

SCORETRONICS

PCK-4

Portable Clock Model Scoreboard

Owner's Manual
and
Installation Instructions

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OPERATING INSTRUCTIONS

Turning the Scoreboard On

To turn the scoreboard on, press the green button on the top of the scoreboard. The remote control is always ready for use. It has no power switch.

Power On Self-Check

When the scoreboard first turns on, it will go through a self-check. All digits and dots will turn ON for two seconds, then turn OFF for two seconds, and then reset to zero score, no period, no possession/penalty and time 0:00. The horn will sound briefly during the self-check. If the batteries are sensed low, the scores will flash "LO" "BA" at the end of the self-check.

Turning the Scoreboard Off

To turn the scoreboard off, press and hold down the PWR OFF button on the remote control for TWO SECONDS. The scoreboard will also automatically turn off after 60 minutes of non-use. The scores will display "PO" "PO" for two seconds to indicate that the scoreboard is powering down.

Setting Up the Scoreboard at the Game

Slide the scoreboard over the mounting fitting. The fitting will insert about nine inches up into the scoreboard. Then rotate the scoreboard until the locating pin inside the unit drops into the notch in the top of the fitting. This will hold the scoreboard facing the proper direction. Use proper lifting techniques when sliding the scoreboard over the mounting fitting.

Your scoreboard is designed to withstand occasional rain showers. However, it is intended to be stored away when not in use and not be permanently mounted outdoors. The materials used in your scoreboard will age prematurely if the scoreboard is continuously exposed to sunlight when not in use.

Using the Scoreboard

To advance the score, period, or possession/penalty, simply press the corresponding button on the remote control. To advance the clock minutes, press the MIN↑. The period will automatically return to zero when you advance past the fourth period.

To change the count direction of the clock, press the MIN↑ and the POSS buttons together. The clock will briefly show "UP" or "dn" to indicate the direction of the clock.

The possession/penalty indicator will scroll through the pattern NONE, HOME, HOME&GUEST, and GUEST each time the POSS is pressed. In sports that use possession, the user will quickly learn that two presses of the POSS button will flip the indicator from one side to the other.

To clear any item, press the CLR ITEM on the remote control, then press the item you wish to clear. The minutes are cleared by pressing CLR ITEM and then MIN↑. The seconds can be cleared by pressing CLR ITEM and then CLOCKRUN/STOP, or by letting the clock run to :00. When cleared, the scores, minute, seconds and period will reset to zero and the possession/penalty will reset to NONE.

If the batteries are getting low, the scores will momentarily flash "LO" "BA" when the scores are changed. The batteries should be replaced soon when this indication occurs to maintain reliable operation.

Referee Remote Control (Optional)

The referee remote control works exactly like the standard remote control except it controls the clock functions only.

Radio System

The range of the remote control is over 500 feet in open field conditions (no obstructions). However, obstructions such as fences and people, and outside interference will reduce this range.

Small radio dead spots (a spot where the scoreboard won't respond to the remote) can occur in some areas. This is normal. The usual solution is to step a few feet in any direction away from that spot.

Remote Control Storage

When not in use, the remote control should be stored in the right (larger) depression in the back of the scoreboard case. If you have purchased the optional referee remote control, it should be stored in the left (smaller) depression in the back of the scoreboard case. Make sure that the remote control is stored so that the buttons are not accidentally depressed during storage (which would drain the remote control battery in a few days).

Batteries

The scoreboard uses 16 AA alkaline batteries that are included and pre-installed in your unit. The expected life of these batteries under normal conditions is 3,600 clock minutes (60 hours of the clock running).

The unit has a low battery detection system that will flash "LO" "BA" when changing the score if the batteries are low. However, to prevent inconvenience to the users, it is best to replace the batteries every one or two seasons, depending on your usage.

To replace the batteries in the scoreboard, the front panel must be removed. Using a Phillips screwdriver, remove the screws around the edge of the front panel and lift out the front panel. The batteries are in two holders just below the score digits. Observe the polarity markings in the holders when installing the new batteries. Name brand alkaline batteries are recommended. Before reinstalling the front panel, clean the inside of the panel with a soft cloth to remove any accumulated dust. Use caution when tightening the screws while re-installing the front panel, as they can be stripped by overtightening.

