

Wheel Press Gage

A component of the Wheel Shop Management Suite (WSMS)

User Guide



Contents

Introduction	1
System Requirements	2
Installing Wheel Press Recorder	3
Setup	7
Initial Setup	7
General.....	8
Chart.....	9
Press.....	10
Calibration.....	12
Distance.....	13
Force	15
Installation	16
Distance Transducer	17
Pressure Transduce.....	19
Power Requirements	21
Appendix A: Frequently Asked Questions (FAQ)	22
Appendix B: License	23
Appendix C: Press Settings.....	26
Appendix D: Contact Information.....	27

Introduction

Wheel Press Gage

The Wheel Press Gage is used to record force/distance graphs on a wheel mounting press. Additional data may be entered, such as operator name, serial number, wheel type, and wheel diameter. The operator sets the values for minimum and maximum force limits. The program will automatically recognize a misfit caused by not reaching the minimum force or exceeding the maximum force and mark the graph as a misfit; however, wheel shop personnel **must review each chart for correctness** per Association of American Railroad (AAR) requirements.

By installing and/or using the Wheel Press Gage, you indicate that you have read, understand, and accept the [Software License Agreement found in Appendix B](#).

System Requirements

This application has minimum system requirements as described below. These requirements must be met in order for the application to operate as designed.

This application supports the following Microsoft Windows operating systems.

- Windows 7 ¹
- Windows Server 2008/2008 R2 1
- Windows Vista Business/Ultimate 1
- Windows Server 2003 SP2 1
- Windows XP SP3 1

The application requires the Microsoft .Net Framework 3.5 Full which can be obtained from Microsoft at <http://www.microsoft.com/en-us/download/details.aspx?id=17718>

The application requires the following hardware at a minimum.

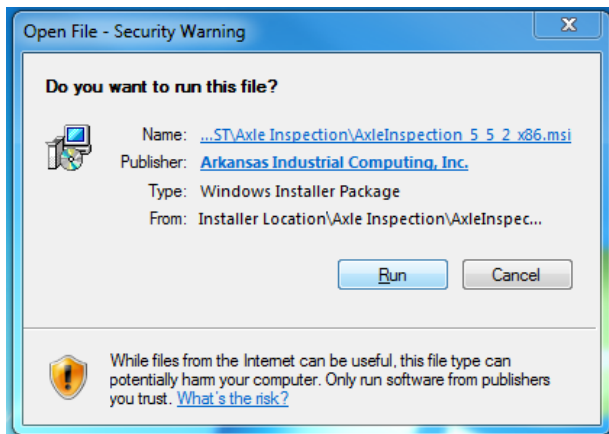
- 2.0 GHz Processor
- 1 GB installed RAM
- 100 MB available disk space
- Ethernet Card

¹ When installed on a 64 bit operating system, the application will run in a subsystem of Windows called WOW64 (Windows-on-Windows 64 bit). WOW64 is included on all 64 bit versions of Windows and is designed to make differences between the operating systems transparent to the user.

Installing Wheel Press Recorder

You will need Administrator rights to install Wheel Press Recorder .

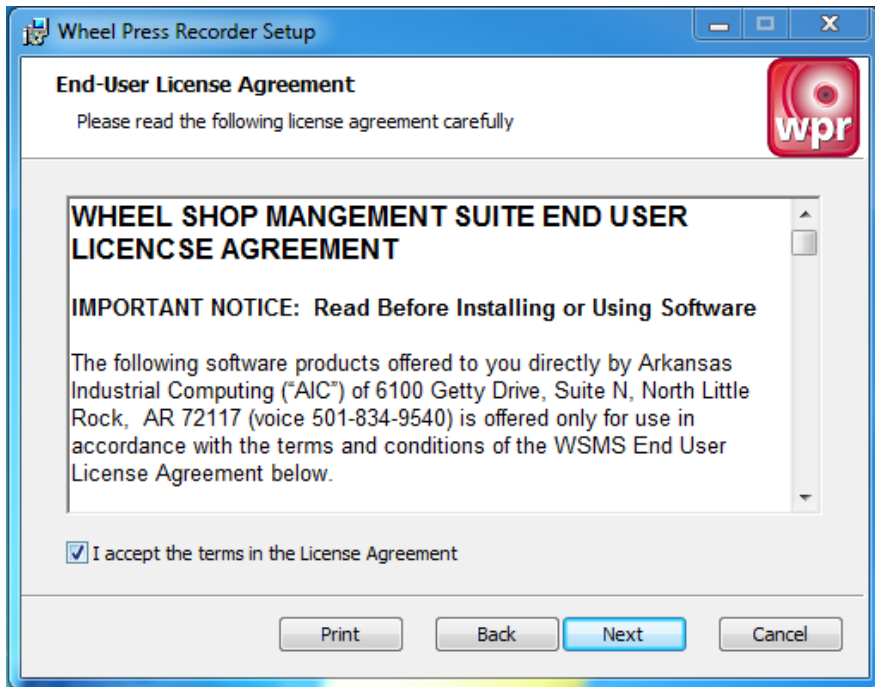
Make sure you have the latest version of our Wheel Press Recorder Setup program. [Contact](#) our support team for assistance. To install Wheel Press Recorder , run the setup program and follow the on screen prompts as described below:



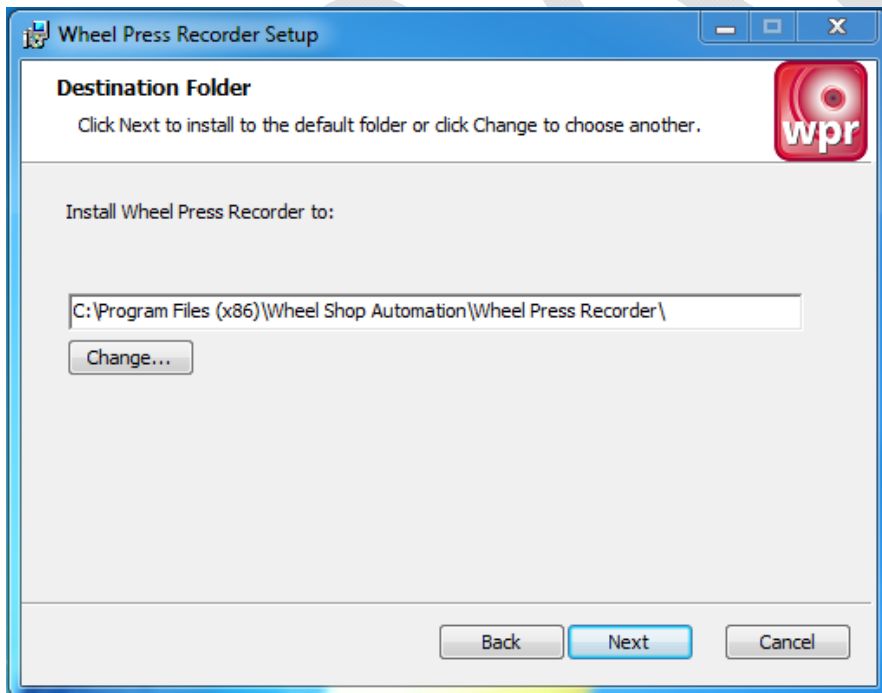
Click Next to continue.



