



MP-70 and MP-50 Scoreboard Controller User's Guide

Fair-Play

A TRANS-LUX® COMPANY

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This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

The term "IC" before the certification/registration number only signifies that the Industry Canada technical specifications were met.

Warning

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure

To comply with FCC RF exposure requirements for mobile transmitting devices, this transmitter should only be used or installed at locations where there is at least 20cm separation distance between the antenna and all persons.

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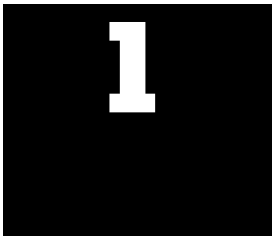
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Introduction

About the MP-70 and the MP-50

This manual describes the use of two Trans-Lux/Fair-Play products, the MP-70 control, and the MP-50 control. Both products can run Trans-Lux/Fair-Play scoreboards remotely. Each product allows you to keep up with sports timing and scoring demands that require quickness and accuracy. Each controller's versatility makes it effective in a wide variety of sports. Some common features of the MP-70 and MP-50 include:

- Storage for up to six different sports and scoreboard configurations for ease of operation and flexibility.
- Hour countdown clock function allows some baseball scoreboards to count down hours, not just minutes.
- Jumping clock feature that allows 1/10th of a second to be displayed on scoreboards in the last minute of the game. At that time, the seconds "jump" to the left and the 1/10th seconds display on the right.
- A memory circuit that retains game information in case of loss of power.
- Easy-to-read, two-line LCD information display on the control that shows time and other data by instant recall.
- Changeable, sport-specific color-coded inserts that can be used for various specific sports.
- Automatic horn, to signify end of period or game, which can be turned on or off.
- Multiple time-out times offered for basketball.
- Scoreboard lamp TEST mode for ease of scoreboard service.

Both the MP-70 and MP-50 are operated in an identical fashion, but the MP-70 includes more features than the MP-50. The differences between the two products are discussed in more detail in the following section.

The MP-70

The MP-70 is the most popular Trans-Lux/Fair-Play scoreboard controller. It can operate all standard Trans-Lux/Fair-Play scoreboards. It also includes the following features

- Optional remote, hand-held control switches, which plug directly into the MP-70, which are available for game clock, shot clock and field timer control. (For more information on hand switches, see [“OPTIONAL HAND SWITCHES \(MP-70 ONLY\)” ON PAGE 11](#)).
- Capability to operate multiple scoreboards and shot timers simultaneously. Electronic foul/point memory for basketball allows the operator to enter up to the fouls and points for up to 15 players per team.
- Team name data tracking (for more information, see [“TEAM NAMES” ON PAGE 121](#)).

The MP-50

The MP-50 is a less expensive, but easy-to-use control which can run basic Trans-Lux/Fair-Play scoreboards that display a limited amount of information.

Unlike the MP-70, the MP-50 cannot run basketball shot clocks, football field timers, or a hand switch connector that can be used for any sports. Because of these limitations, the MP-50 is most frequently used for baseball scoreboards; however, it can be used for other sports as well.

Wireless and battery features

Both the MP-70 and MP-50 are capable of wireless and battery options.

Battery option

The battery-powered versions of the MP-70 and MP-50 provide flexibility, as you can use them indoors and outdoors in areas with limited electrical connections. The internal batteries typically run for about six hours.

You can find more information on the battery feature on [PAGE 167](#)

Wireless option

Controls with the wireless option are versatile and secure, without the need for wiring and cable conduit that is necessary for direct wired controls. The wireless controls are a good option for scoring on established playing fields when trenching for a direct wire connection is undesirable. Wireless also provides flexible control for indoor situations.

Trans-Lux/Fair-Play's wireless controls uses spread-spectrum technology to avoid interference with other electronic devices. The MP-70 and MP-50 also use direct sequence transmission, which locks onto the receiver at start-up and sends thousands of radio signals over one radio channel to the scoreboard. The radio signal travels over a longer range - important for open playing fields - and the radio signal remains consistent to ensure game clock accuracy.

Some common wireless features include the following:

- Factory-installed and tested transmitter (receiver and antenna).
- Can run synchronized operation of two or more scoreboards from one control, operating on the same channel.
- Does not interfere with wireless LANs and personal computing devices that use the 2.4GHz ISM band.
- Operates normally, even in the presence of cellular telephones, pagers and transmission towers.
- Radio link receiver light indicates transmission link is operational.
- Transmission range of at least 300 feet indoors, and 1,000 feet outdoors.

You can find more information on wireless controls at the chapter titled ["WIRELESS OPTION" ON PAGE 125](#)

About this user guide

This User Guide will acquaint you with the MP-70 and MP-50 Scoreboard Controls. It includes chapters on:

- Common Functions, such as updating the score, and tracking time periods, on [PAGE 13](#)
- Setting up your control, on [PAGE 9](#)
- Sport-specific settings, including Basketball on [PAGE 25](#), Football on [PAGE 45](#), Hockey on [PAGE 53](#), Wrestling on [PAGE 69](#), Soccer on [PAGE 75](#), Volleyball on [PAGE 85](#), Track on [PAGE 91](#), Baseball on [PAGE 99](#), and Lacrosse on [PAGE 109](#).
- Entering team names on [PAGE 121](#)
- Wireless settings on [PAGE 125](#)
- Battery options and maintenance, on [PAGE 167](#)
- Programming and changing system settings, on [PAGE 151](#)
- Selecting and changing sports, on [PAGE 175](#)
- Troubleshooting, on [PAGE 193](#)
- Operating a control in TEST mode to test lamp circuits, on [PAGE 205](#)
- Loading configurations, on [PAGE 207](#)

This User Guide can also be found at the Fair-Play product Web site. The following URL (Web site address) will take you to the online User Guide.
<http://www.fair-play.com/asp/productslist.asp>



Note: This user guide has been updated for release ver. 2.15 and up. For previous firmware versions, please consult the MP-70/50 user guides that were written previous to April 11, 2006.

Conventions used in this guide

The following conventions are used throughout this manual to help you identify actions, terms, hints, notes, and warnings.

- ALL CAPITALIZED non-bold large text describes either 1.) Modes of your control's functionality, such as PROGRAM mode or TEST mode; or 2.) a message or prompt displayed on the control's LCD.

Example: In PROGRAM mode, you will see the LCD display the message "CHANGE SPORT?"

- **BOLD and ALL CAPITALIZED** text, such as that shown at left, highlights buttons or switches you must use to complete an action.

Example: Press the **ENTER** button to complete the action.

- [CROSS-REFERENCE](#) small text, such as the blue color, all-capitalized small text shown at left, indicates a hypertext link to a cross-reference in another part of this user guide. If you are viewing this user guide in Adobe PDF format, you can automatically jump to the text described in the cross-reference by placing your cursor over the text and pressing the left-hand button on your computer's mouse.

Example: See "[INTRODUCTION](#)" [ON PAGE 1](#) for the beginning of this chapter.



Note: A note, such as this one, provides additional information. It may also discuss other procedures to think about.

Getting help

If you experience trouble with your Trans-Lux/Fair-Play equipment and controller after reviewing this manual and following our installation information, you may want to consult a Trans-Lux/Fair-Play service representative in your Trans-Lux/Fair-Play dealer organization or call the Trans-Lux Help Desk for further assistance. The Trans-Lux/Fair-Play Web site, www.fair-play.com, can help you find the dealer nearest to your location. The Trans-Lux Help Desk can be reached at (800) 462-2716.

Contacting the help desk

The Help Desk provides technical support and product assistance for all Trans-Lux and Fair-Play manufactured products during regular business hours. The Help Desk is organized to assist with all types of questions and issues, including:

- Requests for Return Material Authorization of equipment to be repaired
- Requests for Warranty Parts Exchange
- Product selection and upgrade assistance.

When you call the Help Desk, you can expedite your calls by having the following information immediately available:

- Sales order number.
- Model number of sign.
- Firmware version that you are running.

Ordering items

Fair-Play always recommends that our customers retain an inventory of spare parts for “game day” emergency purposes. If you would like to order additional scoreboard components or controllers, please contact the Fair-Play Service Department at (800) 462-2716. When contacting the Fair-Play Service Department, it is always helpful to have your scoreboard model number and sales order number information handy.

Necessary information

Before contacting Trans-Lux Fair-Play, please write down the information requested in the following spaces. This will help you answer questions your service representative may ask. In addition, locate the warranty information packaged with the MP-70/50 before calling.

