

COMPUTERSCALES[®] XLi OPERATING INSTRUCTIONS

App version 1.18



Quick Start Instructions




CAPACITY:
Most #'s listed **1500 lbs** (650 kgm) per pad.
Excess weight can damage the load cells.

This tablet uses the Android® operating system. Many functions are similar to 'Smartphones' and it uses a touch screen to operate.

ON: Push and hold for 3 seconds to launch operating system (OS) – about 15 seconds.



Tap the app icon on the Home Page (first up) to launch the ‘app’ **COMPUTERSCALES XLI**. This takes about 5 seconds.

Turn pads on: The green LED will be steady until the LF link is established between the pads and the tablet (usually less than 10 seconds). Then the green LEDs will flash. ‘**NO DATA**’ indicates tablet is not receiving weights. Be sure pads are on and LEDs are flashing. If pads do not link reboot the app. Tap  at the bottom right, then re-tap the app icon.

Zero: Tap BEFORE putting car on scales. DON'T zero AFTER car is on scales.

Memory: Tap arrows (< & >) to select memory number (1-50, center bottom). Tap **Save to Memory** to save current weights. Memory weights are shown under current weights, indicated by **M**. If you don't want memory numbers to show on the display simply select Memory #0.

Rotate wheel weights on display: Tap on roof of car icon. Weights and car icon rotate in 90° increments. This is helpful if you are standing at the front or the side of the car. The wheel weights are oriented to where you are standing.

‘Sleep’ Mode: To conserve battery power the display goes dark after 30 minutes. To restore push **ON** once (don't hold as when turning tablet on). To manually put into Sleep Mode (save power) push **ON** once (don't hold). Display goes dark. To restore display push **ON** again (don't hold).

To shut system down: (different from ‘Sleep’) Push & HOLD ON for 3 seconds. Display changes. Tap ‘**Power Off**’ and then tap ‘**OK**’. **If you don't do this the tablet battery may be low the next time.** Be sure to turn off all 4 pads too.

Low battery indication: Green indicates good, Orange – batteries are getting low, change soon (about 2 hours left), Red – change now.

Recharge tablet / replace pad batteries: Connect charger at bottom center of tablet. Tablet recharge takes 5-6 hours. Replace pad batteries with 3 ‘AA’ alkaline. Pad batteries last 50-60 hours, tablet 6-8 hours before recharge.

Application Features




High contrast and main app screens

Different Displays: Accessed by swiping your fingertip across the display, side to side.

- **Bright Sunlight Mode:** Swipe your finger left-to-right. This is B&W maximum contrast to allow easier reading in very bright conditions. Swipe back right-to-left to get back to the main screen.