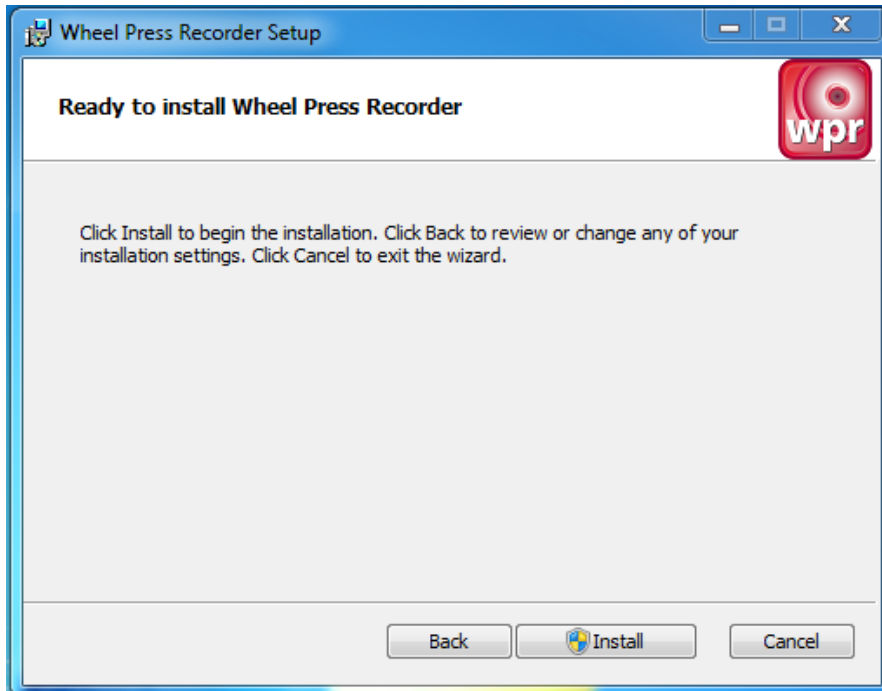
Accept the license agreement and click Next.



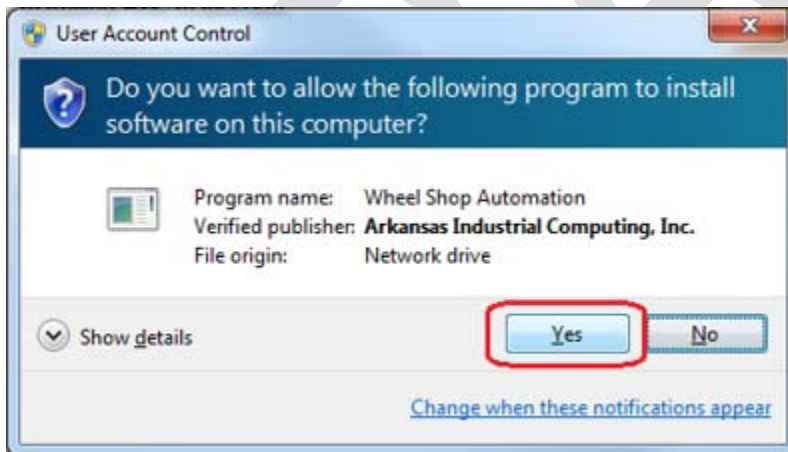
Select the location where you would like to install Wheel Press Recorder to and click Next.



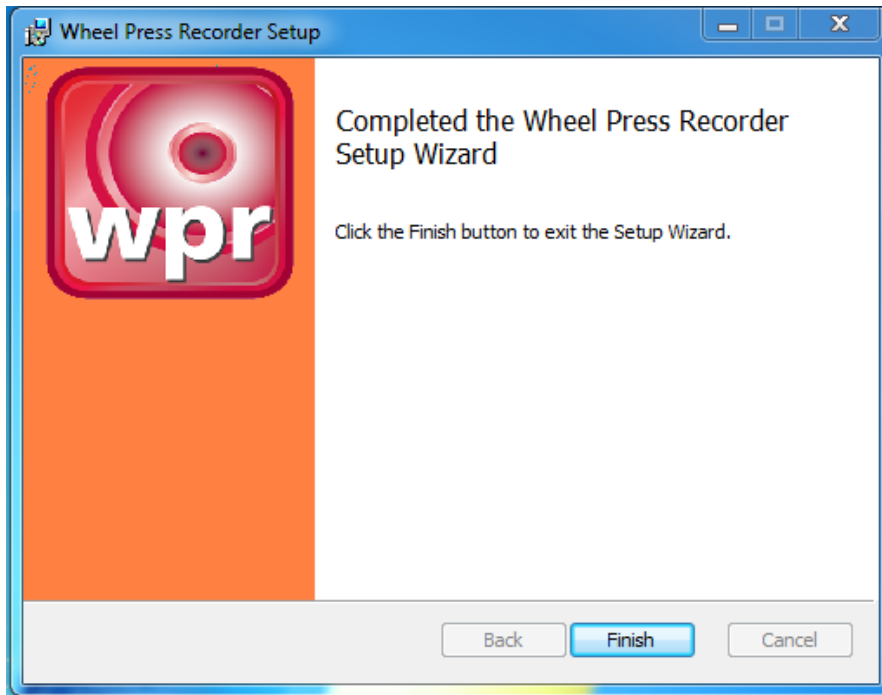
Click Install to begin the installation.



You may be asked to allow the setup program to install Wheel Press Recorder on your computer. Select Yes.

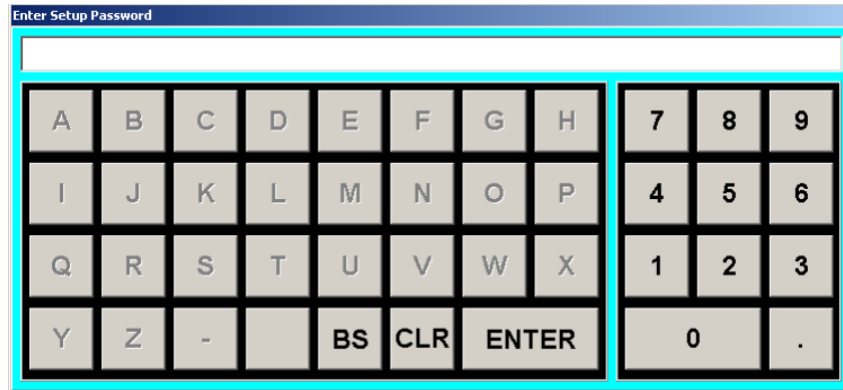


When the installation has completed, click Finish to close the setup application.



Setup

To enter the setup mode of the WPG, a numeric password must be supplied. Enter the numbers on the touchpad and press the Enter key. The default password is 9540. The password may be changed by editing the Password parameter in the C:\WPG\wpg.ini configuration file.



Initial Setup

The initial setup mode is normally used to provide a rough calibration if the press dimensions are known prior to shipment. If the parameter InitialSetupComplete is set to false in the C:\WPG\wpg.ini configuration file and the WPG program is restarted, then the following screen will appear. Fill in values for the prompts to set some default calibration values. Pressure transducer max range will normally be 3000 psi. Press bore diameter depends on the press. Distance transducer max stroke is normally 60 inches.