Model Number

Sales order number

Name of company or dealer that Fair-Play equipment was purchased from:

Important Precautions

- Read this manual thoroughly before setting up or operating the MP-70/50.
- Do not drop the MP-70/50
- Avoid exposing the MP-70/50 to liquids or moisture.
- Be sure the power cord is protected from hot surfaces, sharp edges and anything else that could damage it.
- For your safety, the MP-70/50 features a three-pronged, grounded power cord. Connect this cord only to a standard 120-volt grounded outlet. If a 120-volt grounded outlet for a three-pronged plug is unavailable, have one installed by a qualified electrician.
- Unplug the MP-70/50 when it is not in use. To unplug it, grasp the plug at the outlet; do not pull on the cord.
- The MP-70/50 contains no user-serviceable parts. To avoid personal injury or damage to the MP-70/50's components, do not disassemble the controller. Refer any repairs to a qualified technician.
- When an extension cord is necessary, use only a three-pronged cord with grounded, polarized connectors. Avoid placing the cord where someone may trip over it or unplug it accidentally.
- Do not expose the MP-70/50 to direct sunlight or extreme temperatures for extended periods.



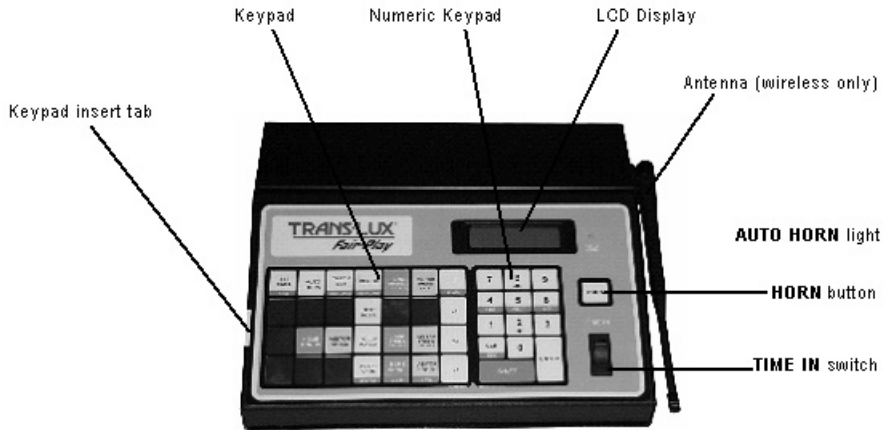
Note: Power cord references throughout this manual are not applicable to battery models unless the charger adaptor is connector.

- The MP-70/50 is not meant to operate in complete darkness. You will need to have some ambient light to see the LCD screen.

2

Hardware

The figure below acquaints you with the control's major components. (Wireless control is shown).



Connect scoreboards, hand switches, and other devices to the MP-70 or MP-50 controller as shown on the following pages.

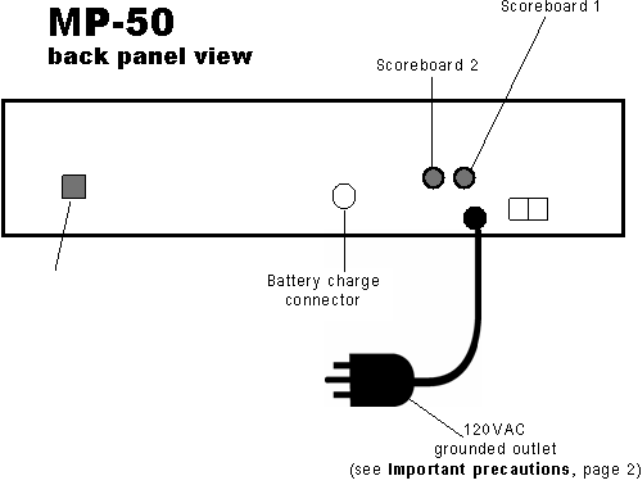
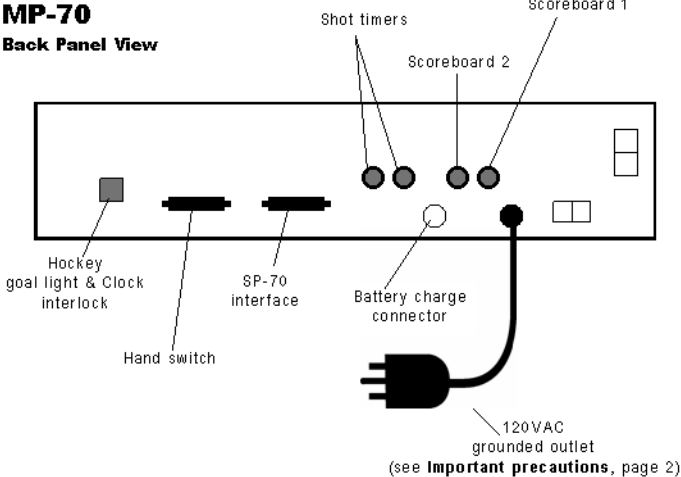
If you are using a controller equipped with the wireless option, see [“WIRELESS OPTION” ON PAGE 125](#).

Setting up the MP-70/50

It is vitally important to correctly connect the scoreboard, hand switch or other devices to the MP-70/50. Improperly connected equipment will not work as expected.

If you are using a wireless MP-70/50, see [“WIRELESS OPTION” ON PAGE 125](#).

MP-70 and 50 - back panel views



Optional hand switches (MP-70 only)

Fair-Play offers the following optional hand switches for use with the MP-70.

Handswitch	Fair-Play part number
Shot timer (domestic usage)	HS-70
Shot timer - for FIBA basketball rules	HS-70-FIBA
Game clock with reset	HC-70
Game clock with horn	HH-70
Time advantage clock	TA-70

When connecting a hand switch, refer to the drawing [“MP-70 AND 50 - BACK PANEL VIEWS” ON PAGE 10](#).

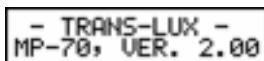
In some cases, you can connect more than one hand switch to the MP-70 to at a time. The HC-70 and HH-70 hand switches listed above include a nine-pin adaptor, allowing you to connect another hand switch in a daisy-chain configuration.

Turning on the MP-70/50

Before turning on the MP-70/50, verify that it is connected to a standard 120-volt grounded outlet.

See ["IMPORTANT PRECAUTIONS" ON PAGE 8](#).

The controller's ON/OFF switch is located at the rear of the console. Move this switch to the ON position. The MP-70/50 displays the start-up message below. (The version number may be different from the one shown here.)



Programming the MP-70/50


The MP-70/50 control's system settings must be properly programmed (configured) or it will not operate correctly! Before turning on your control, carefully read and understand the instructions in ["PROGRAMMING THE SYSTEM SETTINGS" ON PAGE 151](#) and in ["SELECTING AND CHANGING SPORTS" ON PAGE 175](#).

3

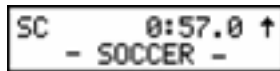
Common Functions

Certain functions of the MP-70/50 are common to all sports. You should become familiar with these functions before proceeding to the chapters discussing specific sports applications.

Operating the clock

The TIME IN switch allows you to start and stop the clock. You can also start and stop the clock with an optional hand switch. When the clock is stopped, this symbol appears on the LCD display: 

An up or down arrow on the LCD display indicates the direction in which the clock is counting. In the example below, the clock is counting up.



If you want to change the clock direction, follow these steps:

1. With the clock stopped, press and hold **SHIFT** while pressing **CLK**.
UP/DN.
2. At the COUNT UP or COUNT DOWN prompt, press and hold **SHIFT** while pressing YES.

Clock set key

The **CLOCK SET** key allows you to set the clock for game, break, and overtime periods. This key is unavailable while the clock is running; stop the clock before pressing it. With the clock stopped, follow these steps:

1. Press **CLOCK SET** repeatedly to cycle through the screens shown on the following pages:

```
BB      0:00.0%+  
SET CLK. 12:00.0
```

```
BB      0:00.0%+  
SET BRK. 8:00
```

```
BB      0:00.0%+  
SET O.T. 5:00
```

2. After selecting the period for which you are setting the clock, verify the duration shown is correct. If you need to change the duration, enter a new time on the numeric keypad.
3. Press **ENTER** to set the clock to the period type and duration indicated on the LCD display.

The first two characters on the top line of the LCD display indicate which period type is currently selected (BK for break, OT for overtime, HT for halftime, and the two-character sport code for regular game periods). Letters will flash for PG, (pre-game) HT (halftime) and BK (break) periods.



