
Test Status	Results of the last test. Clicking this field will bring up a picklist of Hose Test Status.
Test Pressure	Pressure used in the last test. Clicking this field will bring up a picklist of Hose Test Pressure.

The Repairs “tab” shows the second screen for the hose record. Here, you can enter the repair history for any number of hoses. The buttons at the bottom of the screen are equivalent to those described above in the previous picture.

Add Hose Repairs

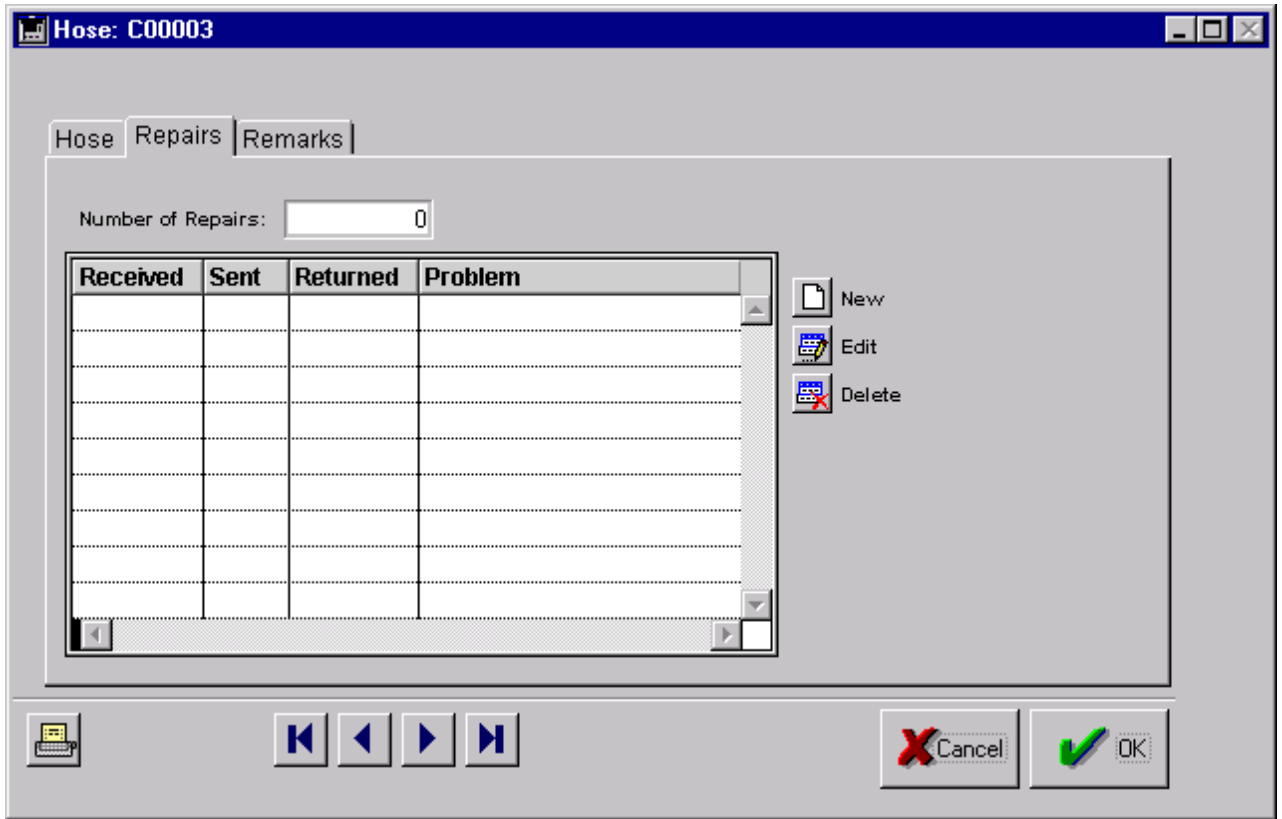
Click the New button to add a new record for a hose repair.

Modify Hose Repairs

Select an existing record by double-clicking on it, or clicking once and then clicking on the Edit button.

Delete Hose Repairs

Select an existing record by clicking on it once and then clicking on the Delete button.



The Remarks “tab” shows the third screen for the hose record. Here, you can enter any remarks about the hose.

Main Ladder Screen

The screenshot shows a software window titled "Ladder: 5 out of 5". At the top is a menu bar with icons for New, Copy, Delete, Find, Show All, Subset, Bar Code, Print, and Done. Below the menu bar is a search field labeled "Find Ladder #:". The main area contains a table with the following data:

Station	Apparatus	Type	Length	Ladder #	Construction Type
01	Truck 01	Extension	25.00	L00001	Aluminum
01	Truck 01	Extension	25.00	L00002	Aluminum
01	Truck 01	Extension	30.00	L00003	Aluminum
01	Truck 02	Extension	30.00	L00004	Aluminum
01	Truck 02	Extension	10.00	L00005	Aluminum

Callout boxes provide the following instructions:

- Add new ladder. (points to New icon)
- Copy the selected record (points to Copy icon)
- Delete the selected record (points to Delete icon)
- Find records using Query By Example. (points to Find icon)
- Display all records in the [table] (points to Show All icon)
- Show only the records selected (points to Subset icon)
- Barcode Inventory Screen. (points to Bar Code icon)
- Print the selected record(s). (points to Print icon)
- Done (points to Done icon)
- Type in part of Ladder # to find a hose record. (points to Find Ladder # field)
- Click a column header to sort list by that field. (points to Station header)
- Double-click on a ladder to edit/view the record. (points to a record in the table)

Type in part of Ladder # to find a hose record.

Click a column header to sort list by that field.

Double-click on a ladder to edit/view the record.

Ladder Input Screen

Archived	Check this box if the Ladder is no longer in use, but you want to keep a record of it.
Station	Station the Ladder belongs to. Clicking in this field will bring up a picklist of Station ID's that have been entered in the Stations module.
Apparatus	Apparatus or location of the Ladder. Clicking this field will bring up a picklist for Ladder Apparatus.
Ladder #	Unique identifier for the Ladder.
Barcode	Bar Code attached to the Ladder. Used for inventory purposes.
Length	Length of the Ladder. Clicking this field will bring up a picklist for Hose Ladder.
Type	Type of Ladder. Clicking this field will bring up a picklist for Ladder Type.
Construction Type	Construction Material of the Ladder. Clicking this field will bring up a picklist for Ladder Construction Type.
Manufacturer	Maker of the Ladder. Clicking this field will bring up a picklist for Ladder Manufacturer.
Manuf. Date	Date the Ladder was manufactured.
Last Date	Date of the last Test.
Test Type	Type of Test performed. Clicking this field will bring up a picklist of Ladder Test Type.
Test Status	Status of the last test. Clicking this field will bring up a picklist of Ladder Test Status.

The Repairs “tab” shows the second screen for the ladder record. Here, you can enter the repair history for any number of ladders. The buttons at the bottom of the screen are equivalent to those described above in the previous picture.