General

The current version number and date of the WPG is displayed along with the previous version (if any) of the program. If a previous version exists there will be a button allowing the user to revert to the previous program version. See THESECTIONBELOW for details on how to update the program.



Chart

This setup page is used to configure the displayed and printed charts. See below for a description of each setting:

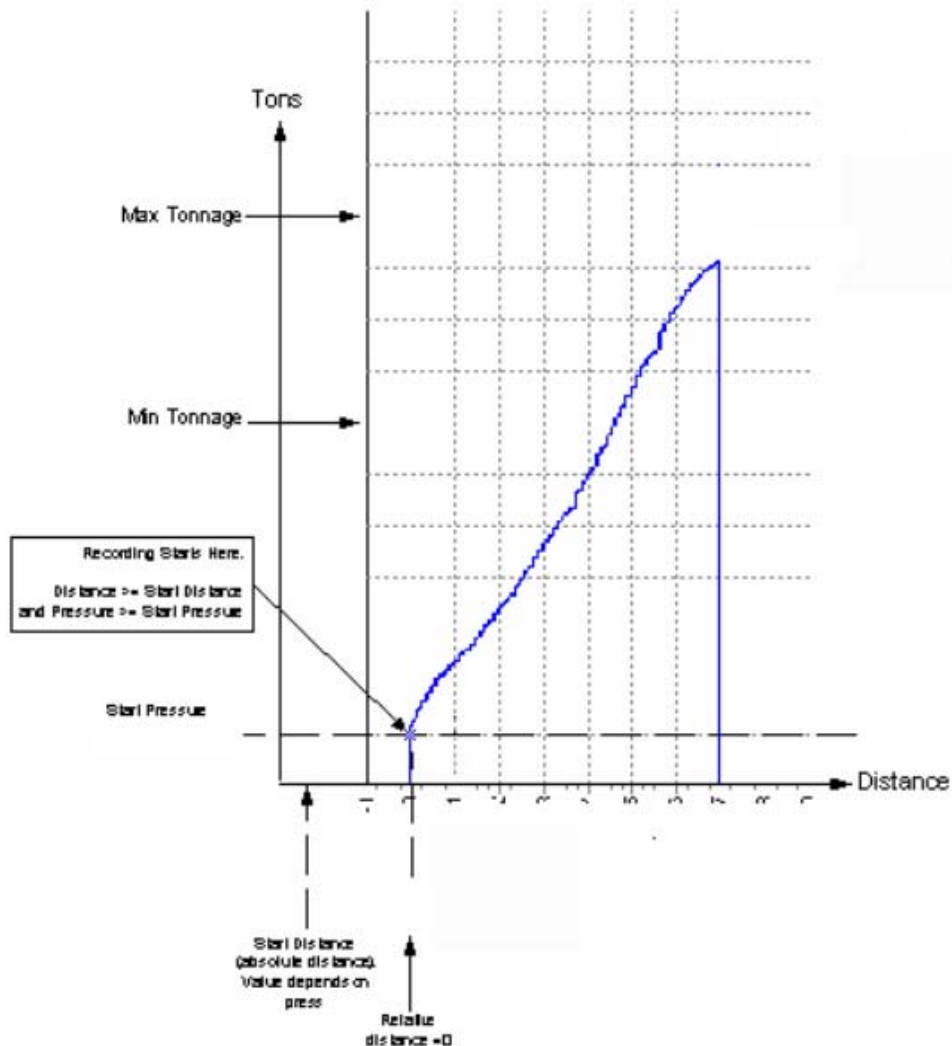
- **Distance Axis Scale** – Maximum scale value for Distance Axis on displayed and printed charts. Minimum scale value is 0.
- **Force Axis Scale** – Maximum scale value for Force Axis on displayed and printed charts. Minimum scale value is 0.
- **Chart Reset Time** – Time in seconds after a mount that the chart will be displayed. Set from 0 to 90 seconds.
- **Distance Axis Label** – Distance axis label on displayed and printed charts
- **Force Axis Label** – Force axis label on displayed and printed charts
- **Wheel String Label** – Description for string value that operator enters for each wheel (normally should be Wheel Type)
- **Wheel Number Label** – Description for number value that operator enters for each wheel (Wheel Diameter or Tape Size)

59.99	SETUP - Recording Disabled...	265.0			
INCH	2/16/2006 3:43:19 PM	TONS			
DISTANCE AXIS SCALE		DISTANCE AXIS LABEL			
<input type="text" value="8"/>	<input type="button" value="▲"/> <input type="button" value="▼"/>	<input type="text" value="INCH"/> <input type="button" value="HELP"/>			
<small>Maximum scale value for Distance axis on displayed and printed chart. Minimum scale value is 0.</small>		<small>Distance axis label on displayed and printed chart.</small>			
FORCE AXIS SCALE		FORCE AXIS LABEL			
<input type="text" value="200"/>	<input type="button" value="▲"/> <input type="button" value="▼"/>	<input type="text" value="TONS"/> <input type="button" value="HELP"/>			
<small>Maximum scale value for Force axis on displayed and printed chart. Minimum scale value is 0.</small>		<small>Force axis label on displayed and printed chart.</small>			
CHART RESET TIME		WHEEL STRING LABEL			
<input type="text" value="5"/>	<input type="button" value="▲"/> <input type="button" value="▼"/>	<input type="text" value="WHEEL TYPE"/> <input type="button" value="HELP"/>			
<small>Time in seconds after a mount that the chart will be displayed. Set from 0 - 90 seconds.</small>		<small>Label for wheel string data field.</small>			
		WHEEL NUMBER LABEL			
		<input type="text" value="WHEEL DIA"/> <input type="button" value="HELP"/>			
		<small>Label for wheel number data field.</small>			
GENERAL	CHART	PRESS	CALIBRATE	EXIT	
WHEEL PRESS GAGE		Version 1.0.0.7		ARKANSAS INDUSTRIAL COMPUTING, INC.	

Press

This setup page is used to configure how the recorder reacts while mounting a wheel.

- **Start Distance**
 - o The distance reading before recording mode starts must be greater than this value to trigger chart recording mode. This value is also set during Distance Calibration. Once the recording mode is triggered, the displayed distance value will be relative to the point at which the recording started. Thus, the chart will display only the distance moved during the mount.
- **Start Pressure**
 - o This is the other trigger to start recording. The force must be greater than this value at the same time that the distance reading is greater than Start Distance.
- **Reset Pressure**
 - o If the distance reading is less than Start Distance and the force reading is less than this value, then the recording chart will be reset and cleared. This allows “bumping” of the wheel prior to the mount.



- **Sensitivity**
 - o This value will alter the sensitivity of the force and distance readings. A higher value will be more sensitive to fast changes in force or distance. The value ranges from 0 to 99.
- **Force Drop Percent**
 - o During the mount recording, the force peak is constantly evaluated. When the force decreases by this percentage from the peak, then the recording is finished. Force **MUST** drop by this amount to finish the recording. Also, this value may have to be increased if any force dips during the mount cause a premature ending of recording. Set the value from 5% to 90%.

