



MAJOR **D I S P L A Y** **S C O R E B O A R D S**

Android Tablet or Phone Operating Manual

Major Display

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Introduction

Thank you for purchasing a new scoreboard package from Major Display. Your new scoreboard uses the latest technology and highest quality materials to ensure years of trouble free use. This operating manual will help familiarize you with your scoreboard.

The scoreboard frame is made entirely from aluminum. The frame is welded completely around every joint for maximum strength. The entire scoreboard is finished using baked on powder coat paint. This material is extremely durable and will keep your scoreboard looking like new for many years.

The digit panels are protected with polycarbonate plastic panels. This is the same material used for impact protection in motorcycle helmet face shields. It is nearly indestructible.

Your scoreboard was either supplied with software for a Android Tablet. APP, PC computer control or a solid state controller box. The controller box is completely solid state, and made from glass filled ABS plastic for impact resistance. Even though it is designed to withstand abuse, avoid from dropping it or using excessive force on the control buttons. It is sealed to be water resistant, however it is not designed to be left outdoors and exposed to weather.

Do not leave control box or tablet outside where it could be exposed to rain.

Keep all tablet controllers charged during off season to preserve battery life

The light emitting diode displays are the brightest, widest viewing angle, and highest quality available. We constantly update our displays to use the latest technology. They provide up to 100,000 hours of useful life. It is unlikely that you will ever need to replace the displays.

We use many different methods of communication between the controller and the scoreboard. All of them are very reliable. Some are more appropriate for different situations. Most scoreboards use Android Tablet via Bluetooth communication because it offers the best technology, reliability, and ease of use and installation. The other communication options used in our scoreboards include solid state Console, Desktop PC, both in wired 485 cables, fiber optic and RF wireless radio.

Android Tablet Controller Operation

All new SCB3000 upgrades come with the APP pre-loaded in the mobile device. If you need to load an additional app, after authentication with Major Display, please follow the steps below on all new tablets or mobile phones.

LOADING YOUR APP ON YOUR TABLET OR PHONE

1. Go into APPLICATIONS

- a. Make sure your WIFI is turned off.
- b. Make sure your BLUETOOTH is turned on.

2. Go into SETTINGS – General

- a.** Go to brightness, turn off automatic and turn brightness to full
- b.** Go to Screen timeout, increase the screen timeout duration to the maximum (30) minutes or more
 - i. If your screen times out it will disconnect the APP from your scoreboard.
- c.** Go into Security, then In the Device Administrator
 - i. Turn ON Unknown sources to allow installation of apps from sources other than Google Play Store

3. Now you're ready to upload the App

- a.** You can install your app from any email, or saved file on your device or cloud file.
- b.** Choosing the app on your screen will automatically start to load, you will just press INSTALL. Your app will be stored in your Apps file on your device.

CONNECTING TO YOUR SCOREBOARD



1. First turn on the Scoreboard or Gas Price primary power and then turn on your Android Tablet.

2. Locate the SCB3000 APP on your screen and open the APP.



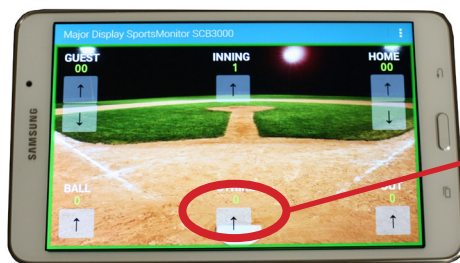
a. Once your APP operating screen is open, touch down the device menu box until the message bar appears. This will bring up three choices: CONNECT, DISCONNECT, and CLEAR SCOREBOARD for Scoreboards and SIGN IN, SIGN OUT, and REFRESH SIGN for Gas Price Signs.



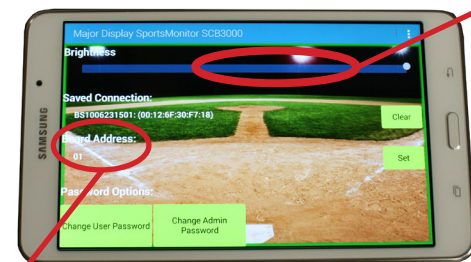
b. Press CONNECT and wait for the app communications to locate the display and connect. At this point the APP will ask for your password, your factory set password is 1 2 3 4

c. Once the APP is connected the display will cycle an illuminated test pattern, for some tablets and phones you will have to hit the return button to lower the keypad screen.

d. If the Display was not cleared from the previous input, it will still display the previous information. To clear the board press the menu box again, and then press the CLEAR or REFRESH SIGN in the bottom right.



e. At this point you are ready to begin controlling your device, it is as easy as pushing the indicator arrows for the scoring functions you desire.



f. By sliding your finger across the screen to the left you will be able to view screen page no. 2. This page allows you to adjust the brightness. It also allows you to clear the communications Bluetooth address connection, reset your security password and set the board address for facilities with multiple scoreboards.