Add Ladder Repairs

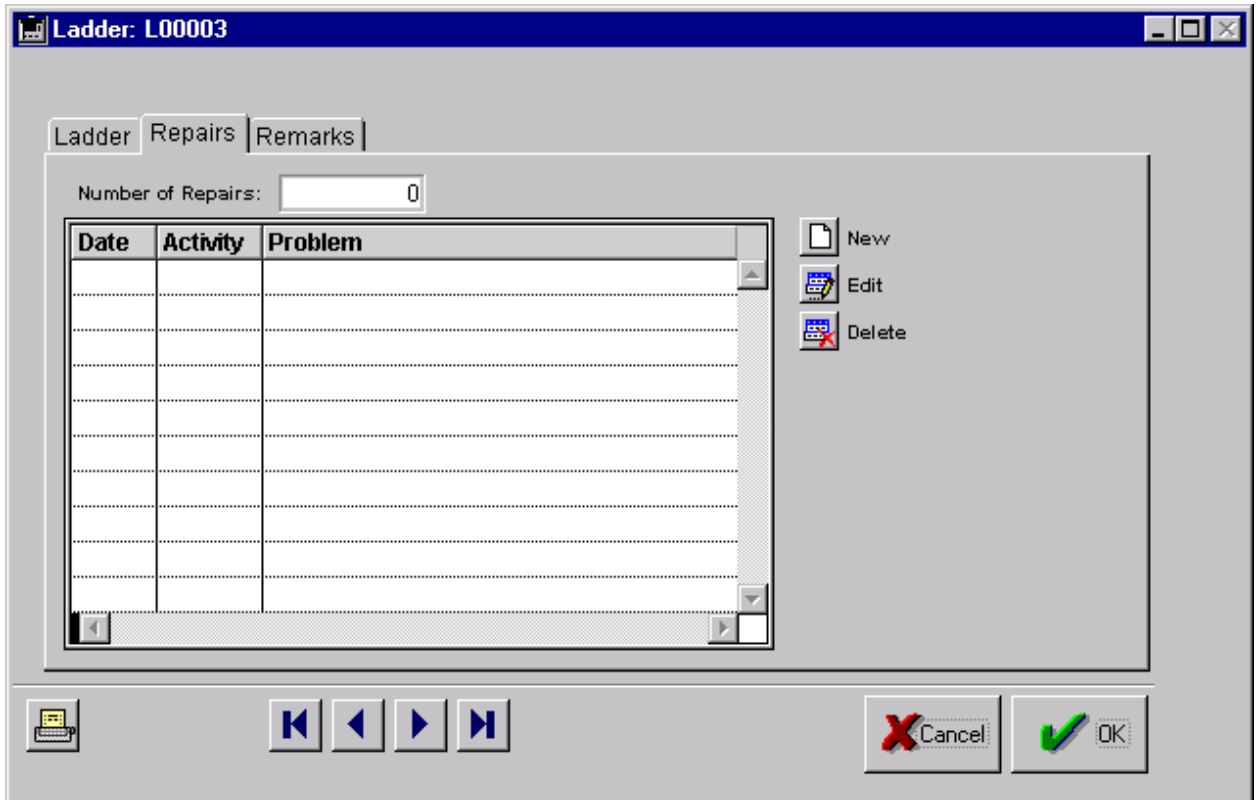
Click the New button to add a new record for a ladder repair.

Modify Ladder Repairs

Select an existing record by double-clicking on it, or clicking once and then clicking on the Edit button.

Delete Ladder Repairs

Select an existing record by clicking on it once and then clicking on the Delete button.

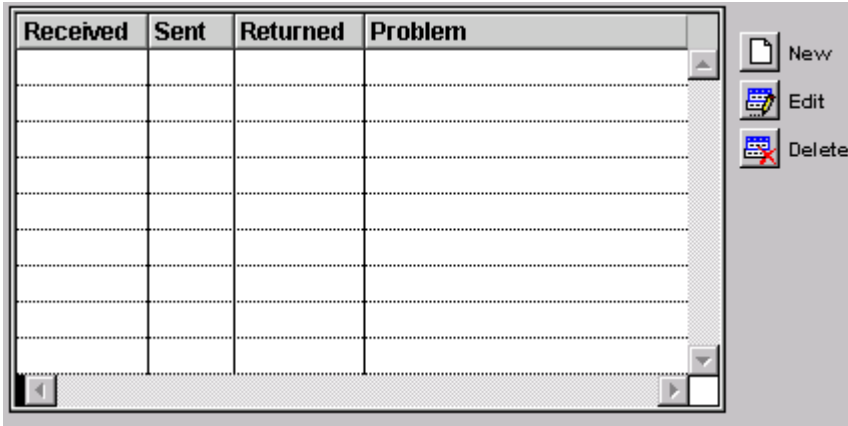


Date	Activity	Problem

The Remarks “tab” shows the third screen for the ladder record. Here, you can enter any remarks about the ladder.

Sub-Forms

Each data entry screen may have a Sub-Form or scrolling area (such as the Hose Repair area in the Hose Input screen shown below) where multiple records can be entered. You will see buttons next to a sub-form:



New:	Creates a new blank record and opens the edit screen for entering information.
Edit:	Opens the edit screen for entering information for the selected record. You can also double-click a record in a sub-form to open the edit screen.
Delete	Deletes the selected record from the list. This is a permanent operation.

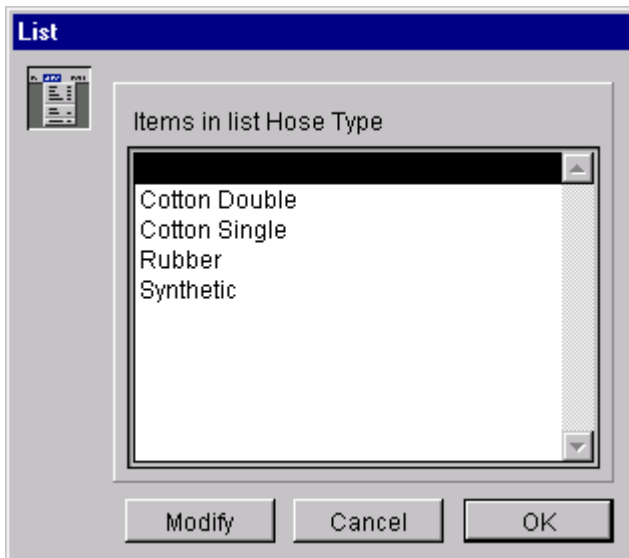
You select a record by single-clicking your mouse on the row you want.

Dates – 2 Digit, 4 Digit & Century Assumptions

The “Preferences” under the HERO Menu allow you to set a Default Century and a Pivot Year. HERO is shipped with the Default Century set to “19” and the Pivot Year set to “20”. This means that if you enter a 2 digit year that is greater than 20, it will assume “19” and make that the century (e.g., 1921, 1955, 1989, etc.). If the 2 digit year you enter is 20 or less, it will assume “20” and make that the century (e.g., 2000, 2002, 2018, 2019). You can change these values under the Preferences option.

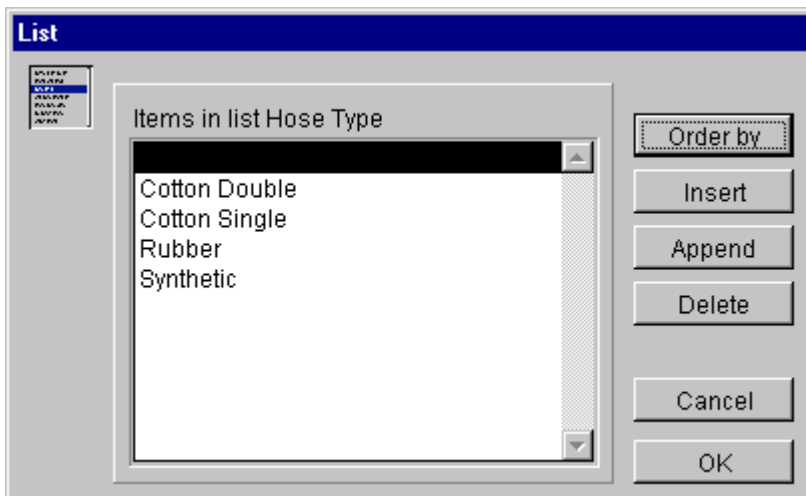
Pick Lists in the Input Screens

Several fields in the HERO program have “picklists”. This means that when you tab or click into a field a list will popup with values to choose from. For example, if you click on the Hose “Type” field, you will see a list like this:



To select an item in the list, you can double-click the item or type the first few letters to select the item and click OK or press Return.