Note: If you are operating the clock with hand switch, the **TIME IN** switch on the MP-70/50 must be in the time out position. Before attempting to reset the clock with the hand switch, be sure the **TIME IN** switches on both the MP-70/50 and hand switch are in the time out position.



Note: On Baseball scoreboards that feature game clock, you have the option of operating the clock in HOURS mode. This must be enabled in the CHANGE SPORT settings. See [“SELECTING AND CHANGING SPORTS” ON PAGE 175](#), and see [“BASEBALL” ON PAGE 99](#) for more information on baseball settings.

When HOURS mode is ON: Enter hours and minutes in CLOCK SET.
When HOURS mode is OFF: Enter minutes and seconds in CLOCK SET.

Updating the Score

Follow these steps to enter or update the score:

1. Press **HOME SCORE** or **VISITOR SCORE**.
2. Press one of the following keys to adjust the score by the increment indicated: +1, +2, +3, -1.

OR

1. Press **HOME SCORE** or **VISITOR SCORE**.
2. On the numeric keypad, enter the new score and then press **ENTER**.



Note: When you are using the foul memory and points memory features in basketball, the process of updating the score is slightly different. See ["UPDATING SCORE/TRACKING PLAYER POINTS \(MP-70 ONLY\)" ON PAGE 41](#) If hockey is the selected sport and your installation is equipped with goal indicator lights, the corresponding indicator will automatically illuminate for 15 seconds if the +1 key is used to advance either the home or visitor score.



Note: If the sport you are running is hockey, and you are using the numeric keypad to manually adjust your hockey scores, then the goal lights must be turned on and off manually (see ["MANUALLY CONTROLLING GOAL INDICATORS" ON PAGE 59](#)).

Tracking periods

Follow these steps to enter or update the period number:

1. Press **PERIOD**.
2. Press one of the following keys to adjust the period number by increment indicated +1, +2, _3 or -1.

Or

1. Press **PERIOD**.
2. On the numeric keypad, enter the period number and then press **ENTER**.

Sounding the horn

You can sound the horn at any time by pressing the **HORN** button.

You can also set the horn to AUTO HORN mode. In this mode, the horn automatically sounds for five seconds at the end of each period. Press the **AUTO HORN** key to turn this feature on or off.

The **AUTO HORN** light to the right of the LCD display indicates that this mode is active.



Note: If you wish to shut off the horn before it finishes its five-second sounding, put the control in TIME OUT mode. The horn will then turn off instantly.

Operating the shot/field timer (MP-70 only)

You must have an HS-70 hand switch to operate the shot/field timer. Follow these steps to set the timer:

1. Press **SET TIMER/T.O.D.**
2. On the numeric keypad, enter a two-digit time and then press **ENTER.**



Note: These steps will change the reset time only for a single reset event and do not change the default timer setting held in permanent memory. To change the default setting, refer to the sport-specific setting for the appropriate sport. If you are using it to run a basketball scoreboard see [“SETTING THE TIMER \(MP-70 ONLY\)” ON PAGE 37.](#)

Use the hand switch to start, stop and reset the timer. The time remaining appears on the top line of LCD display next to the two digit sport code.

Tracking timeouts

If your scoreboard lets you display the number of timeouts left, this section will help you do so. If your scoreboard does not display timeouts left, you can still track timeouts with the MP-70/50 as discussed in the following section.

To update the number of timeouts left, follow the steps below.

1. After stopping the game clock, press **HOME TIMEOUT** or **VISITOR TIMEOUT**. The LCD display indicates the duration of the timeout as shown below.



The LCD display shows the following text: BB (60) U. T.O.L. 8:00. 1

2. Press -1.

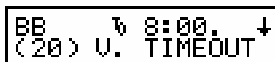
These steps also start the timeout timer. By default, this timer appears only on the LCD display. In the sport-specific settings, you can program the timer to appear on the scoreboard as well. To change the duration of the timeout timer, see the sport-specific settings.

The horn sounds at the end of the timeout only if the timer appears on the scoreboard. When the timeout timer reaches 15 seconds, the horn sounds for one second. It sounds again when the timer reaches zero.

Alternate timeout timer

The MP-70 offers an alternate timeout timer for basketball. Follow the steps below to start a timeout timer using the alternate duration.

1. After stopping the game clock, press **HOME TIMEOUT** or **VISITOR TIMEOUT** twice. The LCD display indicates the duration of the alternate timeout timer as shown below.



The LCD display shows the following text: BB (20) U. TIMEOUT 8:00. 1

2. Press -1.

Correcting a mistake

If you make a mistake while entering a number on the numeric keypad, press **CLR**. Then enter the number again and press **ENTER**.



Note: If you press **ENTER** before correcting the mistake, the incorrect value takes effect. You must enter the information again as instructed in the appropriate section of this manual.

Using the shifted functions

A green background on the keypads denotes the shifted functions. You must press and hold the **SHIFT** key to use these functions. The shifted functions include the following:

T.O.D.

This function allows you to display or hide the time of day on the scoreboard game clock.

- On most scoreboard models, if you use the Time of Day function, the Time of Day will show in the clock area, and the remaining scoreboard digits will blank.
- However, beginning with firmware version 2.15, the Time of Day function can simultaneously run during a game for scoreboard types 27 and 28. This is also true for scoreboard type 31 - but only if used with scoreboard model number BA-7200.

To display the time of day, press **SHIFT + T.O.D.** and respond with **YES** to the prompt T.O.D. CLOCK? Y/N. The display will then show SET TOD CLK, and either 12HR or 24HR, whichever has been selected in the SYSTEM level of programming.

```
BB 28 10:53. ↓
T.O.D.CLOCK? Y/N
```

```
BB TOD 0:00
SET TOD CLK:12HR
```

Next, press the **CLOCK SET** key. A six-digit entry field will appear on the bottom half of the LCD. Use the numeric keypad to set the correct hours, minutes and seconds then press the **ENTER** key to conclude this process and send time of day to the scoreboard. T.O.D. is not dependent upon the **TIME IN** switch setting.

```
BB TOD 0:00
SET TOD 00:00:00
```

```
BB TOD 0:00
SET TOD 09:27:31
```

To resume display of the game clock, press **SHIFT+T.O.D.** and respond with **NO**.

```
BB TOD 9:27
```

New Game

The MP-70/50 retains the data from the last game it was used for in memory. This is a precaution in case of power failure.

To clear that data and reset the controller to the default values you have specified for the selected sport, follow one of the following two procedures.

1. Press **SHIFT+NEW GAME**.
 2. At the **NEW GAME** prompt, press **YES**
- Or**
3. Hold down the **CLR** key while turning on the control.

CLK. UP/DN

This key lets you change the direction of the game clock. See [“OPERATING THE CLOCK” ON PAGE 13](#) for further information.

BLANK

The **BLANK** key allows you to blank selected digits on the scoreboard. Follow these steps:

1. Press the key corresponding to the value you want to blank. For example, if you want to blank the region of the scoreboard displaying the home team's score, press **HOME SCORE**.
2. Press **SHIFT+BLANK**.

YES and NO

The **YES** and **NO** keys allow you to respond to prompts on the **LCK** display. In system settings, you do not need to press **SHIFT** to use these keys. In normal operating mode, however, you must press and hold **SHIFT** while pressing **YES** or **NO**.

NEXT

In system settings, the **NEXT** key lets you skip the current prompt without changing the corresponding value.

ESC

If you enter system settings by mistake, press **ESC** to skip directly to the QUIT prompt. This prevents inadvertent changes to the MP-70/50's system or sport-specific settings.

SET INTERVAL ON/OFF

This key is available only on the hockey keypad insert with the MP-70/50 programmed to operate a hockey scoreboard. Press this key while holding **SHIFT** to turn the hockey interval timer on or off. If you want to change the duration of the interval timer, press this key without holding **SHIFT**.

See ["INTERVAL TIMER ON" ON PAGE 54](#) for additional information on the interval timer.

1ST & 10

This key is available only on the football keypad insert with the MP-70 programmed to operate a football scoreboard. Pressing this key while holding **SHIFT** automatically sets the DOWN and YARDS TO GO values to the 1st & 10 in first down situations. Follow these steps:

1. Press **SHIFT+1st&10**.
2. At the BALL ON prompt, type in which yard line the ball is on and press **ENTER**.

BAT/RF

This function allows you to view the current battery charge level and radio transmitter settings of your control. To activate, press **SHIFT+BAT/RF**.