12.00	SETUP - Recording Disabled...	150.0
INCH	2/16/2006 3:25:02 PM	TONS
<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;">START DISTANCE</p> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 10px; font-size: 24pt; width: 40%;">12.0</div> <div style="text-align: center;"> <input type="button" value="▲"/> <input type="button" value="▼"/> </div> <div style="font-size: 10pt; width: 50%;"> Distance must be greater than this value for recording to start. This value is also set during Distance Calibration. </div> </div> </div>		<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;">SENSITIVITY</p> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 10px; font-size: 24pt; width: 40%;">75.1</div> <div style="text-align: center;"> <input type="button" value="▲"/> <input type="button" value="▼"/> </div> <div style="font-size: 10pt; width: 50%;"> Change this value from 0 - 99.9 to alter the sensitivity of the Force and Distance readings. A higher value will be more sensitive to fast changes in force or distance. </div> </div> </div>
<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;">START FORCE</p> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 10px; font-size: 24pt; width: 40%;">5</div> <div style="text-align: center;"> <input type="button" value="▲"/> <input type="button" value="▼"/> </div> <div style="font-size: 10pt; width: 50%;"> Force must be greater than this value for recording to start. </div> </div> </div>		<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;">FORCE DROP PERCENT</p> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 10px; font-size: 24pt; width: 40%;">10</div> <div style="text-align: center;"> <input type="button" value="▲"/> <input type="button" value="▼"/> </div> <div style="font-size: 10pt; width: 50%;"> When recording a mount, if force drops by this percentage from the peak value, then the recording is finished. Force MUST drop by this amount to finish the recording. Set from 5 - 90 %. </div> </div> </div>
<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;">RESET FORCE</p> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 10px; font-size: 24pt; width: 40%;">10.0</div> <div style="text-align: center;"> <input type="button" value="▲"/> <input type="button" value="▼"/> </div> <div style="font-size: 10pt; width: 50%;"> If Distance < Start Distance and Force < Reset Force, the mounting graph will be reset. This allows for bumping the wheel. </div> </div> </div>		
GENERAL	CHART	PRESS
CALIBRATE		EXIT
WHEEL PRESS GAGE	Version 1.0.0.7	ARKANSAS INDUSTRIAL COMPUTING, INC.

Calibration

From the Calibration screen in setup, the Distance and Force calibration sequences can be started by pressing the respective Calibrate buttons. You may also print the current calibration report by pressing the Print Calibration Report button. Once you have completed a valid calibration for Distance or Force, then you may save that calibration by pressing the respective Save as Default button. If you have trouble calibrating in the future, you can restore the saved calibration by pressing the respective Restore Default button. The calibration numbers are stored in the C:\WP\wpg.ini configuration file.

Once you have completed a calibration sequence, you will be returned to this screen. You should check the calibration from this screen **before exiting setup**. If you exit setup with an invalid calibration you may not be able to operate the program. If the WPG goes into recording mode because of invalid calibration values, wait for 5 minutes and you will see a prompt asking if you want to enter setup again.

Distance Calibration		Force Calibration			
	DEFAULT	CURRENT		DEFAULT	CURRENT
Gain	0.005833738	0.014648438	Gain	0.096852300	0.078304926
Offset	-11.889158969	0.000000000	Offset	-196.610169492	0.000000000
	Restore Default >	< Save as Default		Restore Default >	< Save as Default

Buttons: Calibrate, Print Calibration Report, Calibrate

Navigation: GENERAL, CHART, PRESS, CALIBRATE, EXIT

Footer: WHEEL PRESS GAGE, Version 1.0.0.5, ARKANSAS INDUSTRIAL COMPUTING, INC.

Distance

The calibration of the distance transducer is based on recording the values of 2 positions of travel: one low and one high.

Low Point

Position the ram so that it is fully retracted. Enter the Low Calibration Point value (normally 0) and press the Next button at the bottom right of the screen.

High Point

Now move the ram to the fully extended position and measure how far it has moved. Enter the measured value as the High Calibration Point below. Press the Next button while the ram is **still in the extended position.**

Accept Calibration

The Counts value for the Low Calibration Point and High Calibration Point should differ by at least 1000 (assuming the maximum ram stroke is greater than 14 inches). Press the Accept button to save the calibration values.

12.00 **Calibrating Distance...** **1.4**

INCH 2/8/2006 9:33:23 AM TONS

DISTANCE VOLTS
-5 VDC 0 VDC +5 VDC **5.00**

DISTANCE COUNTS
0 2048 4096 **4095**

Press the Accept button to save the Distance Calibration. Press the CANCEL button to quit Distance Calibration.

	<u>Pressure</u>	<u>Counts</u>	<u>Volts</u>
Low Calibration Point:	0.00	2042	-0.01
High Calibration Point:	12.00	4095	5.00

Gain = 0.005845105 Offset = -11.935703848

Cancel **Accept**

GENERAL CHART PRESS CALIBRATE EXIT

WHEEL PRESS GAGE Version 1.0.0.5 ARKANSAS INDUSTRIAL COMPUTING, INC.

Start Distance

To finalize the distance calibration, move the press ram to the minimum distance for contacting the axle or wheel and retract another 2 inches. Press the Finish button. This will be the Start Distance point for graphing purposes. The distances must be greater than this value for the Wheel Press Gage to start recording a mounting graph.

The screenshot shows the 'Calibrating Distance...' screen of the Wheel Press Gage software. At the top, a large green display shows '12.00' on the left and '1.5' on the right. The central area is black with the text 'Calibrating Distance...' in blue. Below this, a cyan bar contains 'INCH' on the left, a date and time '2/8/2006 9:33:54 AM' in the center, and 'TONS' on the right. The main display area has two horizontal bar graphs. The first is labeled 'DISTANCE VOLTS' and ranges from -5 VDC to +5 VDC, with a green bar extending to the right and a large green display showing '5.00'. The second is labeled 'DISTANCE COUNTS' and ranges from 0 to 4096, with a green bar extending to the right and a large green display showing '4095'. Below the graphs is a text instruction: 'Move the press ram to the minimum contact position of the axle, then retract the ram to leave a 2 inch gap. Press the FINISH button below when done. Start Distance will be set at this point. Press the CANCEL button to quit.' A schematic diagram of the press ram and axle assembly is shown in the center. At the bottom of the main display area are two buttons: a red 'Cancel' button on the left and a green 'Finish' button on the right. The bottom of the screen features a navigation bar with buttons for 'GENERAL', 'CHART', 'PRESS', 'CALIBRATE', and 'EXIT'. The footer contains the text 'WHEEL PRESS GAGE', 'Version 1.0.0.5', and 'ARKANSAS INDUSTRIAL COMPUTING, INC.'

Force

The Force calibration is accomplished by recording the signal from the pressure transducer and matching those values to the press Master Gage (dial gauge) in units of force (normally Tons). Two values of the pressure transducer are recorded, one on the low end and one of the high end of the range used during the press.

First, attach a pressure hand pump to the quick-connect valve located next to the pressure transducer. Close the hand valve to isolate the pressure transducer and Master Gage from the press hydraulic system.