If you need to add a new item to the list, click the “Modify” button and you will get a screen like this:



Click on “Append” to add another item to the list. A new blank item will be added to the bottom of the list. Type in the new value and press Return to add it to the list and the field you are editing.

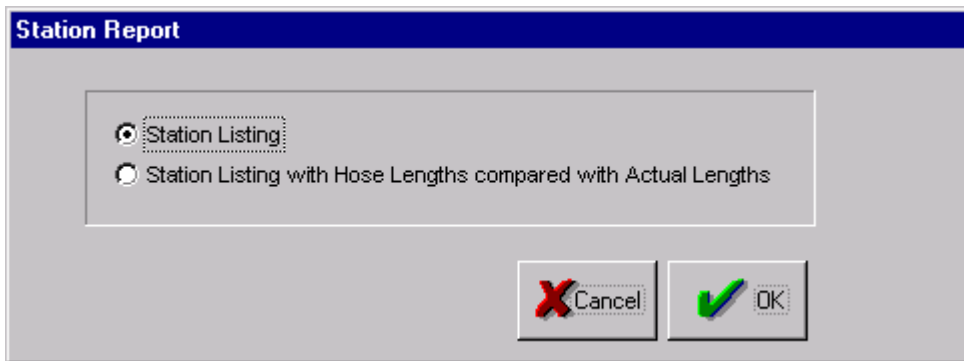
Chapter 3 Printing

Printing from the Main Station Screen

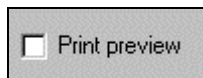
First, select the Station or group of Stations to print. Single-click on a station to select it. To select more than one Station, hold down the Ctrl key and click each record to select it. You may click on Subset to view only those records you've selected. To select all Stations, click on the list of Stations and then press Ctrl-A (Select All in the Edit menu).

Second, click on the Print button at the top.

For Stations, you will get an option to print a list of all the selected stations, or the same report with the Hose Lengths compared with those actually stored in the Hose Inventory.



You will get 2 print dialogs. The first allows you to select a different printer from your default printer. The second dialog allows you to select "Print Preview". There is a check box in the lower left corner of the second dialog.

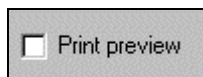


Printing from the Main Hose Screen

First, select the Hose or group of Hoses to print. Single-click on a Hose to select it. To select more than one Hose, hold down the Ctrl key and click each record to select it. You may click on Subset to view only those records you've selected. To select all Hoses, click on the list of Hoses and then press Ctrl-A (Select All in the Edit menu).

Second, click on the Print button at the top.

You will get 2 print dialogs. The first allows you to select a different printer from your default printer. The second dialog allows you to select "Print Preview". There is a check box in the lower left corner of the second dialog.

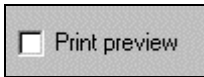


Printing from the Main Ladder Screen

First, select the Ladder or group of Ladders to print. Single-click on a Ladder to select it. To select more than one Ladder, hold down the Ctrl key and click each record to select it. You may click on Subset to view only those records you've selected. To select all Ladders, click on the list of Ladders and then press Ctrl-A (Select All in the Edit menu).

Second, click on the Print button at the top.

You will get 2 print dialogs. The first allows you to select a different printer from your default printer. The second dialog allows you to select "Print Preview". There is a check box in the lower left corner of the second dialog.



Printing from the Data Entry screen

If you are already in the data entry screen for a Station, Hose, or Ladder you can print by clicking on the Printer button in the lower left corner. If you do not see this button, click OK or cancel on the current data entry screen.



Click this button to print from within a Data Entry screen.

Chapter 4 Bar Code Inventory

The capability to perform a bar code inventory of hoses is a powerful HERO feature. For example, suppose you needed to perform an inventory of all hoses that are pending repair. Using a portable bar code scanner, you would simply scan the bar code of all hoses in your facility that were believed to be pending repair, specifying a “Test Status” value of “Pending Repair” as the inventory criteria in HERO, as shown below. Any and all discrepancies would be noted on the HERO printout. Similarly, an inventory of all hoses at a station could be conducted, specifying a “Station” value naming the station being inventoried.

Click on the Bar Code button

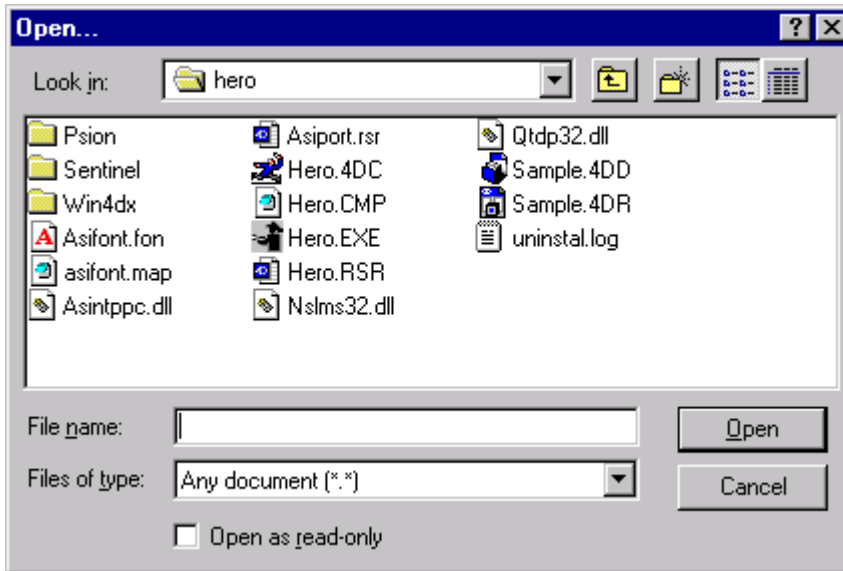


on the Hose Main Screen (or Ladder Main screen for a Ladder inventory).

The screenshot shows a software window titled "Hose: 6 out of 6". The window contains a table with two columns: "Item" and "Value". The "Item" column lists various attributes: Station, Apparatus, Manufacturer, Length, Diameter, Type, Test Status, and Test Pressure. The "Value" column contains dropdown menus for each attribute. The "Test Status" dropdown menu is currently open, showing "Pending Repair" selected. At the bottom right of the window, there are two buttons: "Cancel" (with a red X icon) and "OK" (with a green checkmark icon).

Item	Value
Station	
Apparatus	
Manufacturer	
Length	
Diameter	
Type	
Test Status	Pending Repair
Test Pressure	

After selecting the Criteria on the screen above, when you click OK you will get an Open File Dialog.



Find the bar code file that you downloaded using your portable Barcode scanner and double click on it to begin the inventory.

HERO currently supports both the PSION Model XP, as well as the PERCON TopGun bar code scanners. A bar code scanner makes easy work of those inventories of by station, manufacturer, hoses pending repair, or many other criteria.

Using the PSION Model XP Portable Barcode Scanner

The PSION Model XP has been pre-programmed to scan Code 3 of 9 bar code labels of 30 alphanumeric characters or less, in conformance with the requirements of HERO. To begin using the scanner with HERO, please do the following:

Scanning Barcodes

1. Connect the bar code scanner cable to the PSION Model XP.
2. Press the PSION Model XP's **ON/CLEAR** key twice to power the unit on and to load the scanner software from the interface cable plug.
3. Select **HERO** from the menu using the arrow keys and press the **EXE** key. The user will be asked whether to append any new bar code scans to the existing database file (perhaps an inventory was interrupted to answer the telephone). If an affirmative response is given (by pressing **Y**), the user may then begin scanning. If a negative response is given (by pressing **N**), the user will be provided with two chances to be sure that it is OK to erase the existing database file.
4. As each hose/coupling bar code is scanned, the PSION's menu will show how many bar codes have been scanned during this session, the contents of the last bar code scanned, as well as informing the user that by pressing any key on the Model XP's keypad the scanning session may be terminated.