- **Low Battery Indications:**

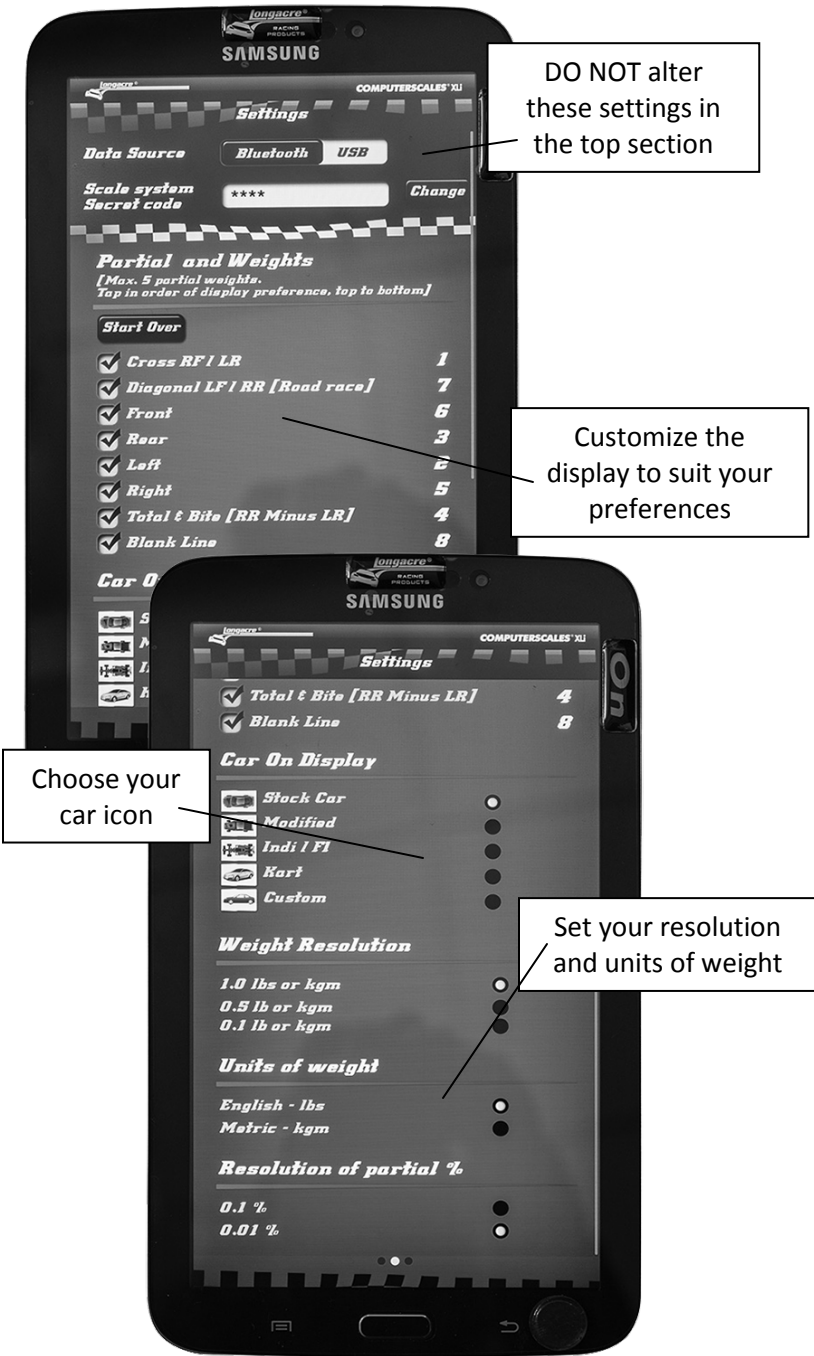
Pad battery indication is an LED on the black pad module – the **green** LED. It is also shown on the tablet by a **green** dot under each of the 4 wheel weights. As batteries get low these all change to **orange** and eventually to **red**. At **orange** you have about 2 hours left. **Red** indicates replace now. Use quality alkaline 'AA' batteries (3 in each pad). Battery access is on the end opposite the black pad module. Remove the 2 Phillips screws on the bottom of the pad to remove the battery holder. Pad batteries last 50-60 hours. No need to change batteries until the low battery indication is shown.

Tablet battery indication is on the display just under the car icon **DEV ● BAT**. You can also go to the tablet Home Page by tapping  at bottom right. Battery level will be shown at the top right with a percentage. **DEV ● BAT** operates the same as the pad battery indicators – green/ yellow/ red.

Note: If there is no 'Low Battery' indication on the pad or tablet screen changing the pad batteries is not necessary and will not change or improve performance. You only need to replace the batteries on pads that show low battery.

Put in Sleep Mode when not being used. This conserves tablet battery life. Tablet can be left on in Sleep Mode while you are working on the car (OK to leave pads on) but should be powered off at the end of the day. Also shut off all 4 pads.

When you are done be sure to **POWER OFF the tablet** (different than **Sleep**). Push **ON** and **hold 3 seconds**. Message comes up. **Tap 'Power Off', then tap 'OK'**. This should be done when you are not going to use the scales for several hours or longer. If not done the tablet battery may be low or dead the next time you want to use the system. Also turn off all 4 pads.



