Verso/Groundworks setup

Windows settings

Turn on (use desktop mode) search > tablet mode > change when I sign in (to use desktop mode)

Settings	- D ×
命 Home	Tablet mode
Find a setting	
System	When I sign in
🖵 Display	When this device automatically switches tablet mode on or off
디까) Sound	Always ask me before switching
Notifications & actions	Hide app icons on the taskbar in tablet mode
J Focus assist	On On
🖒 Power & sleep	Automatically hide the taskbar in tablet mode Off
📼 Storage	
🕞 Tablet mode	
버 Multitasking	
X Shared experiences	

Turn on keyboard (when in desktop mode) search > typing settings > show touch keypad when not in tablet mode.





search groundworks > open file location and copy groundworks file.

From desktop press (Windows key + R) then type shell:startup in box

•		0		🖅 Run	×
	Navier and and	Start typing to search for apps, files, and settings.		٨	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
		• 3 ⁸ .4 5 6 7 • r t y u t	× 9 0 ·	Open:	shell:startup 🗸 🗸
	r © Shift z Fn © Ctrl	a r g h j x c v b n m At	k 1 2 Enter At Ctrl C > me		OK Cancel Browse

paste groundworks file into startup folder (change keyboard layout if there isn't a windows key top left icon then 3rd keyboard icon)



check 750's first to confirm they are 192.168.88.1 and 192.168.88.2 (both on gateway 192.168.88.3)



Search control panel in windows > Network and internet > Network and Sharing Center > Ethernet 3





Then go to properties > In drop down menu highlight 4(TCP/IPv4 > properties and change from obtain automatically to use the following IP address use IP 192.168.88.3 and subnet mask 255 255 255 0

Ethernet 3 Status	Х	Ethernet 3 Properties ×
General		Networking Sharing
Connection IPv4 Connectivity: No network access IPv6 Connectivity: No network access Media State: Enabled Duration: 00:03:03 Speed: 100.0 Mbps Details Activity Sent — Received	_	Connect using: ASIX AX88772B USB2.0 to Fast Ethemet Adapter Configure This connection uses the following items: Client for Microsoft Networks File and Printer Sharing for Microsoft Networks Gas Packet Scheduler Altremet Protocol Version 4 (TCP/IPv4) Microsoft Network Adapter Multiplexor Protocol Microsoft LLDP Protocol Driver Altremet Protocol Version 6 (TCP/IPv6) C
Packets: 109 0		Install Uninstall Properties Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Close		OK Cancel
General You can get IP settings assigned a this capability. Otherwise, you nee for the appropriate IP settings.	Pv4	4) Properties × omatically if your network supports to ask your network administrator ally
IP address: Subnet mask: Default gateway:	-	192 . 168 . 88 . 3 255 . 255 . 255 . 0
 Obtain DNS server address a Use the following DNS server Preferred DNS server: Alternate DNS server: Validate settings upon exit 	auto ad	omatically idresses: Advanced
		OK Cancel

enable auto stop on Hercules display

Hercules configuration

Requirement is to turn on the Auto depth stop. Once the auto depth stop is turned on, the machine will automatically find the GPS and use the information from Groundworks



GPS range did not pop up.= some times shown

Groundworks Machine Setup

At Groundworks login screen select left lower icon and add Operator as user use US Survey feet.

Sign into Trimble® Groundwork	S New User
	First name
Operator	Surname
80B ¥	PIN
	Unit US Survey Feet
Sign In	
	CANCEL ACCEPT

At Groundworks login screen select right lower icon and import machine file (.xml)

Sian into Trimble® Groundworks		Select Machine			
Sign.			1.		
	Operator v		808	······································	٦
	80B v				
	Sign In				
				+ NEW MPORT ACCEPT	

On Hercules STR20 models you can use any STR20 machine file as long as it checks in and then rename the file.

Set up radio channel to start on groundworks startup

Left side menu in bottom right click on connections and make sure your not connected.