Transferring Barcode Data to HERO

To download scanned bar code data from the PSION Model XP Organizer to HERO on the PC:

1. Connect the Comms Link cable between the serial port (RS232) on the PC (designated as COM1:) and the PSION Model XP.
2. Press the **CLEAR/ON** key on the PSION Model XP twice to load the COMMS program from the Comms Link cable plug.
3. On the PC, from the Program menu, run the **CommsLink for PSION** program and type **CL** followed by the **<Enter>** key, to start the CommsLink program.
4. Select **COMMS** from the PSION Model XP's menu using the arrow keys and press the **EXE** key to begin the **COMMS** program.
5. Select **SETUP** from the Model XP's menu using the arrow keys and press **EXE** to display the current parameters. Use the up-down arrow keys to scan through the parameters and the left-right arrow keys to change the values shown until they match those below:

BAUD	9600
PARITY	NONE

BITS	8	
STOP	1	
HAND	XON	
PROTOCOL	PSION	<i>Use left-right arrows to make this change.</i>
ECHO	HOST	
WIDTH	NONE	
TIMEOUT	NONE	
REOL	<CR><LF>	
REOF	<SUB>	
RTRN	NONE	
TEOL	<CR><LF>	
TEOF	<SUB><CR>	Press EXE key, then type 26,13 and press the EXE again to make this change.
TTRN	NONE	

- Press the **MODE** key on the PSION Model XP to return from the communications parameter setup list and press the **EXE** key to select **EXIT**.
- Select **TRANSMIT** from the menu, then press the **EXE** key. Next, select **FILE** from the menu and press the **EXE** key.
- The PSION Model XP's menu should then show:

SEND A:MAIN

- Press the **CLEAR/ON** key to erase the file name of MAIN and then type SCANFILE and press the **EXE** key to begin the file transfer process.

SEND A:SCANFILE

- Press the **ON** key four times to return once again to the main menu. Press the **Q** key followed by the **Y** key on the PC's keyboard, to stop execution of the CommsLink program and then close the CommsLink window. Press the **O** key on the PSION to turn the unit off.
- While running the HERO™ program on the PC, go into the either the Hose Inventory or Ladder Inventory portion of the program and then press the Bar Code button. Next, select the criteria item for the inventory (Station, Apparatus, Test Status, etc.). Finally, find the bar code file that you downloaded using your portable Barcode scanner and double click on it to begin the inventory.

Reloading the HERO Barcode Scanning Program

The PSION Model XP has been pre-programmed with the HERO bar code scanning software. However, should the battery malfunction or if it is removed for more than a few seconds during replacement, it is possible that the HERO bar code scanning program could be lost. To reload the PSION Model XP's HERO bar code scanning program from the PC, perform the following steps:

- Connect the Comms Link cable between the serial port (COM1:) on the PC and the PSION Model XP Barcode Scanner Computer.

2. Press the **CLEAR/ON** key on the PSION Model XP twice to load the COMMS program from the Comms Link cable plug.
3. On the PC, from the Program menu, run the **CommsLink for PSION** program and type **CL** followed by the **<Enter>** key, to start the CommsLink program.
4. Select **COMMS** from the PSION Model XP's menu using the arrow keys and press the **EXE** key to begin the **COMMS** program.
5. Select **SETUP** from the Model XP's menu using the arrow keys and press **EXE** to display the current parameters. Use the up-down arrow keys to scan through the parameters and the left-right arrow keys to change the values shown until they match those below:

BAUD	9600	
PARITY	NONE	
BITS	8	
STOP	1	
HAND	XON	
PROTOCOL	PSION	<i>Use left-right arrows to make this change.</i>
ECHO	HOST	
WIDTH	NONE	
TIMEOUT	NONE	
REOL	<CR><LF>	
REOF	<SUB>	
RTRN	NONE	
TEOL	<CR><LF>	
TEOF	<SUB><CR>	Press EXE key, then type 26,13 and press the EXE again to make this change.
TTRN	NONE	

6. Press the **MODE** key on the PSION Model XP to return from the communications parameter setup list and press the **EXE** key to select **EXIT**.
7. Press the right arrow key once to select **RECEIVE** from the menu, then press the **EXE** key. Next, press the right arrow key one more time, followed by the **EXE** key to select **PROCEDURE** from the menu.
8. The PSION Model XP's menu should then show:

RECV A:

9. Type HERO and then press the **EXE** key so that the Model XP's menu reads:

RECV A:HERO
 FROM: HERO

Then press the Model XP's **EXE** key once more to begin the file transfer process.

10. After file transfer has completed (approximately 10 seconds will have elapsed), press the Model XP's **ON** key three times until the main menu one again appears. Next, use the

arrow keys to select **PROG** from the menu and then press the **EXE** key to select that choice.

11. Once in the PROG sub-menu, select **EDIT** and press the **EXE** key. Next, type: *HERO* followed by pressing the **EXE** key. Please make no changes to the HERO program, but instead, immediately press the **MODE** key to leave the editing mode. Next, select **TRAN** from the menu and press the **EXE** key to begin program translation (this will take several moments, so please be patient). Once translation has completed, select **SAVE** from the menu and press the **EXE** key to save the compiled program.
12. Press the **ON** key four times to return once again to the main menu and then press the **MODE** key to insert the HERO program into the menu stack by typing: *HERO* followed by the **EXE** key. The HERO Bar code scanning program has now been completely reloaded, re-compiled and reinserted into the PSION Model XP's menu stack. Press the **Q** key followed by the **Y** key on the PC's keyboard, to stop execution of the Comms Link program.
13. Select **COMMS** from the PSION Model XP's menu using the arrow keys and press the **EXE** key to begin the **COMMS** program.
14. Press the **MODE** key on the PSION Model XP to return from the communications parameter setup list and press the **EXE** key to select **EXIT**. Press the **ON** key to return to the main menu and press the **O** key to turn the unit off.

Using the PERCON TopGun Portable Barcode Scanner

The PERCON TopGun bar code scanner can be used with HERO as a portable bar code scanning device. It should be noted that the TopGun requires a password, in order to use the device to collect bar code information. Please refer to the appropriate section of the PERCON TopGun User's Manual for detailed instructions on:

Getting Started, Installing Batteries & Recharging

Setting the Date & Time

Setting a Password

Using the Device as a Keyboard Wedge

Using the PALPRO Application INVPRO

Uploading Collected Information to the PC Using the Portable File Transfer Program (PTFER)

Scanning Barcodes

When the PERCON TopGun is to be used as a portable bar code device, the bar code data collected must first be collected and then downloaded to the PC, prior to performing a bar code inventory report.