If you have a battery-powered control, the first press of the **BAT/RF** key will display the percentage of power remaining in the battery on the bottom line of the LCD. Press the key again to display the radio transmitter settings. If your control is not battery powered, only the radio settings will appear. See ["WIRELESS OPTION" ON PAGE 125](#) and ["BATTERY OPTION" ON PAGE 167](#) for additional details.

Dimming the scoreboard

Outdoor scoreboards are easier to read if they are bright in the daylight and dim at night. The MP-70/50 offer four brightness levels; press **BRI.DIM** to cycle through them.



Note: This function is not available with indoor sports.



Note: If scoreboard outputs 1 and 2 are both set to transmit MP-69 data, only two brightness levels are available.

4

Basketball

If basketball is not the sport currently selected on the MP-70/50, or if you want to change the controller's settings for basketball, see ["SELECTING AND CHANGING SPORTS" ON PAGE 175](#).

You should also verify that the controller has been programmed to use the correct scoreboard type and data format as instructed in ["PROGRAMMING THE SYSTEM SETTINGS" ON PAGE 151](#).

Sport-specific settings for basketball

When you select basketball as instructed on ["SELECTING AND CHANGING SPORTS" ON PAGE 175](#), the MP-70/50 presents you with the sport-specific setting options in the sequence outlined on the following pages. When you adjust these settings, the MP-70/50 stores your selections in permanent memory. Your settings become active each time you select basketball in the future.

- The sequence shown on the following pages presents you with all of the options you could encounter while programming sports-specific settings. However, these options presented to you may vary, depending upon the type of your control (MP-70 or MP-50), the version number of the firmware in your control, the two-digit board type that you've selected, your scoreboard model, or whether your basketball game is taking place according to FIBA or North American rules. Hence, not all of the options outlined in this chapter may appear on your control.
- As you run through the following programming sequence, and you find the need to back up to a previous programming option earlier in the sequence, you can back up by selecting **SHIFT+8**.

- You may skip a prompt by pressing the **NEXT** key. This will advance you to the next prompt, but will save the existing settings of your current prompt without making any changes. However, Fair-Play advises that you respond YES or NO to all prompts, so that you have made all of the appropriate selections for your sports event.
- You may exit the programming sequence at any time by pressing the **ESC** key. This will take you to the Quit prompt.

FIBA rules (for international basketball)

```
-CHANGE SPORT-  
FIBA RULES? Y/N
```

The first prompt you will see is one for FIBA basketball rules, which are used by the International Basketball Federation. North American users of the MP-70/50 control who are not using FIBA rules should answer **NO** to this prompt. Further information on FIBA basketball rules are described in [“FIBA RULES EXPLAINED” ON PAGE 33](#).



Note: If you choose the FIBA rules options, the prompts you see on your LCD screen will vary from the list of all prompts shown in this chapter.

Auto Period Advance (FIBA rules-only question)

```
-CHANGE SPORT-  
AUTO PER. ADV?Y/N
```

If you have chosen FIBA rules, you will see the AUTO PERIOD ADVANCE prompt next. The AUTO PERIOD ADVANCE feature includes a series of pre-set period and break times that the MP-70/50 controller will run automatically. You can read more on this option at [“FIBA AUTO PER. ADVANCE SEQUENCE” ON PAGE 34](#).

Foul memory

The foul memory feature allows you track fouls or fouls and points by player number. You can display these statistics for up to 15 players per team. To activate this feature, press **YES** at the FOUL MEMORY prompt. Otherwise, press **NO**.

```
- CHANGE SPORT -  
FOUL MEMORY? Y/N
```

If an SP-70 statistics panel controller is interfaced with the MP-70, foul and points tracking capabilities of the MP-70 are automatically de-activated.

Points memory (MP-70 only)

The POINTS MEMORY prompt appears only if you pressed **YES** at the FOUL MEMORY prompt. If you want to track both fouls and points by player number, press **YES** at the POINTS MEMORY prompt. To track only player fouls, press **NO**.

Enter lineup (MP-70 only)

This prompt appears only if you have activated the foul memory feature as instructed at ["FOUL MEMORY" ON PAGE 27](#).

```
- CHANGE SPORT -  
ENTER LINEUP Y/N
```

If you press **YES** at the ENTER LINEUP prompt, the MP-70 prompts you to enter player numbers for the home and visiting teams each time you press SHIFT+NEW GAME (see ["NEW GAME" ON PAGE 22](#)) If you press **NO**, the MP-70 automatically records player numbers as you track player fouls or points during the game.

If you choose to enter player numbers manually, the MP-70 retains these numbers in memory when you press **SHIFT+NEW GAME**. (It clears the player fouls and points values.) IF you choose to have the MP-70 record player numbers automatically, all player information, including player numbers, is cleared from memory when you start a new game.

Bonus fouls

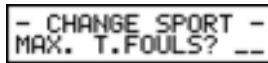
On the numeric keypad, enter the number of team fouls (between one and nine) needed to initiate a bonus situation, then press **ENTER**.



- CHANGE SPORT -
BONUS FLS 1T09?

Maximum team fouls

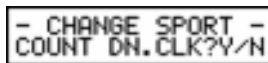
Enter the maximum number of team fouls that you want to display on the scoreboard. Normally, this is the number of fouls required for the two-shot rule to take effect at the free throw line. If you don't want to limit the number of team fouls displayed, enter **99**.



- CHANGE SPORT -
MAX. T.FOULS? --

Countdown clock

Press **YES** if you want the clock to count down or **NO** if you want the clock to count up.



- CHANGE SPORT -
COUNT DN.CLK?Y/N

Tenths of seconds clock

If you want the clock to display tenths of seconds in the last minute of play, press **YES**. This setting is unavailable if the clock is counting up.

```
- CHANGE SPORT -
1/10SEC CLK? Y/N
```



*Note: If you have a four-digit game clock (MM:SS), and you desire a 1/10th seconds display in the last minutes of a period, you must respond **YES** to both the 1/10th SEC CLK and the JUMPING CLK questions. Otherwise, the horn will appear to sound one second late.*

Jumping clock

This setting is helpful when your scoreboard does not have a fifth digit for tenths of seconds. If you choose this option, the digits representing seconds move to the left of the colon in the last minute of play, and tenths of seconds appear to the right of the colon. This setting is available only when you have selected the tenths of seconds clock above.

```
- CHANGE SPORT -
JUMPING CLK? Y/N
```

Auto horn

If you press **YES** to select AUTO HORN, this mode is active each time you select basketball as the sport. You can still use the **AUTO HORN** key to turn this feature on and off as instructed on [“SOUNDING THE HORN” ON PAGE 17](#).

```
- CHANGE SPORT -
AUTO HORN? Y/N
```

Timeout to scoreboard

If you want the timeout timer to appear on the scoreboard, press **YES**. If you press **NO**, the timer appears only on the MP-70/50'S LCD display.



```
- CHANGE SPORT -  
T.O. TO SCBD? Y/N
```

Time set to (MP-70 only)

On the numeric keypad, enter the duration of the shot timer clock in seconds and then press **ENTER**.



```
- CHANGE SPORT -  
TIMER SET #1? 00
```



```
- CHANGE SPORT -  
TIMER SET #2? 00
```

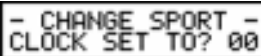


Note: MP-70 controls can hold two different default shot timer clock durations in permanent memory. Control operator has the capability to switch between these defaults.

See [“SETTING THE TIMER \(MP-70 ONLY\)” ON PAGE 37](#) for additional information about selecting and programming default shot timer durations.

Clock set to

On the numeric keypad, enter the duration of the game period in minutes and then press **ENTER**.



```
- CHANGE SPORT -  
CLOCK SET TO? 00
```

Break set to

On the numeric keypad, enter the duration of the break period (half time) in minutes and then press **ENTER**.

```
- CHANGE SPORT -  
BREAK SET TO? 00
```

Overtime set to

On the numeric keypad, enter the duration of the overtime period in minutes and then press **ENTER**.

```
- CHANGE SPORT -  
O.T. SET TO? 00
```

Timeout timer to

On the numeric keypad, enter the number of seconds for a primary ("full") timeout and then press **ENTER**.

```
- CHANGE SPORT -  
T.O. TIMER TO? 00
```

Second timeout time

If the basketball rules you are using call for two different timeout durations - one shorter timeout and one longer timeout - enter the second (shorter) timeout duration (in seconds) and then press **ENTER**. Otherwise, press **NEXT**.

```
- CHANGE SPORT -  
2nd T.O.TIME? 00
```

Number of timeouts left

Enter the number of timeouts allowed, either per game or per half. When you press **SHIFT+NEW GAME**, this value resets automatically. If you are tracking timeouts by half, you must manually reset the number of timeouts left at halftime.

```
- CHANGE SPORT -  
# OF TOLS,1T09?
```

FIBA rules explained

(The following sections describe features of FIBA rules. They are only applicable if you chose FIBA rules at the first prompt, which was mentioned in [“FIBA RULES \(FOR INTERNATIONAL BASKETBALL\)” ON PAGE 26](#).)