IMPORTANT: DO NOT CHANGE BOARD ADDRESS ON THIS PAGE. ADDRESS SHOULD ALWAYS REMAIN 01

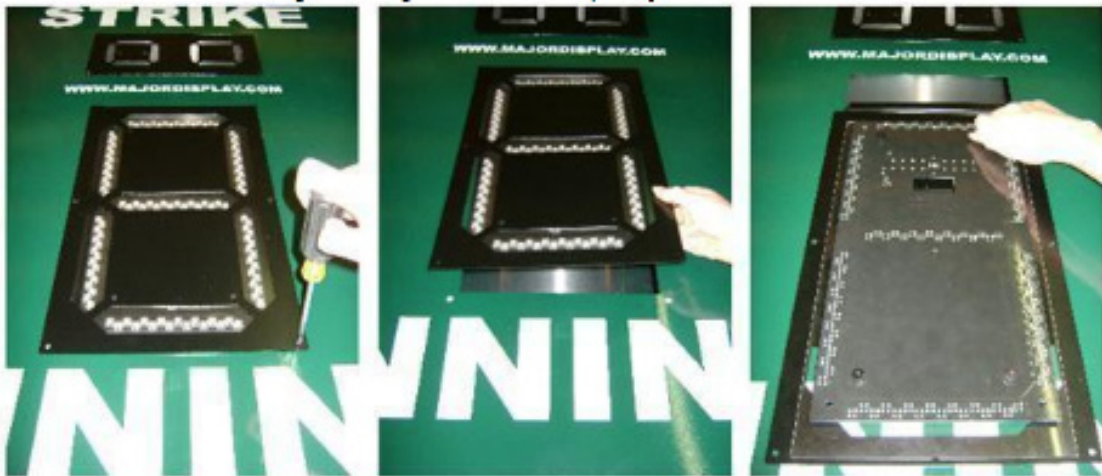
If the digits on your scoreboard are lighting up in the wrong area when controlling from your device, this means that you have plugged the ribbon cables into the wrong registers on your driver. To correct, rearrange the ribbon cables as needed.

Repair

If your scoreboard should ever need repair call us at 1-800-260-1067. Tell the operator that you need to speak with technical support. A technician will determine whether the problem can be fixed by you, or requires you to send the defective part(s) to us.

- **Never drill holes into the frame of the scoreboard!**
- **Always be certain that power has been disconnected from the scoreboard before performing any maintenance!**
- **Never cut any wires inside of the scoreboard!**

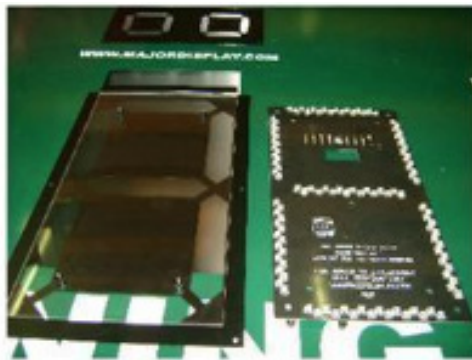
Removal of a defective digit: Remove the stainless steel machine screws from the face of the digit assembly. Remove the digit assembly from the scoreboard. Turn over the digit and remove nylon retainer screws from the back of the digit. Separate the LED printed circuit board from the digit assembly. Unplug the ribbon cable from the digit. The digit should be completely free.



Remove Screws

Remove Digit Assembly

Flip and Remove Thumbscrews



Serviceable Digit

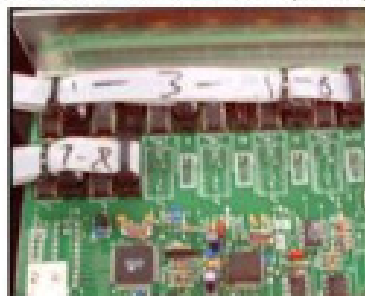
How do I remove the driver(s) from my scoreboard?