The PERCON TopGun bar code scanner comes pre-programmed with PALPRO, which contains a variety of bar code data collection programs. The PALPRO bar code data collection program that is compatible with HERO is called INVPRO. To use INVPRO to collect bar code inventory information for use with HERO, follow the following steps:

1. After you have first turned on the TopGun and have entered the appropriate password, under PALPRO OPTIONS press the F2 key to "SELECT PROG".

```
PALPRO OPTIONS
F2=SELECT PROG
F3=WEDGE
F4=PASSWORD
```

2. Press F2, to select the INVPRO program.

```
F1=ASSET MGMT
F2=INV MGMT
F3=ITEM TRACKING
F4=EXIT
```

3. Press F4, to only use a single prompt.

```
USE 2 PROMPTS?

F3=YES
F4=NO
```

4. To change the application's title or prompts, select F3 and follow the instructions below. Otherwise, select F4 and skip to step 5.

```
CHANGE PROMPTS?

F3=YES
F4=NO
```

Enter a new name for the INVTPRO program, such as **HERO INVENTORY**, followed by the ENTER key.

```
ENTER APPL TITLE
```

Enter the text that you want to use for the prompt, such as **HOSE BARCODE**, followed by the ENTER key.

```
ENTER PROMPT 1
```

5. Select F2, to begin the bar code data collection operation.

```

INV MGMT
F2=COLLECT
F3=FILE OPTIONS
F4=EXIT

```

6. The selected prompt will next appear on the screen (you may have modified it in step 4 above to be something other than that shown below...perhaps to be HOSE BARCODE). Scan the bar code of a hose or type in the hose's bar code I.D. If you type in the I.D., you will need to press the ENTER key.

```

ITEM ID

F3=REV F4=EXIT

```

7. The prompt again appears on the first line of the screen (you may have modified it in step 4 above to something other than that shown below...perhaps to be HOSE BARCODE), and the hose bar code scanned in step 6 above appears on the third line.

```

ITEM ID

C12345
F3=REV F4=EXIT

```

Again, scan the bar code identifying the hose, or use the keypad to enter the hose's bar code I.D. If you type in the I.D., you will need to press the ENTER key.

Repeat the bar code scanning process, until you have collected bar code I.D.s for all items to be inventoried. Then press the F4 key to return to the application menu.

The PERCON TopGun bar code scanner stores the collected bar code data in a single ASCII text file. When you download the file to your PC, the data appears as a list. Each line in the list contains a bar code. A sample data file appears below.

```

D00001
D01231
D10456
D28904
D16793
D87442
D66335
D22778
D56489
D14773

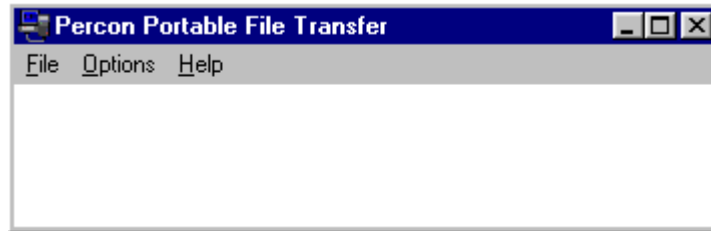
```

Downloading Barcode Data from the PERCON TopGun Barcode Scanner

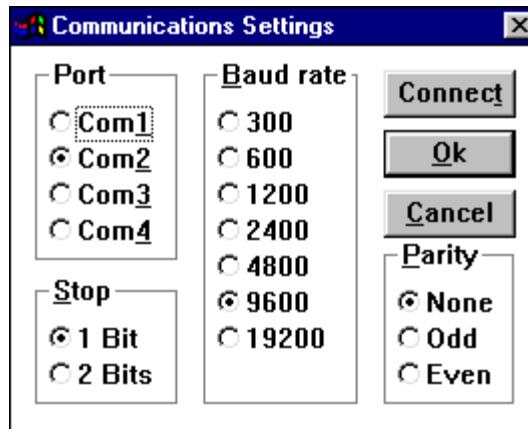
After you've scanned a series of bar codes, you can download the information to your PC for subsequent inventory reporting by HERO. The PERCON TopGun bar code scanner comes with PERCON's Portable Applications Library (PAL) on a diskette. You can use the PTFER file transfer utility to download the previously collected bar code data to your PC.

To prepare for a data transfer between your Windows PC and the PERCON TopGun bar code scanner, complete the following steps:

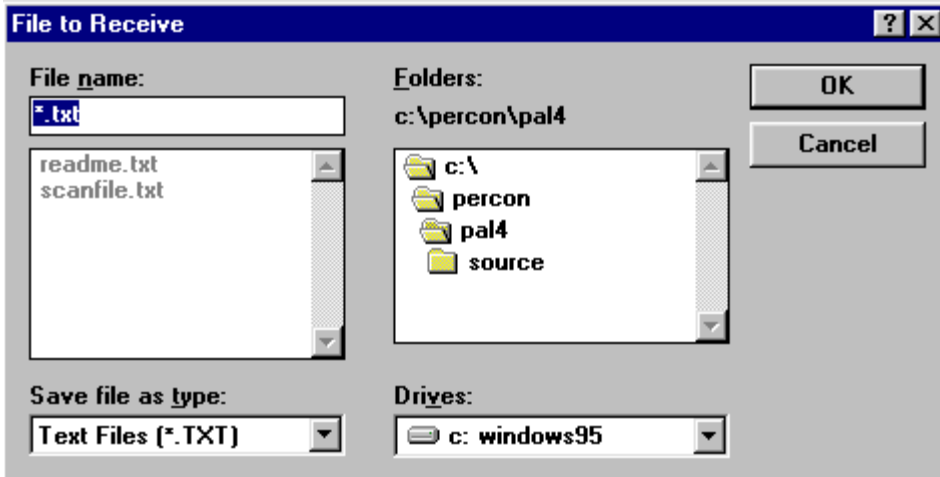
1. If the utility software is not already installed on your PC, install it following the instructions included with the diskette packaged with the PERCON TopGun bar code scanner.
2. In Windows, launch the PTFER program by double clicking on the PTFER icon. A blank PTFER windows opens, as shown below.



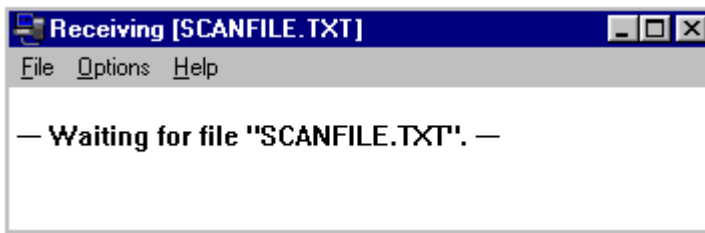
By default, PTFER uses COM2 as the communications port. If you need to switch to a different port or make other changes to the defaults, select **Options -> Settings** from the PTFER menu. The Communications Settings dialog shown below will appear where changes can be made.



3. Select **Options -> Connect** (or click on the **Connect** button in the Communications Settings dialog box) to connect with the selected port. The message "Communications port opened" appears in the window. You are now ready to transfer files between your PC and the PERCON TopGun bar code scanner.
4. To download a file from the PERCON TopGun bar code scanner, select **File -> Receive** from the PTFER menu and use the File to Receive dialog as shown below, to specify the name and location of where you want to store the downloaded file.



PTFER displays a message saying that it is expecting the file, as shown in the dialog below.



5. Plug the PERCON TopGun bar code scanner into the appropriate communications port on the PC (COM1 or COM2, as selected in step 2 above), using the PERCOM cable number 00-884-19 (25 pin) or 00-884-28 (9-pin).
6. From the INVPRO program menu shown below, select F3 to display the File Options menu.

```

INV MGMT
F2=COLLECT
F3=FILE OPTIONS
F4=EXIT

```

7. Select F2 to display the Send File menu.

```

*FILE OPTIONS*
F2=SEND FILE
F3=ERASE FILE
F4=EXIT

```

8. Select F2 to download the bar code data through the serial port connection.

```

*SEND FILE*
F2=SERIAL
F3=WEDGE
F4=EXIT

```

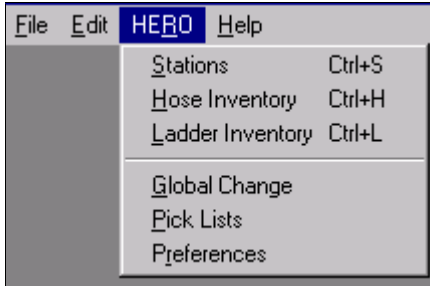
9. After successfully downloading the bar code data to the PC, the file in the PERCON TopGun may be erased by selecting F3 from the menu shown below.