Low Point

Enter a value in Force units (normally Tons) for the Force Low Calibration Point. Now pump the hand pump to produce that exact number for Force units on the Master Gage. Once the Master Gage reading matches the entered Force Low Calibration Point value exactly, press the next button.

High Point

Enter a value in Force units (normally Tons) for the Force High Calibration Point. Now pump the hand pump to produce that exact number of Force units on the Master Gage. Once the Master Gage reading exactly matches the entered Force High Calibration Point value, press the Next button.

Accept Calibration

The Counts value for the Low Calibration Point and High Calibration Point should differ by at least 1000 (assuming a properly sized press ram). Press the Accept button to save the calibration values.

0.00 Calibrating Force... 200.0

INCH 2/8/2006 9:35:26 AM TONS

FORCE VOLTS 5.00

FORCE COUNTS 4095

Press the Accept button to save the Force Calibration. Press the CANCEL button to quit Force Calibration.

	Force	Counts	Volts
Low Calibration Point:	5	2094	0.11
High Calibration Point:	150	4095	5.00

Gain = 0.072463768 Offset = -146.739130435

Cancel Accept

GENERAL CHART PRESS CALIBRATE EXIT

WHEEL PRESS GAGE Version 1.0.0.5 ARKANSAS INDUSTRIAL COMPUTING, INC.

Installation

There are three main components of the system to be installed.

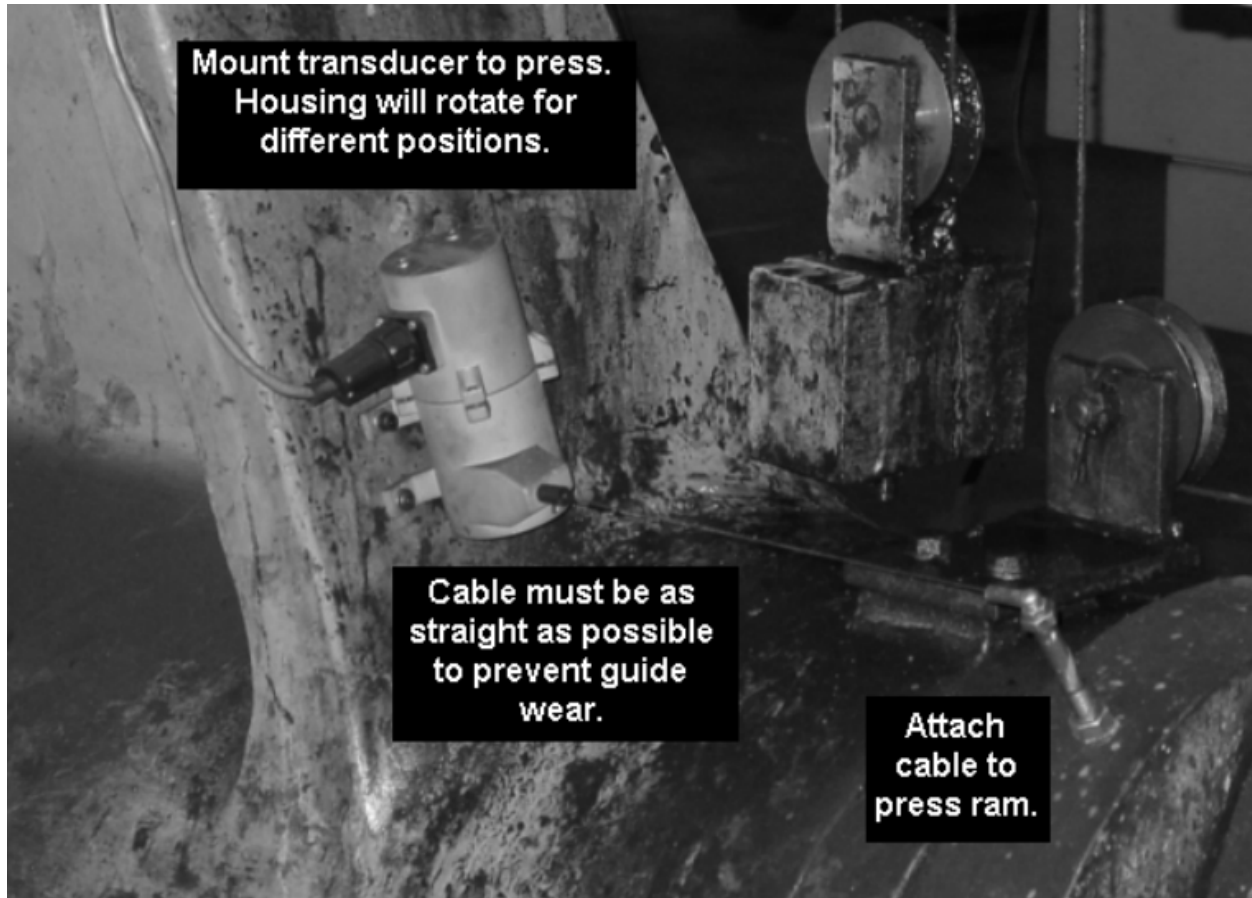
WPG Enclosure – The WPG enclosure should be mounted as close to the press as possible so that the operator can easily view the chart while operating the press. The box should be protected from any excessive vibration or shock caused by press operation.

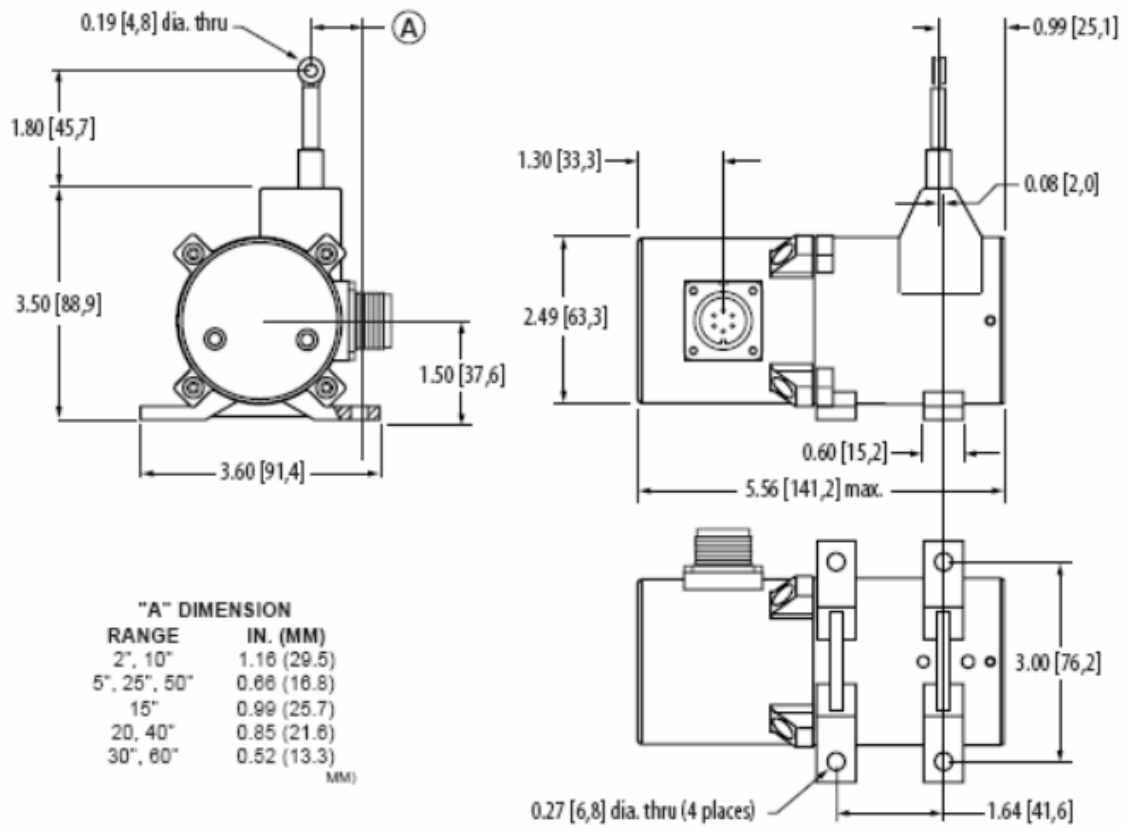
Distance Transducer – The distance transducer is used to record the linear position of the press ram. It uses a stainless steel cable that must be attached to the ram. The transducer itself must be mounted to the press.