Removal of a defective driver electronics box: Remove the metal panel in the middle of the scoreboard covering the box by removing four ¼" hex head screws and pulling the cover toward you from the ends. You will find a silver colored aluminum box. **Unplug the power plug that runs from the box to the internal power socket.** Avoid touching the circuit board or any of the components on it. Pull the hinged cover toward you. There should be strapped together so that they remain in their current position even if they are removed. If they are not strapped together, or if there is any possibility of them getting mixed up so that you cannot put each of them back in exactly the same position as they are in now, mark them with a soft tip sharpie pen or tape. They must go back in their current position after the box is returned. Carefully unplug the connectors by gently wiggling them and gently pulling them directly away from the board. **The horn wires carry 120 volts AC which can be fatal if touched while the scoreboard is plugged in.** If the horn is preset, loosen the two screws closest to the center of the box on the terminal block that holds the wires to the horn. The two wires that go to the horn are the ones that exit the box and enter a hole in the frame near the horn. The printed circuit board should also have the word HORN next to that connector. Remove the horn wires. Do not loosen the other two screw terminal block that holds the power wires from the transformer, or the four screw terminal block that connects to 120 volts AC. While supporting the electronics box so that it won't fall, rotate the levers of the latches that hold the box in place. Pull that end of the box slightly toward you and slide the box in the direction of the latches to remove it from the plate that holds it. The box should be free now. Close the cover of the box. Be careful not to pinch ribbon cable in box cover.

Carefully wrap parts for shipment. Do not wrap electronics in plastic bags, packing popcorn or Styrofoam as these materials will generate static electricity which will damage them. Use paper bags and wadded up paper instead. Avoid stuffing paper inside of the driver electronics box. If available, static shielding bags polyethylene bags are preferred but not required. or pink polyethylene bags are preferred but not required.



Unplug the Power Cord Before Opening Box Cover!



Ribbon Cable Marked and Strapped

Troubleshooting

This is a list of the more common problems encountered. If your problem is not listed here or you have any questions please call our technical support at 1-800-260-1067.

Problem:

Numbers do not change or are displayed erratically when a button on the controller is pressed. Also, a button must be pressed more than once to change the display, or the display is not responding to input from the controller at all.

Cause:

On scoreboards using power line communication, which includes most scoreboards, the controller and scoreboard are not connected to the same electrical phase. Most fuse boxes have two columns of circuit breakers. Each column is connected to a separate electrical phase. Signals sent between the controller and scoreboard cannot travel very well from one phase to another.

Solution:

Find an electrical outlet to plug the controller into that is on the same side of the fuse box as the scoreboard. If this is not possible, it will be necessary to have an electrician move the wires connected to the outlet being used to the same side of the fuse box.

Problem:

An LED digit is either not lit up at all, or is partially lit up.

Cause:

The cables that connect the displays to the controller have worked loose and no longer have a good connection.

Solution:

Turn off power to the scoreboard. Remove the plastic cover over the digit in question. Unplug and re-plug the ribbon cable connector to the digit. Remove the metal cover over the electronics box. Raise the cover of the box. Find the 12 ribbon cable connectors in a row on the electronics board. Make sure they are all connected and pressed down to make a good connection. Do not press too hard. Do not touch any other parts of the electronics board, otherwise static electricity from your body may damage some of the components on the board. If this does not work, or if you do not feel comfortable doing this, feel free to call the technical support number listed at the top and bottom of this page.

Problem:

Scoreboard does not respond to input from the controller and indicator light on controller does not illuminate when the ENTER button is pressed.

Cause:

The controller is likely damaged.

Solution:

Please call technical support at 1-800-260-1067.

- **Do Not Leave The Controller Box Outdoors Where It Could Be Exposed To Rain.**

Guarantee

Major Display scoreboards are guaranteed against defects in workmanship or materials, and will be repaired or replaced without cost to the original owner as outlined in the warranty agreement between us and our customer drafted at the time of sale.

Please see your warranty documents which were provided to you at the end of installation for all details outlining your specific situation.

Before the end of your warranty period, don't forget to purchase a service/maintenance contract from Major Display to protect your investment. We offer low rates for service/maintenance contracts for all of our products. Major Display recommends a service/maintenance contract as it will provide periodic preventive maintenance and inspection, and provide a better value at any time your unit requires service. Please contact us for more details, terms, and conditions of this offer.

We are here for you at any time you may need assistance with your product. Please don't hesitate to call us should you need our help anytime.

We are changing how the world receives scoring data...
join us in the evolution today.



MAJOR DISPLAY
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***The smarter way
to keep score!***



SCB3000 Control system includes: Samsung Tablet and SCB3000 App license with Bluetooth & Wifi Capability - True wireless control