- Instead of counting timeouts remaining, as is done in North American basketball rules), FIBA rules counts the number of timeouts used. Hence, FIBA rules counts the number of time outs used, instead of time outs remaining.
- Extra periods (known as overtime according to North American rules), are shown on the scoreboard with the letter “E”, if that scoreboard is operating according to FIBA rules.
- The shot timer hand switch sold by Fair-Play to FIBA rules users (HS-70-FIBA) has an additional BLANK switch.
- Period and break times for FIBA rules basketball games are described in the following section.

FIBA Auto Per. Advance sequence

If you chose the AUTO PERIOD ADVANCE feature that is an option under FIBA rules, the MP-70/50 control will run a sequence of FIBA basketball game periods and their time values, which are described below. (This prompt was previously discussed in "[AUTO PERIOD ADVANCE \(FIBA RULES-ONLY QUESTION\)](#)" ON PAGE 26).

Pre-game warmup period - 20 minutes.

First period - 10 minutes.

Two-minute break between first and second periods.

Second period - 10 minutes.

Halftime break - 15 minutes.

Third period - 10 minutes.

Two-minute break between third and fourth periods..

Fourth period - 10 minutes.

If the score is tied:

First extra period - 5 minutes.

Second extra period - 5 minutes.

Third extra period - 5 minutes.



*Note: The AUTO PERIOD ADVANCE feature differs from regular basketball operations in one important respect: In order to start a period, you **MUST** press the **TIME IN/TIME OUT** button twice: the first time to bring the control into **TIME OUT**, and the second time to bring it back into **TIME IN** again. This is required so that the control will not automatically start the next period without the operator's consent. (Break periods start automatically).*

Operating the control in a basketball game

Before continuing with this chapter, be sure the letters BB appear in the upper-left corner of the LCD display. This indicates that basketball is the sport currently selected. If you see a different code, select basketball as instructed on [“SELECTING AND CHANGING SPORTS” ON PAGE 175](#). You may want to adjust the sport-specific settings for basketball as instructed earlier in this chapter.

You should also be familiar with the information in [“COMMON FUNCTIONS” ON PAGE 13](#) before continuing with this chapter. That chapter discusses several functions of the MP-70/50 that are important to its operation in a basketball game, such as operating the clock and updating the score.

Entering team lineups (MP-70 only)

If you have activated the foul memory feature as instructed on [“FOUL MEMORY” ON PAGE 27](#), enter player numbers in one of the ways discussed below.

If you pressed **YES** at the ENTER LINEUP prompt in the sport-specific settings for basketball, the MP-70 prompts you to enter player numbers at the beginning of each new game. (See [“ENTER LINEUP \(MP-70 ONLY\)” ON PAGE 27](#)) If you have entered player numbers for a previous game and will be using the same numbers again, press **NO** at the ENT.H.LINEUP and ENT.V.LINEUP prompts. Otherwise, press **YES** at these prompts. Then enter up to 15 player numbers per team, pressing **ENTER** after each.

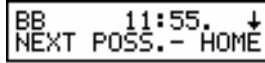


Note: The scoreboard blanks while you enter team lineups at the start of a new game. When you have finished entering player numbers, scoring data is again visible.

If you pressed **NO** at the ENTER LINEUP prompt, the MP-70 automatically records up to fifteen player numbers per team as you track player fouls or points during the game.

Controlling the possession lights

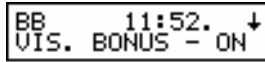
Press the **NEXT. POSS.** key to alternate between the home and visitor possession lights. If you want to turn both lights off, press **NEXT POSS.** and then press **SHIFT+BLANK**.



BB 11:55. ↓
NEXT POSS. - HOME

Controlling the bonus lights

The **HOME BONUS** and **VISITOR BONUS** keys each provide these three options: BONUS ON, DOUBLE BONUS, or BONUS OFF. Press these keys repeatedly to cycle through the three options.



BB 11:52. ↓
VIS. BONUS - ON

Setting the timer (MP-70 only)

You can program and store two different default shot timer clock durations (reset times) in permanent memory. This is especially useful when games requiring different timer clock reset values are played back to back, for example, a junior varsity girls' contest followed by a varsity boys' game.

Shot timer default reset values can be set into the control's permanent memory either while entering sport specific settings for basketball, or when selecting the shot timer reset value as detailed in the following instructions.

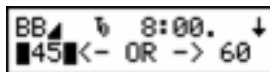
The shot timer reset value is selectable only when the game clock seconds = 00, home & visitor score = 0, and the game clock is not counting. In other words, after the control is set for a new game (see ["NEW GAME" ON PAGE 22](#)) and before a new game has started. When these conditions are met, press the **SET TIMER/T.O.D.** key twice and the LCD screen will appear as shown below.

The LCD screen displays the current game clock time as '8:00.' with a downward arrow on the right. Below this, it asks 'CHG. RES. TIME?Y/N'.

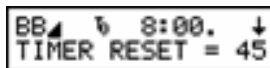
Press **YES** to select or program a different shot clock reset time. The bottom half of the LCD screen will display the current values for both clocks. The currently selected reset value is highlighted with dark brackets. In the example screen below, the current shot timer reset value is 60 seconds.

The LCD screen displays '45' on the left and '60' on the right, both with dark brackets underneath. Between them are navigation arrows: a left arrow, 'OR', and a right arrow.

To keep the currently selected reset time, press the **ENTER** key. To select the other time, press **SHIFT+NEXT** to highlight it then press the **ENTER** key. If you want to change either reset value, highlight the desired value with the **SHIFT+NEXT** keys then use the numeric keypad to enter a new two-digit time. Press the **ENTER** key to keep it as your new default reset time.



The bottom half of the LCD screen will confirm your selection by displaying **TIMER RESET=** the shot timer clock reset value in seconds (see example below). Once the game has started, the shot timer displays will reset to the selected value whenever the HS-70 hand switch reset button is activated.



Displaying player statistics (MP-70 only)

Follow these steps to place a player in the game and display that player's statistics on scoreboards equipped with five or six player (per team) statistics panels.

1. Press **HOME FOULS** or **VISITOR FOULS**.
2. Press **+2 IN/OUT**.
3. At the **PLAYER NO.** prompt, type the player number and then press **ENTER**. The player's statistics will appear in the first open position of the home or visitor statistics panel.

Or

1. Press **HOME/VISITOR FOULS** or **HOME/VISITOR POINTS**.
2. Press one of the following keys to adjust the player fouls or score by the increment indicated: +1, +2 or +3.
3. At the **PLAYER NO.** prompt, type the player number and then press **ENTER**. The player's statistics will flash 10 times in the first open position or the home or visitor statistics panel, and also appear for 15 seconds in the player foul regions of the scoreboard.

Removing a player from the game

Follow these steps to remove a player from the game and exclude that player's statistics from displaying on the statistics panels:

1. Press **HOME FOULS** or **VISITOR FOULS**.
2. Press **+2 IN/OUT**.
3. At the **PLAYER NO.** prompt, type the player number and then press **ENTER**. The player's statistical information will be removed from the statistics panel display, but remains in memory.

Mass player substitution

Follow these steps to remove all of the players from either team for a mass player substitution. This action will take all players out of the game who had been marked as being in the game.

1. Press **HOME FOULS** or **VISITOR FOULS**.
2. Press **+2 IN/OUT**.
3. Press the **CLR** key.

The home or visitor statistics panel will go blank. You may now display statistics for the new players by placing them in the games as outlined earlier in this section.

Updating score/tracking player points (MP-70 only)

When you are using the points memory option (see [“POINTS MEMORY \(MP-70 ONLY\)” ON PAGE 27](#)), the process of updating the score is slightly different from the steps in [“UPDATING THE SCORE” ON PAGE 16](#). Update the score as instructed below.

1. Press **HOME SCORE** or **VISITOR SCORE**.
2. Press **+1**, **+2** or **+3** to increase the score by the increment indicated. The prompt below appears on the LCD display.