Pressure Transducer – The pressure transducer must be installed into the hydraulic system lines as closely as possible to the press Master Gage (dial gauge).

Distance Transducer

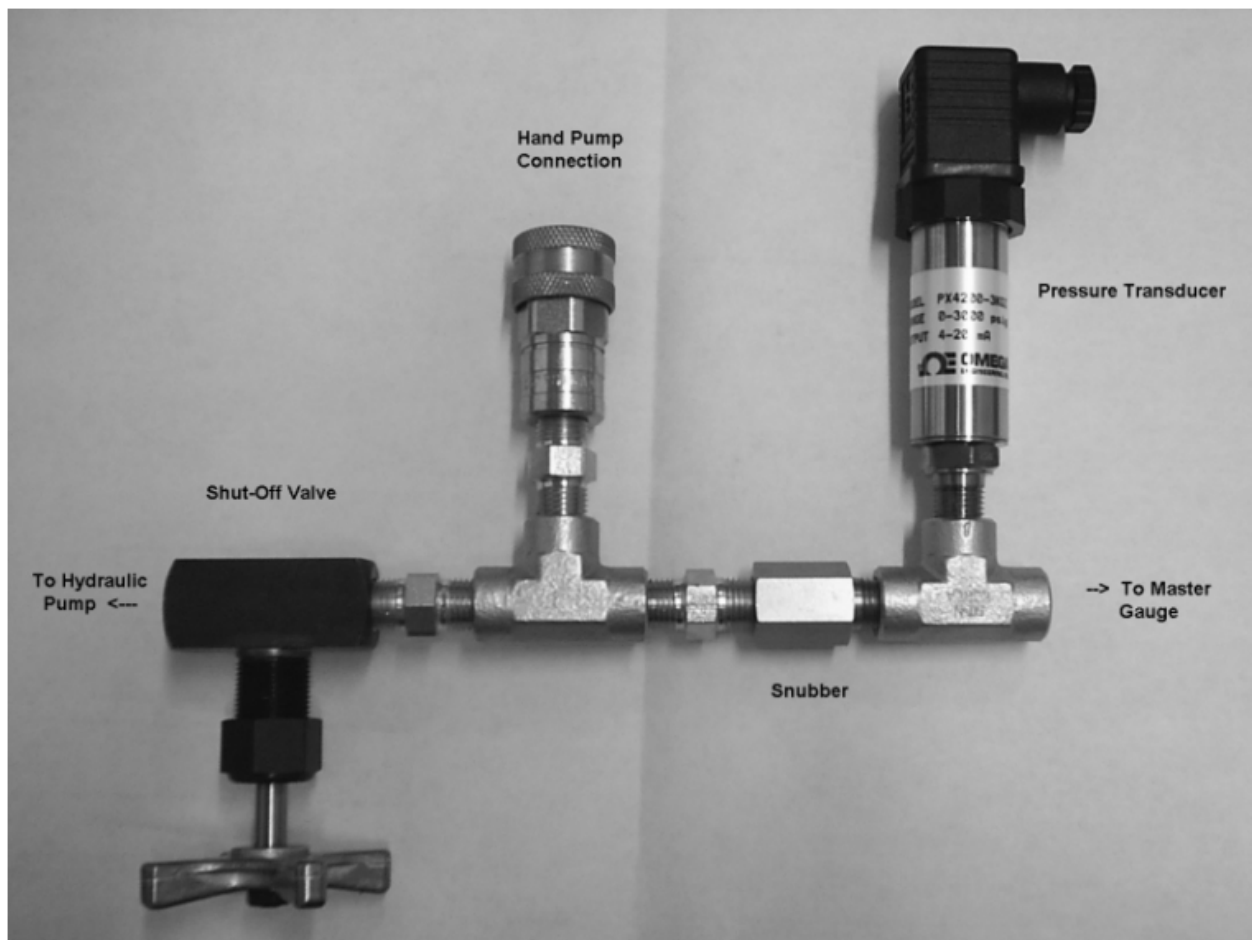
The Distance Transducer cable must be attached to the end of the press ram cylinder so that the cable extends in parallel with the ram. The Distance Transducer body should be mounted to the press. The cable should be as straight as possible (both horizontally and vertically) to prevent cable guide wear and must be free from obstructions for the full length of the ram stroke.