Setup screens

- **Setup Screen:** Swipe your finger right-to-left to enter Setup Mode

DO NOT alter any settings in the top black section of the setup screen. This involves the System ID security code. If this is altered the scales will not function without re-entering the SysID. See instructions enclosed.

- **Setup Mode:** Here you can make changes to suit your preferences. To change the **Partial %s** displayed first tap **Start Over** at the top of the list. (For changes on small buttons consider using the stylus if you have difficulty.) Tap your preferences in the order you want them displayed. The order will be shown at the right. You can even add a blank line to separate groups. Select as many or as few as you want. Up to five will be shown all the time on the main screen but you can easily access any others selected by scrolling the list up or down.

While in the **Setup Mode** you can also change other settings – for example partial % – .1% or .01%, the car icon, weight units, etc. **Here is where you can convert to METRIC.** Select your preferences. These will stay until you change them again. When done, swipe back to the main screen. This automatically ‘saves’ your selections.

‘Car’ icon on screen: There are 4 standard choices: Stock Car, Indy/F1, Modified and Kart. You can also personalize your tablet and have a picture of your car as the icon. Details are included in this manual for a Custom Car Icon or call the factory.

Misc. (but important) Notes

Here are some messages that may come up from time to time:

Tablet battery is low – continue? YES NO

The app wants to turn Bluetooth® on YES NO

The app wants to pair the device YES NO
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The wording may vary slightly. Always answer **YES**. The wrong choice will affect your system’s operation. This is part of the Android® OS Security System. They should not come up often.

General Precautions: • Do not drop the tablet or pads (they have electronics). • Keep the entire system clean and dry. • Do not expose to excess heat or cold - -32° F (0° C) to 120° F (38° C). • Keep the tablet away from strong magnetic fields (caster camber gauge?). • Do not overload the pads (confirm capacity). • Clean the tablet and modules as needed with a soft cloth only. Use no cleaners or chemicals. • Be cautious if you are doing anything in the Settings section of the tablet OS (not part of the app). If you turn Bluetooth function off or un-pair the pads the scales will not operate. Restoration is easy.

A screen saver has been pre-installed on the tablet display. This helps protect it from scratches. Replace when needed. (When you first turn on the tablet the model number will show so you can get the correct replacement.) Using the included stylus helps this also.

Wireless range: This system uses the Bluetooth® wireless protocol. It operates at a power level that does not require an FCC license. The practical operating range is from 30' to as much as 200', depending on conditions. The best range is indoors as the signals bounce off walls. The shortest range is out in the open with nothing else around. Other cars around, machinery, shelving, etc. can affect range also but it is never less than about 30'.

Communication: The LF pad (called 'Master Pad') is the only one that communicates directly with the tablet. The other 3 pads communicate only with the LF Master Pad, which relays their weights, along with its own, to the tablet. This happens several times per second to give you rapid response to weight changes. If you ever need to use this system with a single pad only (weighing gas cans for pit stops or parts from the car) you must use the LF pad. It will work correctly even if it is the only one on. The other 3 positions on the display will show **NO DATA**.

'Sleep' mode: If your tablet has been in 'sleep' mode for more than an hour it may be necessary to reboot the LF pad to reconnect. This is an Android® security function. If you get '**NO DATA**' when you take the tablet out of sleep simply turn off the LF pad, then right back on (no need to do the other 3 – just the LF). This will reset the wireless connection and restart communication. This only takes a few seconds.

To shut system down: Tablet – Push & HOLD ON for 3 seconds. Display changes. Tap 'Power Off' and then tap 'OK'. **If you don't do this the tablet battery may be low the next time.** Be sure to turn off all 4 pads too.

Leave WiFi off unless you specifically need it: This choice is accessed in the Settings section of the tablet OS (not the app). If WiFi is left on the tablet battery life will be less before needing to be charged. Also if you are in a WiFi hotspot and turn the tablet on it may attempt to upgrade the Android® operating system to the latest version. This is an Android® function.