A rectangular LCD display showing two lines of text. The top line reads "BB 10:55. ↓" and the bottom line reads "ENTER PLY. #".

3. On the numeric keypad, type the number of the scoring player and then press **ENTER**.

After you enter the player number, the player's statistics appear in the player fouls region of the scoreboard (on some models, this region of the scoreboard also displays player points). The player statistics blank automatically after 15 seconds but remain in memory. On scoreboards equipped with statistics panels, that player's statistics will flash 10 times on the appropriate panel.

Tracking fouls (MP-70 only)

Follow these steps to update team and player fouls.

1. Press **HOME FOULS** or **VISITOR FOULS**.

BB	11:51.	↓
H.TEAM	FOULS	1

2. Press **+1**. The team fouls count increases by one.

BB	10:55.	↓
ENTER	PLY. #	

If the foul memory feature is active, the prompt above appears on the LCD display.

On the numeric keypad, type the player number and then press **ENTER**. The player's statistics appear for fifteen seconds in the player fouls region of the scoreboard and flash 10 times on statistics panels if the scoreboard is so equipped.

If you need to correct the team fouls value, follow these steps:

1. Press **HOME FOULS** or **VISITOR FOULS**.
2. On the numeric keypad, enter the total number of fouls and then press **ENTER**.



Note: When you use the **+1** key to update team fouls, the number of team fouls stops increasing when it reaches the maximum number of team fouls allowed. This is the value you have specified at the MAX.T.FOULS prompt in the sport-specific settings for basketball on ["MAXIMUM TEAM FOULS" ON PAGE 28.](#)

Correcting player statistics (MP-70 only)

If the points memory feature is active (see “POINTS MEMORY (MP-70 ONLY)” ON PAGE 27), follow the steps below to correct player fouls or points as needed.

1. Press **HOME FOULS** or **VISITOR FOULS**.

BB	10:55.	↓
ENTER PLY. #		

2. Press **FOULS/PLAYER**. The prompt appears, as shown above.
3. Type the player number and then press **ENTER**.
4. At the ENTER FOULS prompt, type the number of player fouls and then press **ENTER**.
5. At the ENTER PTS. prompt, type the number of player points and then press **ENTER**. The player’s statistics appear for fifteen seconds in the player fouls region of the scoreboard and flash 10 times on statistics panels if the scoreboard is so equipped.

If the points memory feature is not active, follow these steps to correct player fouls:

1. Press **HOME FOULS** or **VISITOR FOULS**.

BB	10:55.	↓
ENTER PLY. #		

2. Press **FOULS/PLAYER**. The prompt appears, as shown above.
3. On the numeric keypad, enter the number of player fouls.
4. At the PLAYER NO. prompt, type the player number and then press **ENTER**. The player’s statistics appear for 15 seconds in the player fouls region of the scoreboard.

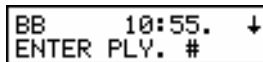


Note: These steps do not alter the team fouls or total score; if those values require correction, you must adjust them separately.

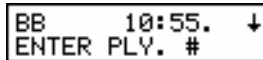
In situations where you wish to display information for two players on the team fouls panel, use the above key sequence to enter both player's statistics in the order you want them displayed. This input is double buffered which means that the first player's information will display for 15 seconds followed immediately by the second player's information, also for 15 seconds.

You can also use the **FOULS/PLAYER** key to cycle through records in the team lineups. This allows you to verify player statistics and make corrections as necessary. Follow these steps:

1. Press **HOME FOULS** or **VISITOR FOULS**. Then press **FOULS/PLAYER**. One of the prompts appears, as shown below.



BB 10:55. ↓
ENTER PLY. #



BB 10:55. ↓
ENTER PLY. #

2. Press **FOULS/PLAYER** again. The statistics for the first player in the selected team lineup appear on the LCD display. (Player points appear only if the points memory feature is active.)
3. Press **FOULS/PLAYER** repeatedly to cycle through the statistics for each player.

You can correct a player's statistics as you cycle through the player records. If the points memory feature is active, type the player number on the numeric keypad and then press **ENTER**. Type the new values at the ENTER FOULS and ENTER PTS. prompts, pressing **ENTER** after each.

If the points memory feature is not active, enter the number of player fouls. At the PLAYER NO. prompt type the player number and press **ENTER**.

Again, correcting an individual player's statistics does not alter the team fouls or total score; if those values require correction, you must adjust them separately.

5

Football

If football is not the sport currently selected on the MP-70/50, or if you want to change the controller's settings for football, see ["SELECTING AND CHANGING SPORTS" ON PAGE 175](#).

You should also verify that the controller has been programmed to use the correct scoreboard type and data format as instructed in ["PROGRAMMING THE SYSTEM SETTINGS" ON PAGE 151](#).

Sport-specific settings for football

When you select football as instructed on ["SELECTING AND CHANGING SPORTS" ON PAGE 175](#), the MP-70/50 offers the sport-specific settings discussed below. When you adjust these settings, the MP-70/50 stores your selections in permanent memory. Your settings become active each time you select football in the future.

- The sequence shown on the following pages presents you with all of the options you could encounter while programming sports-specific settings. However, these options presented to you may vary, depending upon the type of your control (MP-70 or MP-50), the version number of the firmware in your control, the two-digit board type that you've selected, or your scoreboard model. Hence, not all of the options outlined in this chapter may appear on your control.
- As you run through the following programming sequence, and you find the need to back up to a previous programming option earlier in the sequence, you can back up by selecting **SHIFT+8**.
- You may skip a prompt by pressing the **NEXT** key. This will advance you to the next prompt, but will save the existing settings of your current prompt without making any changes. However, Fair-Play advises that you respond YES or NO to all prompts, so that you have made all of the appropriate selections for your sports event.

- You may exit the programming sequence at any time by pressing the **ESC** key. This will take you to the Quit prompt.

Update yardage

```
- CHANGE SPORT -  
UPDATE YARD? Y/N
```

If you respond **YES** to the prompt shown above, the yardage values you enter using the **DOWN PLACE, TO GO**, and **BALL ON EVENT** keys appear on the scoreboard automatically. Selecting **YES** deactivates the **DISPLAY D, TG, BO** key. If you press **NO**, you can display or blank the yardage values simultaneously using the **DISPLAY D, TG, BO** key.

Minutes tens to connector 2

```
- CHANGE SPORT -  
MT TO CONN2? Y/N
```

This setting is exclusive to the FB-8218TK scoreboard, which supports football soccer and track. It is available only when you have programmed the MP-70/50 for use with the FB-8218TK (scoreboard type number 26). See [“PROGRAMMING THE SYSTEM SETTINGS” ON PAGE 151](#) for more information on scoreboard types.

When you are using the FB-8218TK scoreboard for football or soccer, press **YES** at this prompt. Press **NO** only when you are using the FB-8218TK scoreboard for a track and field event. When you press **NO**, the MP-70/50 transmit tenths of seconds data to connector 2 of the scoreboard processor pack. You must also redirect the writing at the scoreboard to complete this change.

If you are using a scoreboard other than model FB-8218TK always press **YES** at this prompt.

Countdown clock

```
- CHANGE SPORT -  
COUNT DN. CLK? Y/N
```

Press **YES** if you want the clock to count down or **NO** if you want the clock to count up.

Tenths of seconds clock

```
- CHANGE SPORT -  
1/10SEC CLK? Y/N
```

If you want the clock to display tenths of seconds in the last minute play, press **YES**. This setting is unavailable if the clock is counting up.



*Note: If you have a four-digit game clock (MM:SS), and you desire a 1/10th seconds display in the last minutes of a period, you must respond **YES** to both the 1/10th SEC CLK and the JUMPING CLK questions. Otherwise, the horn will appear to sound one second late.*

Jumping clock

```
- CHANGE SPORT -  
JUMPING CLK? Y/N
```

This setting is helpful when your scoreboard does not have a fifth digit for tenths of seconds. If you choose this option, the digits representing seconds move to the left of the colon in the last minute of play, and tenths of seconds appear to the right of the colon. This setting is available only when you have selected the tenths of seconds clock above.

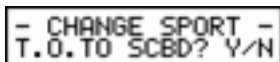
Auto horn



```
- CHANGE SPORT -  
AUTO HORN? Y/N
```

If you press **YES** to select auto horn, this mode is active each time you select football as the sport. You can still use the **AUTO HORN** key to turn this feature on and off as instructed at [“SOUNDING THE HORN” ON PAGE 17](#).