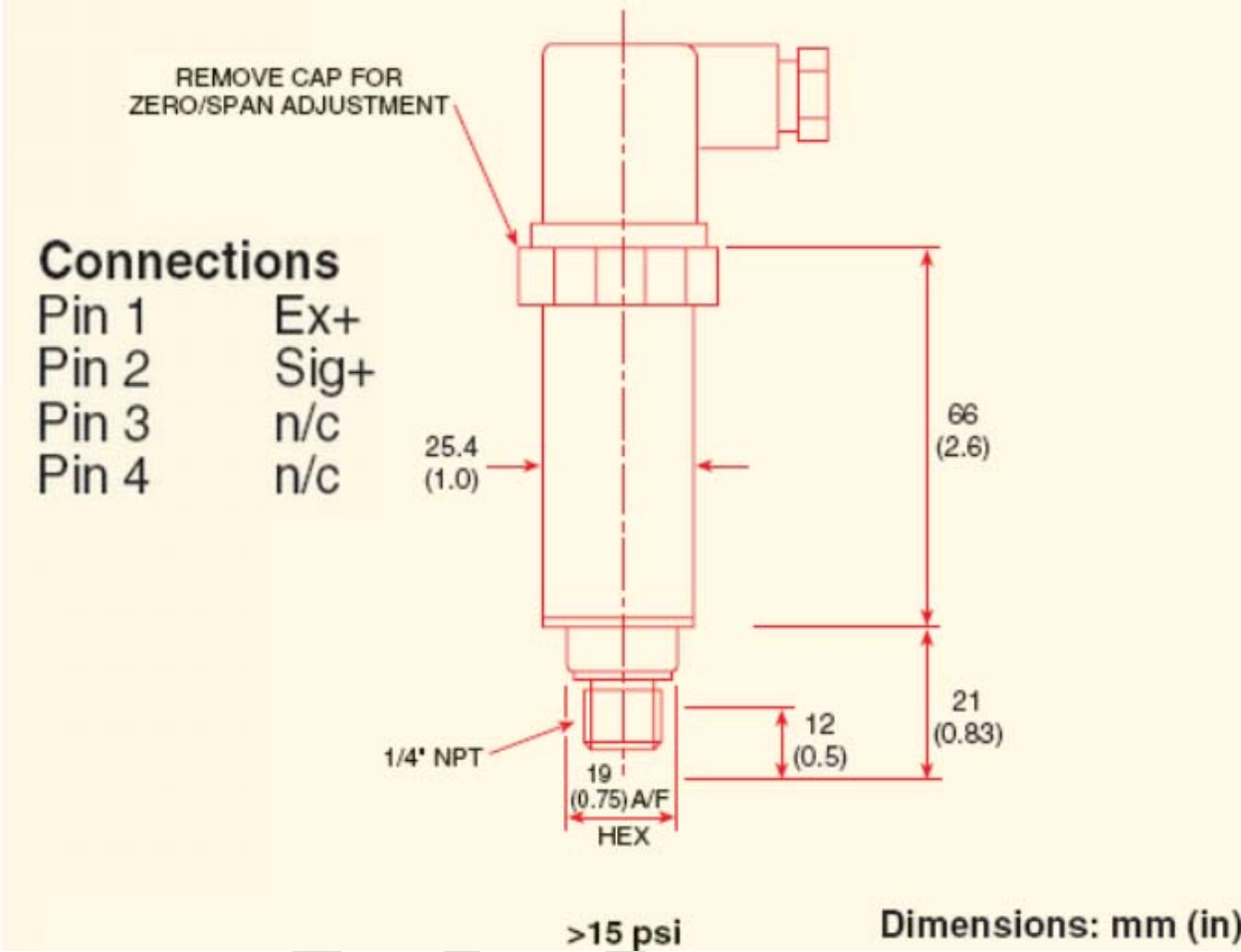


Pressure Transduce

The pressure transducer and associated components must be installed so that it can be isolated with the master gage (dial pressure gauge) to allow for calibration. In the following picture, the fittings supplied should be inserted into the hydraulic line as closely to the master gage as possible. The Shut-Off valve should be closed **only during calibration** to isolate the Hand Pump connection, pressure transducer, and master gage from the rest of the hydraulic system.



Once the Pressure Transducer is installed into the hydraulic line, the cable must be run to the recorder. 24V DC loop power is supplied to the recorder on pin 1. The 4-20ma measurement signal is output to the recorder on pin 2.



Power Requirements

The Wheel Press Gage requires computer grade 120V AC power. Computer grade power is defined as electricity meeting the Institute of Electrical and Electronic Engineers Standard 446-1987. This standard sets time and voltage intervals which electronic equipment must tolerate without malfunction.

A good quality Uninterruptible Power Supply is highly recommended if shop power is subject to frequent surges or sags (such as may happen when other nearby equipment starts or stops).

DRAFT

Appendix A: Frequently Asked Questions (FAQ)

<Insert a list of the most common problems/questions along with their solutions. >

<Example>

Q. How do I ...?

A. Verify ... If that doesn't solve your problem you can also try...

Q. When I do XYZ I get results PDQ. What could be wrong?

A. You should be performing steps ABC. Try the following...

</Example>

DRAFT

Appendix B: License

WHEEL SHOP MANGEMENT SUITE END USER LICENCSE AGREEMENT

IMPORTANT NOTICE: Read Before Installing or Using Software

The following software products offered to you directly by Arkansas Industrial Computing (“AIC”) of 6100 Getty Drive, Suite N, North Little Rock, AR 72117 (voice 501-834-9540) is offered only for use in accordance with the terms and conditions of the WSMS End User License Agreement below.

BY INSTALLING OR USING ANY LICENSED SOFTWARE YOU WILL INDICATE THAT YOU HAVE READ, UNDERSTOOD, AND ACCEPT THESE TERMS AND CONDITIONS AND BECOME A PARTY TO THIS AGREEMENT. IF YOU ARE UNABLE OR UNWILLING TO ENTER AND COMPLY WITH THIS AGREEMENT, DO NOT ATTEMPT TO INSTALL OR USE ANY LICENSED SOFTWARE. INSTEAD, PROMPTLY RETURN ANY MATERIALS THAT WERE PROVIDED TO YOU. CONTACT AIC IF YOU WISH TO DISCUSS THE AGREEMENT BELOW, BEFORE YOU ATTEMPT TO INSTALL OR USE ANY PRODUCT.

WSMS END USER LICENSE AGREEMENT

LICENSE: Subject to the terms and conditions of this Agreement, AIC hereby grants to you a non-exclusive, non-transferable license to use the Licensed Software on one computer. This includes reproducing the Licensed Software, but only as reasonably required to ensure appropriate back-up practices are followed. All copies must bear all copyright and other proprietary rights notices which appear on the Licensed Software as originally provided by AIC. Subject to the license expressly granted above, you obtain no right, title, interest or other license in or to any Product, including but not limited to any copyright, patent, trade secret, trademark, or other proprietary rights therein. All whole and partial copies of the Licensed Software remain the property of AIC and will be considered part of the Licensed Software for the purpose of this Agreement.

Unless expressly permitted by this Agreement, or otherwise by applicable law or by AIC in writing, you shall not: (i) use, reproduce, modify, adapt, translate, update or transmit any Licensed Software, in whole or in part; (ii) rent, lease, license, transfer, or otherwise provide access to any Licensed Software; (iii) alter, remove, or cover trademarks or proprietary notices in or on any Licensed Software; (iv) export any Licensed Software from the country in which it was provided to you by AIC; (v) decompile, disassemble, decrypt, extract or otherwise attempt or assist others to reverse engineer any Licensed Software, except as necessary, when permitted by an applicable law, to correct defects or achieve interoperability with complimentary programs, for your purposes only, but only if AIC has refused to provide the necessary

information or assistance. Unless AIC has provided you with express written consent, the Licensed Software may not be used in any application in which the failure of the Licensed Software could lead directly to death, personal injury, or severe physical or property damage (collectively, "High-Risk Activities"). AIC EXPRESSLY DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY OR CONDITION OF FITNESS FOR HIGH-RISK ACTIVITIES.

WARRANTY: AIC cannot warrant that any Licensed Software will function in accordance with related documentation in every combination of hardware platform, software environment, and Licensed Software configuration.

LIMITATIONS: EXCEPT AS EXPRESSLY WARRANTED ABOVE, THE LICENSED SOFTWARE AND ANY ASSOCIATED AIC MEDIA ARE PROVIDED "AS IS" WITHOUT OTHER WARRANTIES OR CONDITIONS OF ANY KIND, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. YOU ASSUME THE ENTIRE RISK AS TO THE RESULTS AND PERFORMANCE OF THE LICENSED SOFTWARE. NOTHING STATED IN THIS AGREEMENT WILL IMPLY THAT THE OPERATION OF ANY LICENSED SOFTWARE WILL BE UNINTERRUPTED OR ERROR FREE OR THAT ERRORS WILL BE CORRECTED. OTHER WRITTEN OR ORAL STATEMENTS BY AIC, ITS REPRESENTATIVES OR OTHERS DO NOT CONSTITUTE WARRANTIES OF AIC.