The remote control uses one 9-volt alkaline battery, which is also included and pre-installed in your unit. The expected life of this battery under normal circumstances is over 5 years. Make sure to store the remote control in a place where the buttons are not depressed, for this will drain the battery in a few days. The battery is accessed by sliding the bottom part of the back (the part with the FCC label) down. Be sure to observe the polarity indication when installing the battery.

Unit Addressing

If you are operating two or more ScoreTronics scoreboards within 1,000 feet of each other, it is possible for the remote control on one scoreboard to affect the other scoreboards. If this occurs, the unit addressing feature of the scoreboard and remote controls (standard and optional umpire) should be used.

Unit addressing allows a scoreboard to respond to a specific remote control. This is accomplished by setting jumpers inside the scoreboard and remote controls. There are four possible addresses that can be set on the scoreboard and remote controls. More addresses (beyond four) can be achieved with special models—contact ScoreTronics if this is needed.

There are two jumpers in the scoreboard and remote controls that set the unit address. The scoreboard is shipped (unless ordered specifically with different addresses) with both jumpers out, selecting address "0". The combinations of jumpers are:

<u>Address</u>	<u>Jumper Position</u>
0	Out, Out
1	Out, In
2	In, Out
3	In, In

IMPORTANT: The jumper combination on the scoreboard must match the jumper combination on the remote controls.

The cover of the scoreboard and the remote controls must be removed to change the jumper settings. Contact ScoreTronics if you need assistance.

Cleaning

The black textured case can be cleaned by wiping with a damp rag.

The front panel is made of polycarbonate, which is very impact resistant but can be scratched. First, gently remove the surface dust with a dry soft towel before using any liquid cleaner. Then, use water or a commercial cleaner made for clear plastics like Novus® #1 (800-548-6872), wiping with a soft towel and minimal pressure.

INSTALLATION INSTRUCTIONS

Location of Installation

The PCK-4 scoreboard is designed to slide on and off a mounting pole, which you install on your playing area. When properly located, the scoreboard is easily viewed by the spectators, coaches and players.

Each playing area is unique. The location of the scoreboard will depend on your particular sport and playing area layout. Football applications may consider a 50-yard line location facing the opposite side of the field, or a 25-yard line location facing upfield. Soccer applications may consider a similar location. Hockey and basketball may consider a mid-court or end of court location.

For best visibility, the scoreboard should be mounted so that the bottom of the scoreboard is approximately 6 feet off the ground. This gets the unit above the heads of spectators, but still within reach to lift the unit onto the mount.

Poles for Outdoor Use

Purchase a length of 1-1/2" galvanized pipe (threaded on one or both ends) of sufficient length to allow the bottom to be buried to a sufficient depth and have the top of the pipe (the threaded end) to be approximately six feet above the ground. Also purchase a 1-1/2" pipe coupling. After setting the pipe in the ground, assemble the coupling and the ScoreTronics supplied mounting fitting onto the top of the pipe, and orient the notch in the mounting fitting to face the direction you want the scoreboard to face.

If the pole is in a location that could result in player or spectator contact, make sure to adequately pad around the pole and/or scoreboard to protect the players or spectators from injury from accidental collisions.

Indoor Mounting

Indoor sports can often use wall mounting. Purchase a 1-1/2" closet/wall flange, a 1-1/2" nipple (to space the scoreboard out from the wall) and a 1-1/2" elbow. Assemble the nipple to the closet flange, then screw on the elbow, and then attach the ScoreTronics supplied mounting fitting to the elbow. Tighten everything sufficiently and use thread lock compound to prevent the pipes from rotating (which would allow the scoreboard to fall). Orient the notch on the mounting fitting to face the direction you want the scoreboard to face. Bolt this assembly to the wall at a height to make the bottom of the scoreboard at least six feet above the floor.

Other indoor mounting possibilities are using standards (like a volleyball net standard) or tabletop placement. If using tabletop placement, consider obtaining a ScoreTronics "tripod adaptor" which slips into the rear of the unit and acts as a rear leg to prevent tipping backwards.