Timeout to scoreboard



```
- CHANGE SPORT -  
T.O. TO SCBD? Y/N
```

If you want the timeout timer to appear on the scoreboard, press **YES**. If you press **NO**, the timer appears only on the MP-70/50's LCD display.

Timer set to (MP-70 only)



```
- CHANGE SPORT -  
TIMER SET TO? 00
```

On the numeric keypad, enter the duration of the field timer in seconds and then press **ENTER**.

Clock set to



```
- CHANGE SPORT -  
CLOCK SET TO? 00
```

On the numeric keypad, enter the duration of the game period in minutes and then press **ENTER**.

Break set to

```
- CHANGE SPORT -  
BREAK SET TO? 00
```

On the numeric keypad, enter the duration of the break period (half time) in minutes and then press **ENTER**.

Overtime set to

```
- CHANGE SPORT -  
O.T. SET TO? 00
```

On the numeric keypad, enter the duration of the break period (half time) in minutes and then press **ENTER**.

-

Timeout timer set to

```
- CHANGE SPORT -  
T.O. TIMER TO? 00
```

On the numeric keypad, enter the number of seconds per time out and then press **ENTER**.

Number of timeouts left

```
- CHANGE SPORT -  
# OF TOLS, 1T09?
```

Enter the number of timeouts allowed, either per game or per half. When you press **SHIFT+NEW GAME**, this value resets automatically. If you are tracking timeouts by half, you must manually reset the number of timeouts left at halftime.

Operating the control in a football game

Before continuing with this chapter, be sure the letters FB appear in the upper-left corner of the LCD display. This indicates that football is the sport currently selected. If you see a different code, select football as instructed at ["SELECTING AND CHANGING SPORTS" ON PAGE 175](#). You may want to adjust the sport-specific settings for football as instructed earlier in this chapter.

See ["COMMON FUNCTIONS" ON PAGE 13](#) for a discussion of several functions of the MP-70/50 that are important to its operation in a football game, such as operating the clock and updating the score.

Operating the possession lights



Press **POSS.** to alternate between the home and guest possession lights. To turn both lights off, press **POSS.**; then press **SHIFT+BLANK.**

Display yardage

Follow these steps to enter or update the down number.

1. Press **DOWN PLACE.**
2. Press one of following keys to adjust the down number by the increment indicated **+1**, **+2**, **+3** or **-1**.

Or

1. Press **DOWN PLACE.**
2. On the numeric keypad, enter the new down number and then press **ENTER.**

Follow these steps to enter or update the yards to go:

1. Press **TO GO.**

2. Press one of the following keys to adjust the yardage by the increment indicated: **+1**, **+2**, **+3**, or **-1**.

Or

1. Press **TO GO**.
2. On the numeric keypad, enter the new yardage and then press **ENTER**.

In the first down situations, you can immediately set first down and ten yards to go by pressing **SHIFT + 1 & 10**. See ["1ST & 10" ON PAGE 23](#) for further information.

Follow these steps to enter or update the ball on value:

1. Press ball on event.
2. Press one of the following keys to adjust the yardage by the increment indicated: **+1**, **+2**, **+3** or **-1**.

Or

1. Press **BALL ON EVENT**.
2. On the numeric keypad, enter the new yardage and then press **ENTER**.

If you pressed **YES** at the UPDATE YARD prompt in the sport-specific settings for football, the yardage values you enter, using the **DOWN PLACE**, **TO GO**, and **BALL ON EVENT** keys appear on the scoreboard automatically, if you pressed **NO**, you can display or blank these values on the scoreboard simultaneously by pressing **DISPLAY D**, **TG**, **BO** at any time.

```
FB 10:01. ↓
STATS DISPLAYED
```

```
FB 10:01. ↓
STATS BLANKED
```


6

Hockey

If hockey is not the sport currently selected on the MP-70/50 or if you want to change the controller's settings for hockey, see ["SELECTING AND CHANGING SPORTS" ON PAGE 175](#).

You should also verify that the controller has been programmed to use the correct scoreboard type and data format as instructed in ["PROGRAMMING THE SYSTEM SETTINGS" ON PAGE 151](#).

Sport-specific settings for hockey

When you select hockey as instructed on ["SELECTING AND CHANGING SPORTS" ON PAGE 175](#), the MP-70/50 offers the sport-specific settings discussed below. When you adjust these settings, the MP-70/50 stores your selections in permanent memory. Your settings become active each time you select hockey in the future.

- The sequence shown on the following pages presents you with all of the options you could encounter while programming sports-specific settings. However, these options presented to you may vary, depending upon the type of your control (MP-70 or MP-50), the version number of the firmware in your control, the two-digit board type that you've selected, or your scoreboard model. Hence, not all of the options outlined in this chapter may appear on your control.
- As you run through the following programming sequence, and you find the need to back up to a previous programming option earlier in the sequence, you can back up by selecting **SHIFT+8**.
- You may skip a prompt by pressing the **NEXT** key. This will advance you to the next prompt, but will save the existing settings of your current prompt without making any changes. However, Fair-Play advises that you respond YES or NO to all prompts, so that you have made all of the appropriate selections for your sports event.

- You may exit the programming sequence at any time by pressing the **ESC** key. This will take you to the Quit prompt.

Interval timer on

The interval timer is essentially a clock within a clock, allowing you to divide the game period into shorter segments as necessary. For example, you might use this function when the hockey teams consist of multiple squads; when the horn sounds at the end of an interval, one squad replaces another in the rink.

The horn sounds when the interval timer expires, but the game clock is unaffected. After the horn sounds, the interval timer automatically resets to the amount of time you have specified.

To turn this timer on, press **YES** at the prompt shown below. To turn the timer off, press **NO**.

```
- CHANGE SPORT -  
INT. TIMER ON?Y/N
```

```
- CHANGE SPORT -  
INT. TIME? --:--
```

If you press **YES**, the MP-70/50 prompts you to enter the duration of the interval clock. Enter the duration using the numeric keypad and then press **ENTER**.

If you choose the Interval Timer, a lower-case "i" appears in the middle of the upper line of the LCD screen, as shown below.

```
HK 02 i09:31. ↓  
-HOCKEY-
```

10' Penalty Spots



Note: The following option is intended for use with European hockey rules.

```
-CHANGE SPORT-
10' PEN. SPOTS? Y/N
```

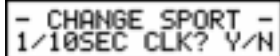
If you choose **YES** for this option, then players who receive a 10-minute penalty will automatically have those penalties shown on the two 10-minute penalty indicator lights used on European hockey scoreboards. Thus, that penalty will not appear in the usual player/penalty digits. (However, the penalty clock will count down the 10 minutes even though it is not displayed in the player/penalty digits). When the penalty clock has counted to 0, the penalty indicator light will turn off.

Countdown clock

```
- CHANGE SPORT -
COUNT DN. CLK?Y/N
```

Press **YES** if you want the clock to count down or **NO** if you want the clock to count up.

Tenths of seconds clock



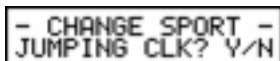
- CHANGE SPORT -
1/10SEC CLK? Y/N

If you want the clock to display tenths of seconds in the last minute of play, press **YES**. This setting is unavailable if the clock is counting up.



*Note: If you have a four-digit game clock (MM:SS), and you desire a 1/10th seconds display in the last minutes of a period, you must respond **YES** to both the 1/10th SEC CLK and the JUMPING CLK questions. Otherwise, the horn will appear to sound one second late.*

Jumping clock



- CHANGE SPORT -
JUMPING CLK? Y/N

This setting is helpful when you scoreboard does not have a fifth digit for tenths of seconds. If you choose this option, the digits representing seconds move to the left of the colon in the last minute of play, and tenths of seconds appear to the right of the colon. This setting is available only when you have selected the tenths of seconds clock above.

Auto horn



- CHANGE SPORT -
AUTO HORN? Y/N

If you press **YES** to select auto horn, this mode is active each time you select soccer as the sport. You can still use the **AUTO HORN** key to turn this feature on and off as instructed on [“SOUNDING THE HORN” ON PAGE 17](#).

Timeout to scoreboard

```
- CHANGE SPORT -  
T.O.TO SCBD? Y/N
```

If you want the timeout timer to appear on the scoreboard, press YES. If you press **NO**, the timer appears only on the MP-70/50's LCD display.

Timer set to (MP-70 only)

```
- CHANGE SPORT -  
TIMER SET TO? 00
```

On the numeric keypad, enter the duration of the game period in minutes and then press **ENTER**.

Clock set to

```
- CHANGE SPORT -  
CLOCK SET TO? 00
```

On the numeric keypad, enter the duration of the game period in minutes and then press **ENTER**.