You can allow the tablet to upgrade the operating system if you wish. In the Settings section turn WiFi on. NOTE: When you update the OS you may need to re-enter your SysID security number. If your system does not function after the update (**NO DATA**) see the enclosed instructions for re-entering the SysID. This is simple and takes less than 1 minute. When the OS update is done we recommend that you turn WiFi off. This system operates on Bluetooth® and does not need WiFi in regular use.

Install Custom Car Display Icon

You can have a picture of YOUR car as the display icon: First send us a high quality, high resolution picture of your car in a jpg or other image format. An overhead shot is needed from straight above the car. This will require shooting from a second story (or even a tree). Shots taken from a ladder may not look as expected. Email us the picture to contactus@longacracing.com with your contact info. We will drop out the background, size the image to fit the screen and email it back to you. The image will be named **customcar.png**. Do NOT re-name this as the tablet looks for this name when selecting the custom car option.

NOTE: If the resolution of the picture is not high enough we may not be able to create this custom icon. Take a picture at the largest size and highest resolution. The cost for this service is \$79.00 but may be waived.

Connect the tablet to your PC with a USB connector (at the bottom of the tablet where the charger connects). Tablet must be powered on. Don't open the app at this time.

On the PC, browse to your 'Computer' or 'My Computer' folder. You will see 'SM T210' or similar designation for the tablet. Double click on this to open and then double click on **Tablet**.


Look for a folder named 'Longacre'. If there is not one, right click to create one and name it **Longacre**.

On your PC save the **customcar.png** icon file we email to you to your **Desktop or Documents** folder and then drag and drop it into the **Longacre** folder on the tablet.

Disconnect the USB cable and launch your **COMPUTERSCALES XLi** app.

Swipe to the setup page, scroll down to **Car On Display** and select **Custom**. Swipe back to the main screen and your custom car icon will appear and function just like the others. It will stay until you change it.

Simple Troubleshooting


When you first turn on your system and launch the app if you have any connection problems (**NO DATA** on display and the LF pad LED is not flashing) first reboot the app (off, then back on). Close the app with the  button and restart (no need to shut down the tablet completely – just the app). This is rare. If this does not correct the issue reboot the **LF pad** (off, then back on – LF only).

In operation if you lose the connection (**NO DATA** on display) reboot the LF pad (LF only – off and back on). This can happen if you get out of range with the tablet, then come back in range. On rare occasions the wireless link will not immediately re-establish and rebooting the LF resets the connection. This only takes a few seconds. See main instructions for battery or power issues.

Wheel pads: In this system, the LR, RR & RF pads ‘talk’ only to the LF pad, also called the ‘Master Pad’. It receives the signals from the other 3 pads, adds its weight and transmits all 4 to the tablet. This happens 3 times per second for good response. The green LEDs on the pads do 2 different things. First they indicate the state of the Bluetooth® wireless connection. Flashing indicates connected, steady indicates no connection. In operation all 4 must be flashing. If they are not, reboot (turn off – then back on).

Troubleshooting Connection: ‘**NO DATA**’ indicates the tablet is not receiving weights from the pads. First be sure the pads are on, indicated by a green LED on module inside pad (with On/Off switch and LED). You must have at least the LF pad on. This is the ‘Master Pad’. It communicates with the tablet. The other 3 communicate with the Master Pad only. If green LED is steady – not flashing – there is no communication.

Possible solutions:

- First reboot the Master Pad (turn off and back on). No need to reboot the other 3 pads unless their green LEDs are NOT flashing.
- If it doesn't start working in 5-10 seconds try rebooting the app. Do this by tapping  at the bottom right of the display. The Home Page comes up. Tap the app icon to re-launch the app.
- If this doesn't work (very rare) power down the tablet completely, shut off the pads and start over. Even this takes less than 30 seconds.