If the scoreboard is mounted in a location that could result in player or spectator contact, make sure to adequately pad around the mount and/or scoreboard to protect the players or spectators from injury from accidental collisions.

Tripod Mounting

Outdoors

The scoreboard can be mounted on a tripod. A substantial tripod is required to prevent the wind from tipping the scoreboard over. Surveyor's tripods with leg tips that are stepped into the earth have been successfully used. A camera tripod is generally not suitable. It is best to use a 6-foot tall tripod so that spectators don't block the scoreboard's view. Make sure to position the tripod where a player or spectator won't accidentally run into it or the scoreboard.

Surveyor's tripods can be obtained at contractor supply houses and suitable adapters to attach the short mounting pole supplied by ScoreTronics can be fabricated.

If the tripod is in a location that could result in player or spectator contact, make sure to adequately pad around the tripod and/or scoreboard to protect the players or spectators from injury from accidental collisions.

Indoors

For indoor use, a musician's speaker stand can be used as a tripod. Try to get the bottom of the scoreboard six feet off the floor to prevent spectators from blocking the scoreboard's view. ScoreTronics offers tripods and adapters for indoor use and outdoors on level surfaces in non-windy areas.

If the tripod is in a location that could result in player or spectator contact, make sure to adequately pad around the tripod and/or scoreboard to protect the players or spectators from injury from accidental collisions.

TROUBLESHOOTING

The remote control doesn't work or range is limited.

1. Make sure that the battery in the remote hasn't been drained by storing it with the buttons pressed. Try a new battery in the remote control.

2. There could be radio interference at this location. The most common source for interference is a cable TV line nearby that is "leaking" its signal into the air. It is illegal for cable signals to "leak" into the air. If there are nearby cable TV lines, call the cable company and ask them to check them for signal leakage.

If there is more than one ScoreTronics scoreboard at this location, make sure that the other remotes aren't stored such that the buttons are pressed, causing continuous transmissions. Try removing the batteries from all the other remotes if there is suspicion of this.

3. If there are a few specific areas, typically two feet in diameter, where the remote control won't work, this is a normal and unavoidable condition in certain fields. It is caused by signal reflections off of nearby metal objects. When this occurs, simply step a few feet away from the spot.

There are missing segments in the score digits, or some dots aren't flipping.

1. The batteries in the scoreboard could be low. Try installing a new set of batteries.

2. There could be something mechanically interfering with the motion of the segment or dot. Remove the front cover of the scoreboard and check for anything (a wire bundle, for instance) that could prevent the segment or dot from moving.

3. The pivot for the segment or dot could be dirty, preventing movement. Use CLEAN compressed air to blow out the dust from the moving parts. (If you don't have access to an oil free compressor you can buy a can of aerosol duster from Radio Shack or a computer store.) DO NOT LUBRICATE ANYTHING! The parts are designed to run dry. Lubrication will prevent operation and will result in substantial repair costs.

4. There could be a bad digit. Follow the cable from the digit to the control board and unplug it from the main board. Also unplug another digit and then re-plug them both back in, swapping locations. If the same digit remains bad, contact ScoreTronics for a replacement digit. In the short term you may be able to move the bad digit to a less used position (like the left digit of the score) to be able to continue use of the scoreboard.

If a dot or arrow is malfunctioning, check to see that the moving parts are moving freely. The moving part should be absolutely free. If the scoreboard gets dropped from a sufficient distance, the moving part of the dots or arrows can become dislodged (and sometimes end up in the bottom of the scoreboard case). In this case, spread the plastic yoke of the dot holder apart and gently reinsert the moving part.

5. Control board. If in Step 4 above the problem stayed with a particular plug on the main board, (meaning that any digit plugged into that jack malfunctions the same way) then the problem is with the control board. Contact ScoreTronics for a replacement control board.

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WARRANTY

Your scoreboard is warranted against any defects that are due to faulty material or workmanship during normal use and according to the instructions for a period of one year from the date of original purchase or receipt as a gift. This warranty does not cover damage resulting from any abuse, misuse, accident, user modifications or lubrication. ScoreTronics will replace or repair any components that are deemed to have become defective during the warranty period. This warranty does not cover transportation costs.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE.

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