FILE OPTIONS F2=SEND FILE F3=ERASE FILE F4=EXIT
--

Turn the PERCON TopGun off by pressing the green I/O button. This will turn off the screen display, but it will not clear any information in the portable's random-access memory (RAM). The portable is programmed to shut itself off automatically if you do not use it for ten minutes.

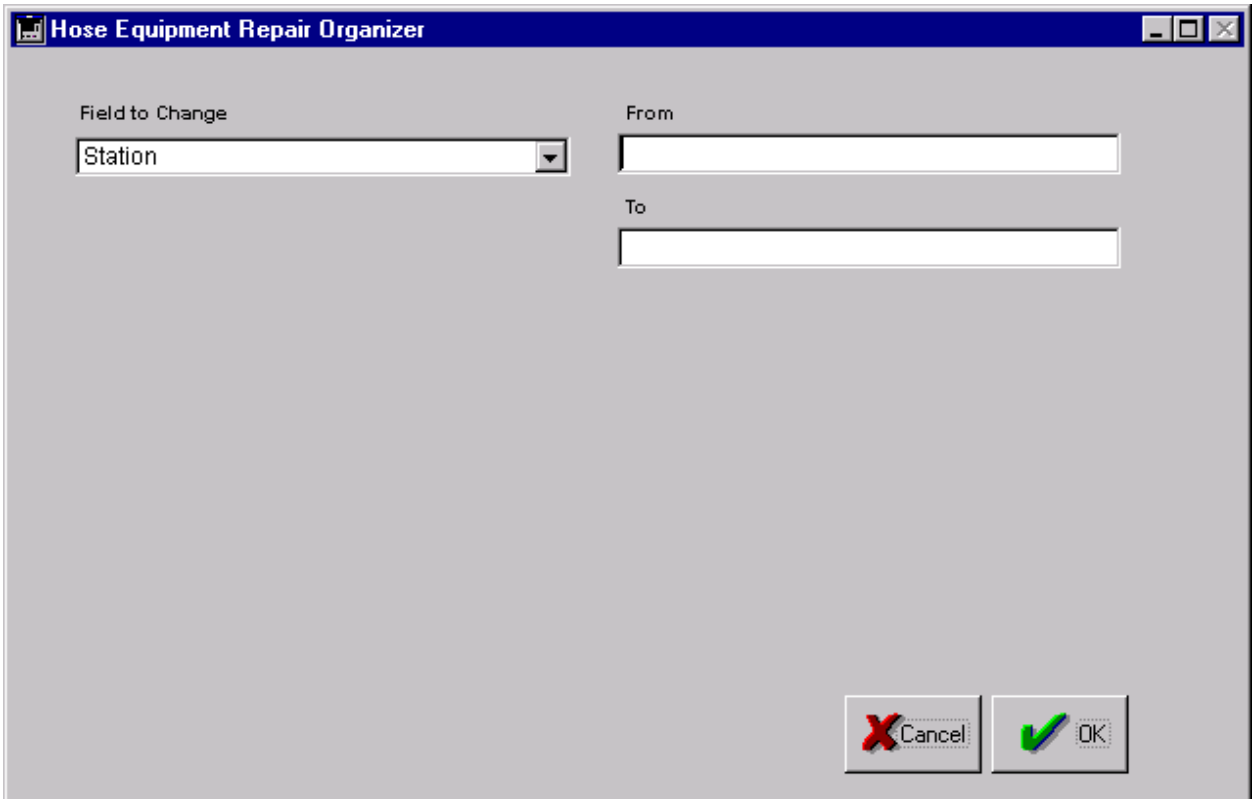
Chapter 5 HERO Menu

In addition to being able to select “Stations”, “Hose Inventory” and “Ladder Inventory” from the HERO menu, Global Changes, Pick Lists and Preferences are under the HERO pull-down menu.



Global Changes

“Global Changes” is under the “HERO” menu. If you need to modify an existing picklist item due to a name change or data entry error, you can quickly change the item for all of the records by doing a global change.

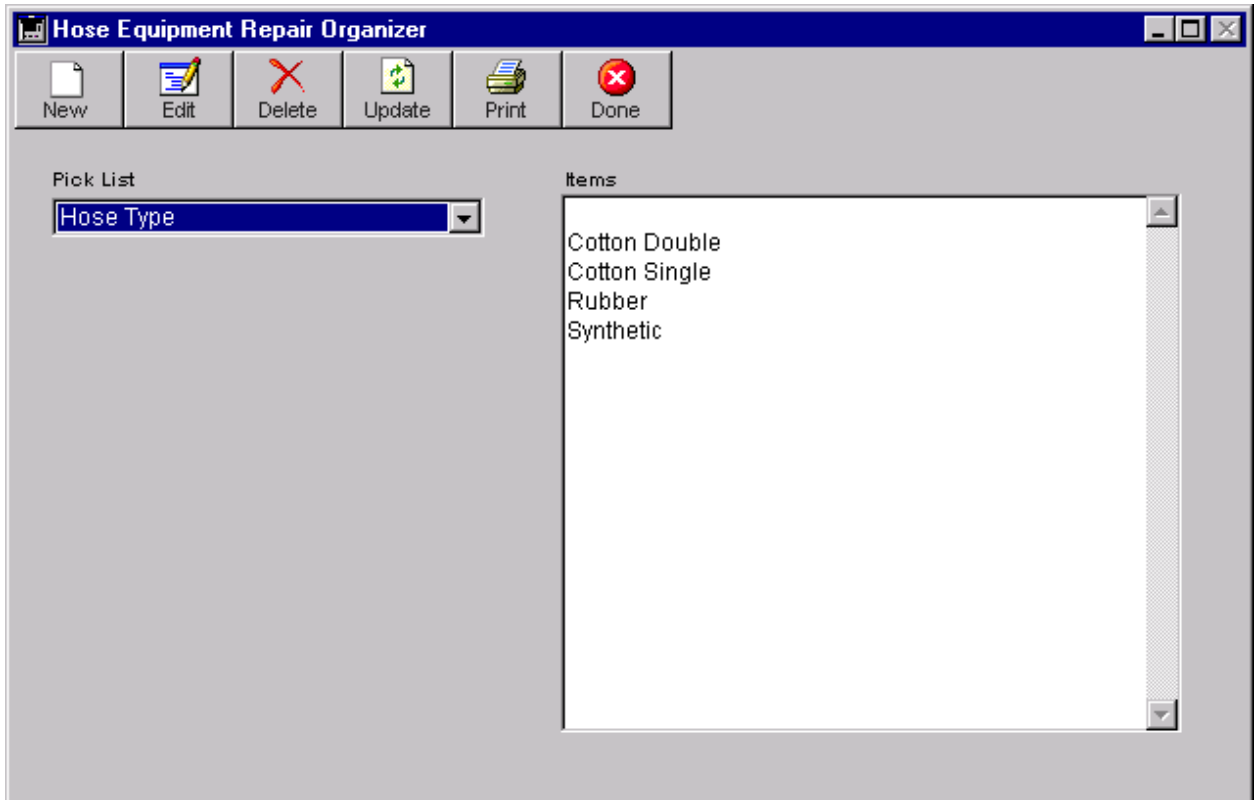


For example, you may need to change a Station ID. You select Station from the “Field to Change” popup. Click in the From field to select the current Station ID from the Station picklist. Click in the To field to select the new Station ID from the picklist (new station id has already been entered into the Stations

module). Click OK to change all of the Station ID's in the Hose and Ladder modules that have the old Station ID to the new Station ID.