Coming out of 'Sleep' mode: If your tablet has been in 'Sleep' mode for more than an hour it may be necessary to reboot the **LF** pad to reconnect. This is an Android® security function. If you get '**NO DATA**' when you take the tablet out of sleep simply turn off the **LF** pad, then right back on (no need to do the other 3 – just the **LF**). This will reset the wireless connection and restart communication. This only takes a few seconds.

Shows 'NO DATA' and pad LEDs are flashing: If you have updated your Android® OS and now the system doesn't work re-enter the SysID on the setup page. See instructions on page 11. Updating the OS can sometimes wipe out the SysID. The pads are communicating with the tablet but not the app.

'Pairing' the pads with the tablet: On rare occurrences the connection between the pads and the tablet – 'Pairing' – will get broken. See instructions on page 14 for re-pairing. This is simple and takes less than 2 minutes. This will be necessary if you change devices – from the tablet to your Smartphone, for example.

Tablet battery: If your tablet will not turn on and you have had the charger connected, try another charger and/or USB cable. Most chargers with USB connections put out the same voltage and can be interchanged. If the charger is functioning you can tap the ON button and a battery image will appear and show the charge state. If it does not, the charger is probably not functioning and the tablet will not operate.

Any other issues: If you are unable to get your system functioning please contact the factory at 360 453-2030 M-F 6:30am to 4:00pm Pacific time. VERY IMPORTANT: Please have a list of ALL symptoms available.

Service: If service is needed please call or email first for an RMA #. Be sure to send all 4 modules and the tablet. Don't send the pads unless requested.

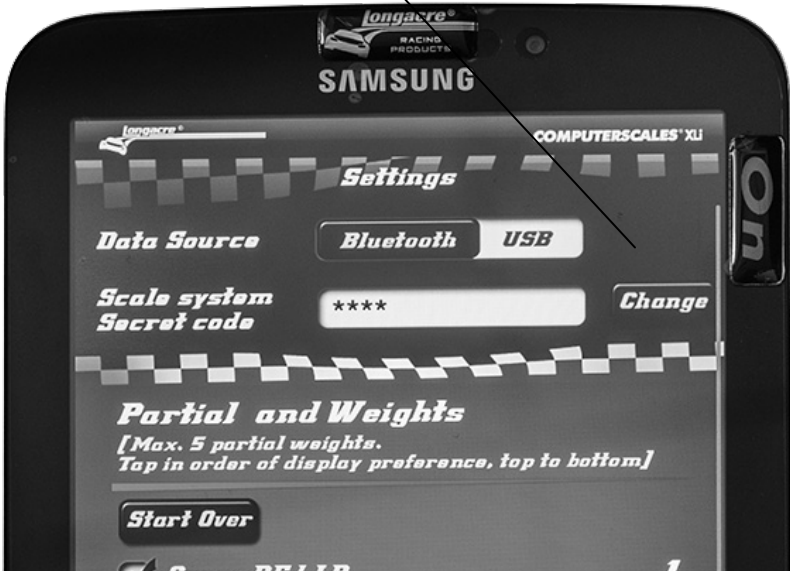
Install (or re-install) SysID (System ID - Secret Code)

Your SysID

Your Serial Number

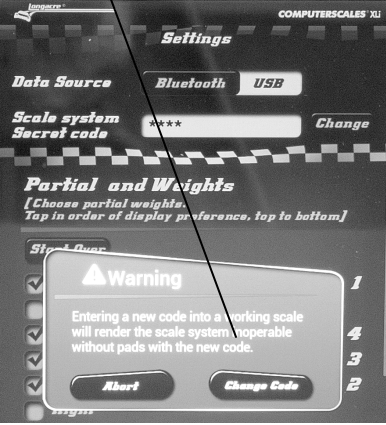
1

From the main display swipe right to left to the Setup Screen – below.
Tap on **CHANGE**