Then go to groundworks settings > GNSS setup > select configure radio at startup (this will not work if connected)

Settings				GNSS Setup	
GNSS Setup	O.m Measure Up	Barge	Tool Wear	Connection type Correction Data Setup Type	Trimble TCP/IP ~ Radio ~
Ports, IESS, Internet, Radio	Measurements and geometry configuration	Measurements and geometry configuration	Tool wear offset adjustments	Configure radio at startup Trimble TCP/IP Number of receivers	2
System	Account			Configure heading receiver 1	Open
ICC, toterances and system configuration	Units, permissions and PIN			IP address (Heading receiver) 1	192.168.88.2

GNSS setup

Groundworks settings > GNSS setup > GNSS data quality settings (Change HRMS & VRMS tolerance to .25)



GNSS Setup



Navigate to Tool

Groundworks settings > System > Advanced > change both Bull's-eye navigation to (tool)



Set up display view to use 2 panes. Right side top icon > 2pane (1 plan 2 Bull's-eye)



Connection

Left side menu > Bottom right select connections > Select Automatically connect > select connect all



Project Setup to check machine in

Left side menu select project setup > project folder magnifying glass >

÷	Groundworks	lwor	ks		Q ,	1 R	«	Project Setup)				
Activ test	ve Project t	6		Hardware	not connected			Project			94 10	25	8 K X K X
Ø	Project Setup			GNSS failed to o Trimble OEM try 2/22/2023 8:56:5	ionnect ring to connect i4 AM		98 97 96 98 98 98 98 98	test					
5	Transfer files				X Dismiss			Select Design	۵]			
¢	Reports		ĥ.					°°°° Pile Plan					
æ	Diagnostics						द्व द्व द्व द्व	Select Pile Plan	۵]			
\$	Settings	Γ											
?	About	\setminus					11,5 11,2 11,7 11,7 11,5 11,5 11,5 11,5 11,5 11,5			.10			
							18 192 193 193 193 193 193 193 193 193 193 193						
		Y				U				0.6 ft;			
		L			_	-		Υ					
ڻ ا			sd N/A	Heading N/A	Cut Off Elv	eiv N/A		CLOSE					

New > Name Project > Import DC file (from collector via usb) > accept > close.

Sele	ect Project			Select Project	
	All Projects		Q	All Projects	Q
	Name 🔺			Name 🔺	
	test			Project created! Do you want to create a new calibration, import an existing calibration, or proceed with no calibration? + CREATE	
	X CANCEL	+ NEW IMPORT	✓ ACCEPT	× + ↓ CANCEL NEW IMPORT	ACCEPT

Project setup cont.

Right side menu > select + > enter coordinate > N E and Elv



Navigate to point to check machine in. when close > auto plumb mast by holding second button down on right joystick

To check autos hold 2nd and 3rd button down at same time on right joystick to bring mast to home position. Move machine 6" from point and hold down 2nd button from top on right joystick to auto find point.

Hold down one of the items at bottom of screen > general settings > this will allow you to view northing easting

N	Tool porthing coordinate	NZA	
E	Tool easting coordinate	NZA	
Elv	Tool elevation coordinate	NZA	
XSIp%	Cross slope of design surface in machine roll axis	N/A	
LF(%)	Long slope of design surface in machine pitch axi	s N/A	
Cut	Vertical distance to active surface	N/A	
Heading	Machine orientation	NZA	
Tool Rotation	Tool orientation	N/A	
Speed (mph)	Estimated speed of machine	N/A	
Distance (miles)	Driving distance of current session	N/A	
Time	Current local time 12	:13:27	
			di

Customers don't use northing and easting so leave display with default items as shown below



5025 to access settings in hercules display to set elevation encoder

Parked regen code 6666

Hercules elevation setup and tool wear

First enter 5025 code into machine settings of the Hercules display. On the next screen on right you can set tool at bottom of mast and then at top of mast. Move tool to bottom of mast > press botton to set bottom > move tool to top of mast and press button to set top. (number at top should be 30,000 to 40,000 and bottom 0-20)

With tool at bottom of mast and hammer compressed measure distance and adjust (W3) to match elevation on display(you can measure to lower wear mark on hammer shaft for initial setup but customer has to check and adjust W3 when on site)

Tool wear is under Settings > Tool wear

Enter Tool Wear Offset		
Wear Adjustment offsets added to tool offset		
Tool Offsets Offsets fram reference paint		
(W1)	In Front v	0 ft.
(W2)	Right Side v	0 ft.
Tool height offset Vertical distance between heading APC and tool in reference position		
(W3)	[0 ft.
X CANCEL		ACCEPT