Pick Lists

If you need to make modifications to all of the picklists within HERO, you can select "Pick Lists" from the HERO menu. You will see a screen like this:



You select the list you want to modify by clicking on the "Pick List" popup. Once you have selected a list (Hose Type is shown above), you will see the list of items on the right. You can add, modify, or delete any of the items from the list.

Update will scan the existing database for any items that are not already on the list. If any item is not on the list, it will be added.

Print will print a list of all HERO picklists.

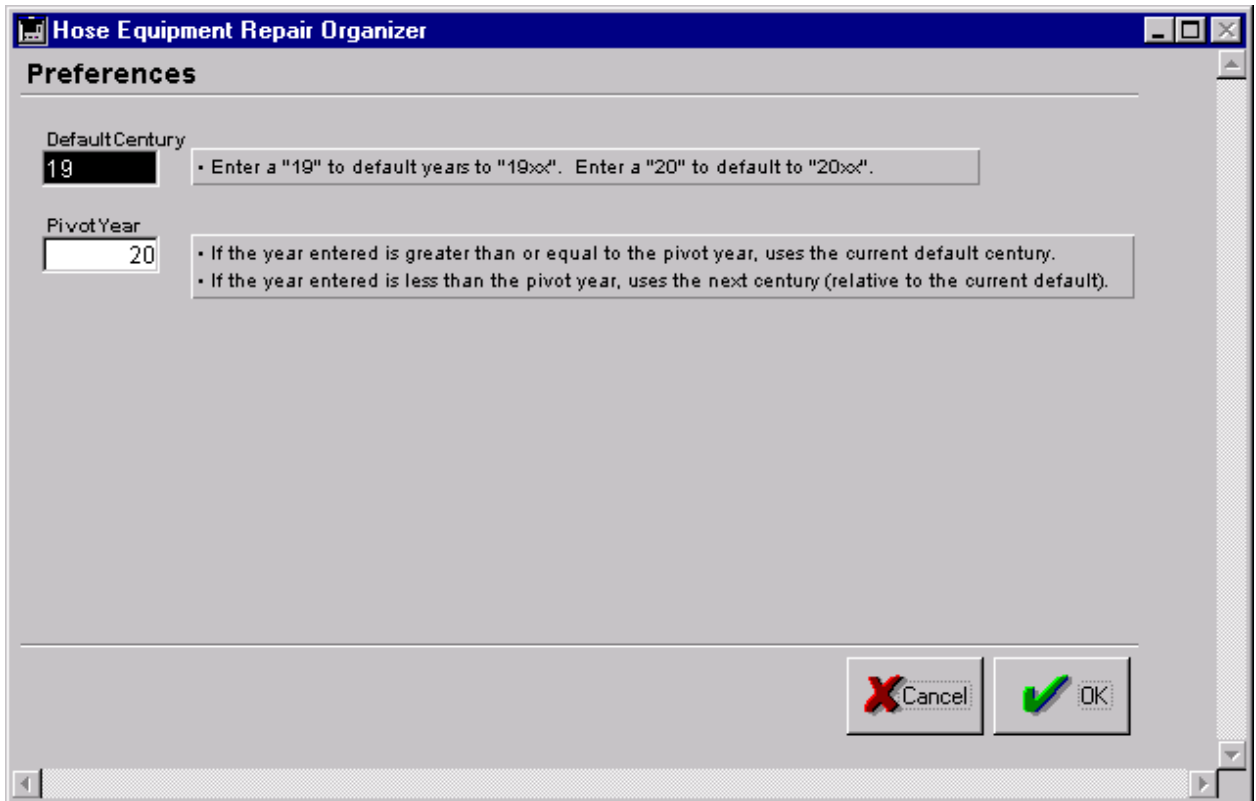
Preferences

Preferences let's you setup your dates for working with the Y2K. When you enter a date field, you only need to enter MM/DD/YY. The YY will automatically be converted to be "19xx" or "20xx" depending on the settings within Preferences.

The default values are shown below.

Default Century – If you enter "99" for the year, it will add the default century. In this case "19" to display "1999".

Pivot Year – If you enter "15" for the year, since 15 is less than the Pivot Year, it will add the default century plus 1, for "20". So "15" would become "2015". When the current year becomes 2020, you will want to modify the Pivot Year to a higher number, or change the default century to "20".



Chapter 6 Utilities

HERO Data File Maintenance

There are two major reasons for performing maintenance on a HERO data file

- There have been many record deletions and the program is running slower.
- There has been some damage to the data file due to power failure or some other problem.

If you get an error message concerning the data while running HERO, then there is probably a need to repair the data file. Data file damage or corruption can be very serious. However, it can almost always be corrected by using 4D Tools.

If you get any other kind of error message while running HERO, WRITE DOWN THE MESSAGE and what happened before the message appeared and contact KMP Products.

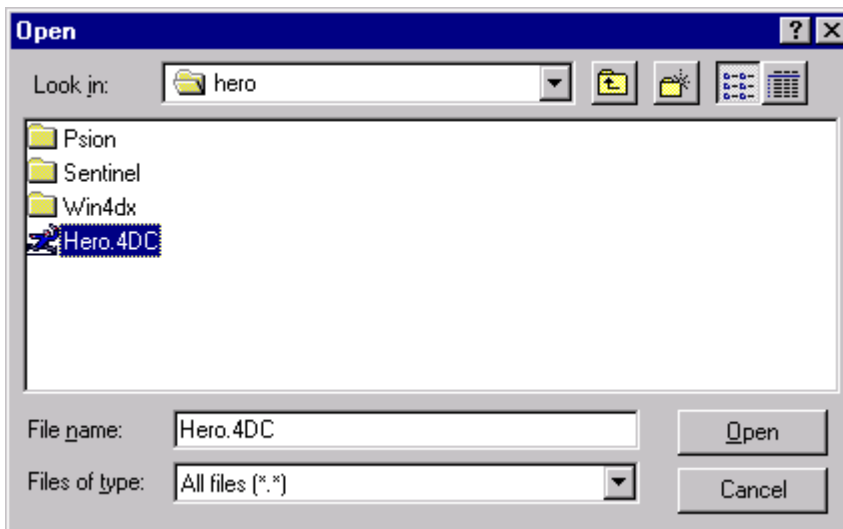
Generally, the best thing to do when there has been some damage or degradation to the data file is to create a new, compacted version of the file. In more severe cases, it might be necessary to first create a compacted file and use this new file to create a "recovered by tags" file. The sections below provide information on how to do these.

Compacting the Data file with 4D Tools

Compacting the data file is a way of tidying up its disk storage to improve performance and reduce its size, especially if significant numbers of records have been deleted. Compacting creates a new data file that will be smaller and more efficient than the current file.

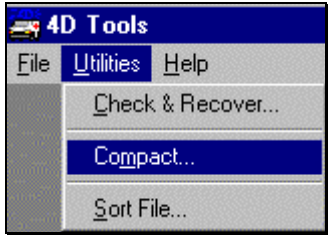
Data files should not be compacted over a network unless they are very small, because of the time involved.

Start 4D Tools by selecting it from the HERO start program group.