IN NO EVENT WILL AIC (OR IT'S OFFICERS, EMPLOYEES, AGENTS, SUPPLIERS, DISTRIBUTORS, OR LICENSORS - COLLECTIVELY "ITS REPRESENTATIVES") BE LIABLE TO YOU FOR ANY INDIRECT, INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOST REVENUE, LOST OR DAMAGED DATA OR OTHER COMMERCIAL OR ECONOMIC LOSS, ARISING OUT OF OR RELATING TO ANY BREACH OF THIS AGREEMENT, ANY USE OR INABILITY TO USE THE LICENSED SOFTWARE, OR ANY CLAIM MADE BY A THIRD PARTY, EVEN IF AIC OR IT'S REPRESENTATIVES HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE OR CLAIM.

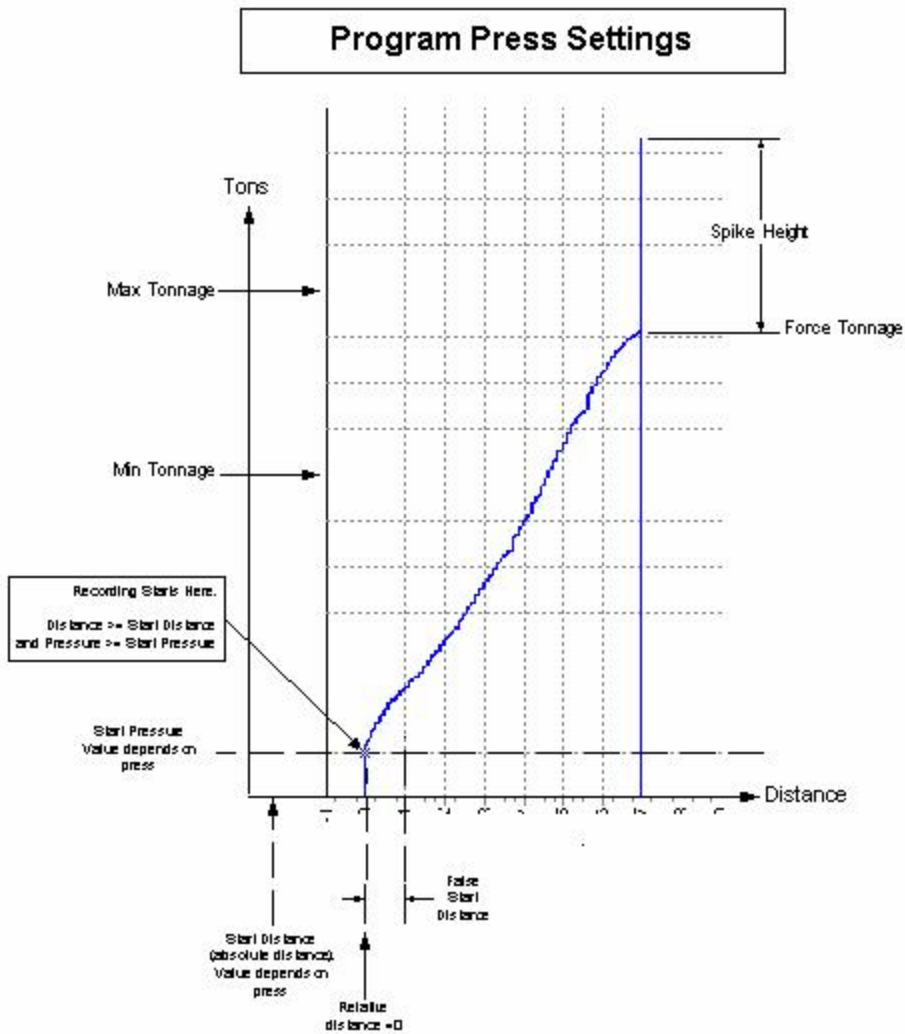
IN NO EVENT WILL THE AGGREGATE LIABILITY OF AIC AND IT'S REPRESENTATIVES FOR ANY DAMAGES OR CLAIMS ARISING OUT OF OR RELATING TO THIS AGREEMENT OR ANY LICENSED SOFTWARE, WHETHER IN CONTRACT, TORT, OR OTHERWISE, EXCEED THE LICENSE FEES YOU PAID FOR THE USE OF THE LICENSED SOFTWARE UNDER THIS AGREEMENT. AIC'S AND IT'S REPRESENTATIVE'S LIMITATION OF LIABILITY IS CUMULATIVE WITH ALL OF AIC'S AND IT'S REPRESENTATIVE'S PAYMENTS IN SATISFACTION OF THEIR LIABILITIES BEING AGGREGATED TO DETERMINE SATISFACTION OF THE LIMIT.

These limitations shall apply whether or not the alleged breach is a fundamental breach of contract. Some jurisdictions curtail limitations of liability for incidental or consequential damages, and/or limitations of implied warranties. Therefore, to the extent prohibited by applicable law, the above limitations may not apply to you.

TERM: This Agreement commences upon your acceptance (as described above) and will end when terminated. You may terminate this Agreement at any time. It will be deemed to terminate immediately if you fail to comply with any material term herein. Upon termination, your license rights end and you shall immediately destroy all whole or partial copies of all Licensed Software in your possession or control.

GENERAL: This Agreement is governed by and will be construed in accordance with the laws in force in the State of Arkansas, United States of America without regard to the conflict of laws provisions therein. The parties expressly disclaim the provisions of the United Nations Convention on Contracts for the International Sale of Goods. This Agreement constitutes the entire agreement between you and AIC pertaining to the Licensed Software and any associated AIC media, and supersedes all prior or contemporaneous agreements, understandings, negotiations, and discussions, whether oral or written. No amendment or waiver of any term of this Agreement will be binding unless executed in writing by the parties. Subject to the export restrictions provided above, you are entitled to assign this Agreement to a third party who has provided AIC with prior written acknowledgement of their acceptance of the terms and conditions herein. In such a case you will transfer all copies of the Licensed Software and any associated media to the assignee. The provisions of this Agreement will ensure to the benefit of and will be binding upon the parties and their respective successors and permitted assigns. If any provision of this Agreement is held by a court of competent jurisdiction to be illegal, invalid, or unenforceable, the remaining provisions shall remain in full force and effect.

Appendix C: Press Settings



Notes:

1. Must meet start distance (absolute distance) and start pressure to begin recording.
2. Once recording begins, if pressure drops to below start pressure before false start distance is reached, the recording stops and distance resets to 0. This is to prevent recording 'bumping'.
3. Once the false start distance is exceeded then the chart is stored as is.

Appendix D: Contact Information

Wheel Shop Automation
6100 Getty Drive
Suite N
Sherwood, AR 72117

Online Support

Visit our website at www.wheelshopautomation.com for 24/7 technical information and available downloads

Email us at support@wheelshopautomation.com

Phone Support (Existing support contract or credit card required)

Call 1-501-834-9540 or 1-877-834-9540 (toll free)

DRAFT