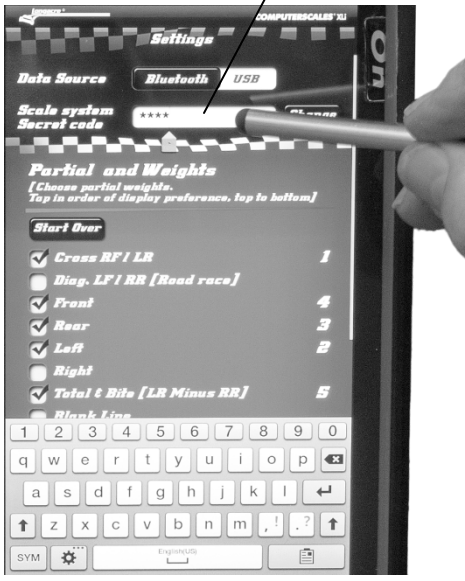
2

Warning message comes up. Tap **Change Code**. Display changes and keyboard appears at the bottom.



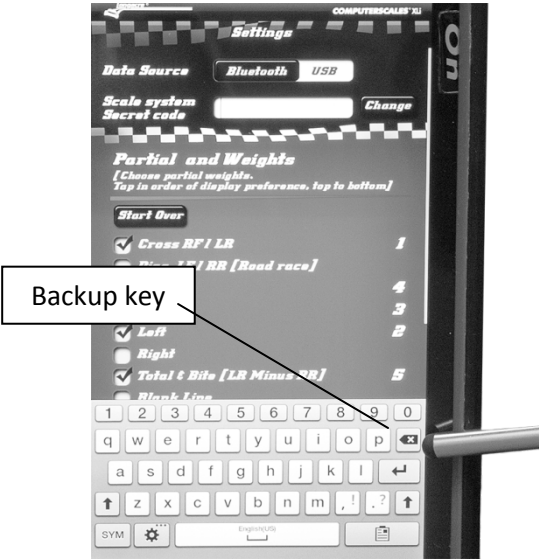
3

Tap on white area of box to right of **** (current SysID – hidden). Blue arrow appears below cursor and ****



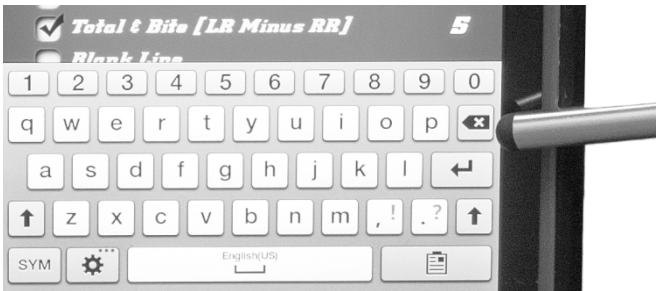
4

Tap Backup key to erase current SysID. Blue arrow shows where the cursor is. All **** must be gone.



5

Enter new SysID on keyboard – 4 characters (may be all numbers or letters, not case sensitive). After you enter the last number or character you are done. Swipe back to the main screen.



In the unlikely event that your system still does not function please check to see if Bluetooth® is still paired. If it is you may have a hardware problem. Please note if the LF pad LED is flashing or steady and contact the factory.

To pair the LF pad with the tablet

Prepare: On the **Left Front** pad there is a very small hole just under the green LED. Get a paper clip, straighten one end and gently insert it into the hole. You will feel a push-button switch (internal button) that clicks when you push it. Again, gently. This is what starts the pairing process. Be ready to perform this procedure.



Begin: Turn on the tablet (don't launch the app now), go to **Settings**, be sure **Bluetooth®** is on (green bar to the right with white I) and see if there is anything under **Paired devices** or **AVAILABLE DEVICES**. It should say **Longacre LS3 Paired**. If not, the pairing has been lost. See below.