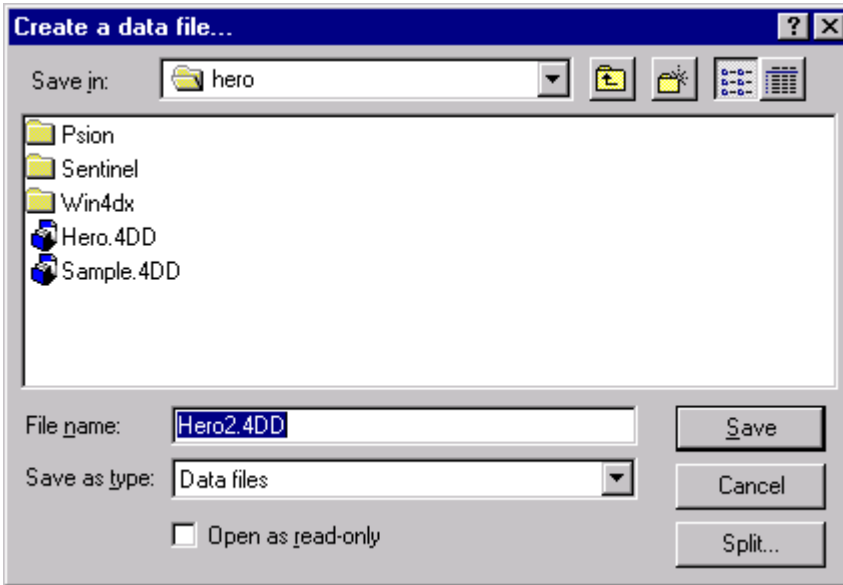


When you see the open dialog shown above, select the HERO structure file (.4DC for Windows) and click Open.

Select "Compact" from the Utilities menu.



You will see a dialog box like this:



The Compaction will create a new data file. The default shown above is “HERO2.4dd”. Click Save to compact the file.

After the Compaction has completed, you need to delete the old data files “HERO.4dd” and “HERO.4dr”. Rename the newly compacted files to the old file name:

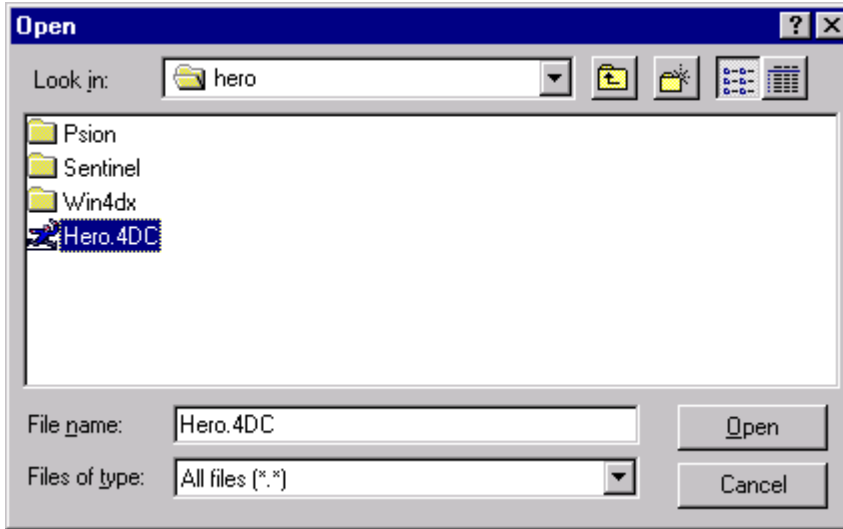
Rename:

- HERO2.4dd to HERO.4dd
- HERO2.4dr to HERO.4dr

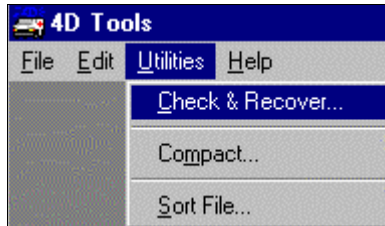
Recover by Tags using 4D Tools

It is highly recommended that you first create a compacted data file and then run the Recover by Tags operation on that compacted file as a means of data recovery, since the recover operation sometimes restores deleted records or causes records to revert to an earlier state. Compacting the data file before recovery prevents this. Refer to the previous section for information on how to do a compaction.

Start 4D Tools by selecting it from the HERO start program group.



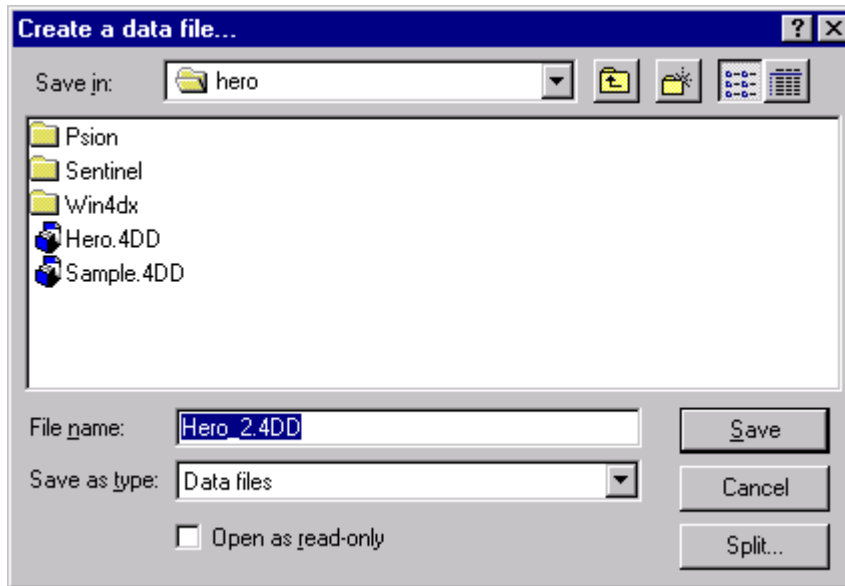
When you see the open dialog shown above, select the HERO structure file (.4DC for Windows) and click Open.



Select Check & Recover.



Select Recover by tags. You will see a dialog box like this:



The Recover by Tags will create a new data file. The default shown above is “HERO_2.4dd”. Click Save to compact the file. Progress indicators (Scavenging and then Indexing) will run as the process proceeds.

After the Recover by Tags has completed, you need to delete the old data files “HERO.4dd” and “HERO.4dr”. Rename the newly compacted files to the old file name:

Rename:

- HERO_2.4dd to HERO.4dd
- HERO_2.4dr to HERO.4dr

Backing up HERO Windows Data Files

There are 2 files that contain all the data that must be backed up. They have a file extension of “.4dd” and “.4dr”. This is typically the HERO.4dd and HERO.4dr files. If you have a hardware failure, you can reinstall HERO from your original installation disk(s) and then restore your backed up data files.

Backup the HERO.4dd and HERO.4dr data files

Below is a brief description of the various files used in the HERO Windows program.

HERO Windows Files

Filename	Ext	Description
ASIFONT	MAP	Utility File
ASIFONT	FON	Utility File
ASINTPPC	DLL	Library File
ASIPORT	RSR	Utility File
NSLMS32	DLL	Library File (for NetSentinel)
QTDP32	DLL	Library File
SERIAL16	DLL	Utility File
HERO	4DC	HERO single-user program file
HERO	RSR	HERO single-user program resource file.
HERO	4DD	Most common name for HERO single-user data file
HERO	4DR	Most common name for HERO single-user data resource file
HERO	EXE	The HERO program.
SAMPLE	4DD	Sample HERO data file.
SAMPLE	4DR	Sample Hero data resource file.
4DTOOLS	EXE	Utility program that is used to repair damage to the HERO data file or to compact it, which is similar to a "tune-up" on a car.
4DTOOLS	RSR	Resource file for 4D Tools.
DOCS	<DIR>	HERO Documentation.
WIN4DX	<DIR>	This directory contains files that provide special external capabilities that HERO uses.
PSION	<DIR>	Contains files for PSION Organizer portable bar code scanner.
SENTINEL	<DIR>	Contains files for Software Security Device Driver.