Pairing: On the tablet Bluetooth® Settings page at MY DEVICE (top right) tap on the box on the far right saying **Only Visible to paired devices**. You now have 2 minutes to pair the LF pad (plenty of time – see the timer). Go to the LF pad (pad off) and insert the clip to depress and hold the button. While this internal button is depressed turn the pad on with the rocker switch. Continue to hold the internal button with the paper clip. After a few seconds the LED will come on red. At this point release the internal button, then push it once more and immediately release. The LED should change to green and flash, indicating pairing with the tablet. Remember, this must be done within 2 minutes. If you get delayed start over at **Only visible to paired devices**.

If the scale does not start displaying weights (still **NO DATA** on display) you need to re-enter your System ID (scale system secret code). Refer back to page 11. The SysID is also written on the back of the LF pad module on the mounting bracket. Remove the 2 Phillips head screws from the bottom of the pad and lift the black module out slightly, just enough to read the number. It will have 4 characters, possibly numbers and letters, for example 107A or 1046. This is your security code. Record this code and reinstall the module. (There is also a 5-digit number on the bracket. This is your serial number, not needed now.)

Warranty Policy on Tablet Scale Systems

Tablets are warranted for a period of 1 year and the pads for 2 years from the date of retail/consumer sale (not from the date of manufacturer's sale to the dealer as other scale manufacturers do). We will handle any tablet manufacturer's warranty for you since the repaired or replaced tablet needs to be configured, linked to the pad modules and calibrated (remember – the tablet is part of an interconnected system).

For warranty or non-warranty work please return the tablet and all 4 pad modules with battery packs. Please do not send partial systems as we will not be able to complete the service properly. It is not necessary to send the entire pad(s), just the modules inside the pad (removal is easy). This helps keep shipping costs down. All our load cells are matched. There are rare exceptions to this. If you suspect that the actual load cell is causing problems please contact the factory service department for instructions on how to check and confirm this.

The modules can be easily removed from the pads by removing the 4 Phillips head screws on the bottom of the pads, 2 on each end. Slide the black module out and disconnect the load cell (large silver knurled nut). Slide the battery pack completely out of the pad. We need all 4 modules and the tablet to perform proper service. Please pack everything very carefully so they are not damaged in transit, especially the tablet display. It is best to leave it in the protective case. We cannot warranty a tablet and/or module(s) that have been damaged in transit.

To return a system for service please contact the factory for an RMA tracking number. This helps us get your service done as quickly and efficiently as possible. **PLEASE DO NOT SEND SYSTEMS BACK WITHOUT THIS RMA NUMBER.** It should be clearly marked on the outside of the box and include a quick note inside with your name, phone number, and the RMA number again.

If you choose to send the entire system with pads there will be an additional charge plus additional return freight. If you send the tablet and modules only for warranty service and need them returned faster than ground service we ask that you pay only the difference in freight cost.

IMPORTANT NOTE: The tablets included are fully functional tablets using the Android® OS. They will support many other apps besides the one we supply. However there is always a potential for conflict between apps **over which we have no control**. We will warranty and support both hardware and software

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(our app) on these systems ONLY if no other app or apps have been installed. If you have trouble after installing another app we urge you to delete that new app first to see if an app conflict is the problem. We cannot warranty that this system will function properly with any other apps.

The tablet included is sold and will be supported to run our **COMPUTERSCALES XLi** app and any other apps that we supply. Sorry but we cannot offer general tablet tech support not related to our app(s). We have installed the tablet manufacturer's use and service guide as a PDF. Tap on **Polaris Office** on the home page, tap **Skip** at the notice and then tap **Samsung Galaxy Tab** guide in the upper left corner. This is a very complete operations reference and should answer any general tablet questions.

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Pad Capacity by Part Number: Excess weight can damage load cells

72715, 72717, 72718	1500 lb per pad
72726, 72728, 72729	1800 lb per pad
72691	1100 lb per pad
72751	400 lb per pad

Visit us online at www.longacracing.com for helpful tech tips and videos on using your new Computerscales XLi system.

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Longacre Racing Products
16892 146th St SE
Monroe, WA 98272
USA

Hours 6:30am – 4:00pm Pacific
Sales 800 423-3110
Service 360 453-2030