Break set to

```
- CHANGE SPORT -  
BREAK SET TO? 00
```

On the numeric keypad, enter the duration of the break period (half time) in minutes and then press **ENTER**.

Overtime set to



- CHANGE SPORT -
O.T. SET TO? 00

On the numeric keypad, enter the duration of the overtime period in minutes and then press **ENTER**.

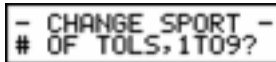
Timeout timer set to



- CHANGE SPORT -
T.O. TIMER TO? 00

On the numeric keypad, enter the number of seconds per timeout and then press **ENTER**.

Number of timeouts left



- CHANGE SPORT -
OF TOLS, 1T09?

Enter the number of timeouts allowed, either per game or per half. When you press **SHIFT+NEW GAME**, this value resets automatically. If you are tracking timeouts by half, you must manually reset the number of timeouts left at half time.

Operating the control in a hockey game

Before continuing with this chapter, be sure the letters **HK** appear in the upper-left corner of the LCD display. This indicates that hockey is the sport currently selected. If you see a different code, select hockey as instructed at [“SELECTING AND CHANGING SPORTS” ON PAGE 175](#). You may want to adjust the sport-specific settings for hockey as instructed earlier in this chapter.

You should also be familiar with the information in the chapter titled [“COMMON FUNCTIONS” ON PAGE 13](#) before continuing with this chapter. This chapter discusses several functions of the MP-70/50 that are important to its operation in a hockey game, such as operating the clock and updating the score.

Displaying shots on goal

The **HOME S.O.G.** or **VISITOR S.O.G.** keys work much like the **SCORE** keys. Follow these steps to use them.

HK	10:02.6	↑
H. S.O.GOAL		4

1. Press **HOME S.O.G.** or **VISITOR S.O.G.**
2. Press one of the following keys to adjust the shots on goal value by the increment indicated: **+1**, **+2**, **+3** or **-1**.

Or

1. Press **HOME S.O.G.** or **VISITOR S.O.G.**
2. On the numeric keypad, enter the new shots on goal value and then press **ENTER**.

Manually controlling goal indicators

The **HOME GOAL** and **VISITOR GOAL** keys provide manual control of the goal indicator lights. Pressing either of these keys will turn the corresponding goal indicators on or off.

Entering penalties

By default, the MP-70/50 allows you enter penalty times in two-minute, five-minute, and 10-minute increments using the **+1**, **+2** and **+3** keys respectively.

Entering single penalties

Follow these steps to enter a penalty time for single penalties:

1. Press **HOME PENALTY** or **VISITOR PENALTY**
2. Press **+1**, **+2** or **+3** keys to assign a penalty time for a single player. These keys will assign penalties according to the following pre-set times:
 - **+1** = 2 minutes.
 - **+2** = 5 minutes.
 - **+3** = 10 minutes.
 - **-1** = other (multiple) penalties (see [“ENTERING MULTIPLE PENALTIES” ON PAGE 62](#)).If a player receives two back-to-back penalties, you can press another of the **+** keys to add two penalty times together.



Note: If a player receives two back-to-back penalties, follow the sequence titled [“ENTERING MULTIPLE PENALTIES” ON PAGE 62](#).

3. At the **ENTER PLY.NO.** prompt, enter the player number on the numeric keypad and then press **ENTER**.
4. The player number and penalty time now appears on the LCD.

If you hit the **ENTER** key before you enter in the player number, the control will not accept the penalty. Instead, you will see a screen similar to the one below, stating “NO PENALTY FOUND.” Re-enter the penalty and player number using the correct sequence.

```
HK 02 12:01. ↓  
NO PENALTY FOUND
```


When you enter a penalty, the penalty indication arrow for the appropriate time lights for 12 seconds.



Note: Depending upon the type of scoreboard, penalty indication arrows may not be present.

There are two penalty clocks per team, and the MP-70/50 can store up to three additional penalties per team in memory. This means only the first two penalties in memory for each team will count down. When there are three or more penalties in memory at once, the third penalty begins to count down when one of the first two expires.

Penalty timers count down only when the game clock is running during a regular game period; they do not count down during break periods.

```

HK      W 5:54.45†
CORR. PENALTY?Y/N
  
```

If you correct the game clock during a game period when penalty times are entered, the above prompt appears.

- Press **SHIFT+ NO** to accept the current times.
- Press **SHIFT+ YES** if you want to correct the penalties that are actively counting. If you press **SHIFT+ YES**, the MP-70/50 prompts you to enter new times for each counting penalty. Enter the new time for each penalty as prompted, pressing **ENTER** after each.

Entering multiple penalties

If a player receives more than one penalty time, such as two 2-minute penalties, or a 2-minute plus a 5-minute penalty, these multiple penalty times can be entered into the control by two different methods, explained on the following pages.

- In the first method, [“ENTERING TWO PENALTIES WITH PLUS KEYS” ON PAGE 63](#), you can hit a sequence of two different plus (+) keys which automatically enter penalties according to a pre-set time. These two penalties will then be added up and displayed as one totaled penalty time.
- In the second method, [“ENTERING OTHER PENALTIES” ON PAGE 64](#), you can use the **OTHER** key to enter a pre-set combination of two (or in one case, three) penalty times. These two (or three) penalties then will be timed in sequence by the penalty clock.



*Note: If, after entering the player penalties, you decide to cancel a player penalty (see [“CANCEL INDIVIDUAL PENALTIES” ON PAGE 65](#)), it is possible to cancel the penalties you entered using the plus (+) keys. However, it is **NOT** possible to cancel a multiple penalty that was entered using the **OTHER** key. You can only cancel penalties in the queue that are to be counted by the penalty clock.*

Entering two penalties with plus keys

1. Press the **HOME PENALTY** or **VISITOR PENALTY** keys.
2. Press **+1**, **+2** or **+3** keys to assign a penalty time for a single player. Each of these three keys automatically enters the amount of penalty time(s) you specified in Program Mode's sport-specific settings for hockey (see "[SPORT-SPECIFIC SETTINGS FOR HOCKEY](#)" ON PAGE 53). (This first penalty time will not display on the LCD until you enter in the player number in Step 4).
3. Press the **+1**, **+2** or **+3** keys to assign a second penalty time for that single player. The penalty clock will then automatically add up these two penalty times. (Likewise, This second penalty time also will not display on the LCD until you enter in the player number in Step 4).
4. At the **ENTER PLY.NO.** prompt, enter the player number on the numeric keypad and then press **ENTER**.
5. The player number and tallied penalty time now appears on the LCD.

Example:

Player #23 receives a two-minute plus a five-minute penalty. The MP-70/50 user presses the **+1** and **+2** keys on the control, then enters in 23 for the player number, thus giving player #23 a total of seven (2+5) minutes in penalties. This tally of seven minutes is displayed on the LCD, as shown below.

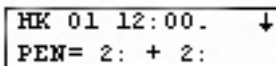
HK 01	22:59	↓
V.#23	7:00	

If you hit the **ENTER** key before you enter in the player number, the control will not accept the penalty. Instead, you will see a screen similar to the one below, stating "NO PENALTY FOUND." Re-enter the penalty and player number using the correct sequence.

HK 02	12:01.	↓
NO PENALTY FOUND		

Entering Other penalties

1. Press **HOME PENALTY** or **VISITOR PENALTY**.
2. Press the **OTHER** key, which is located on the top right-hand side of your Hockey overlay keypad of the Rev. A keypad version. (This **OTHER** key does not appear on hockey keypads issued earlier than April 3, 2006).
3. A screen appears, as shown below. The bottom row of text represents the penalty times that a player will be assigned. If you choose the first prompt, as shown below, the player will be given two 2-minute penalties, which will be timed in sequence by the penalty clock.



HK 01 12:00. ↓
PEN= 2: + 2:

You can scroll through several different penalty combinations by pressing the **OTHER** key multiple times. Other penalty time options are listed in the following sequence:

- 2 minutes + 2 minutes
 - 5 minutes + 2 minutes
 - 5 minutes + 5 minutes
 - 2 minutes + 10 minutes
 - 5 minutes + 10 minutes
 - 2 minutes + 2 minutes + 10 minutes
 - 1 minute
 - 3 minutes
4. After selecting the correct other penalty times, enter the player number, and then press **ENTER**.



*Note: When using the **OTHER** key to enter a penalty, you will not be prompted to enter a player number. However, you must enter a player number after selecting the penalty time in order to enter the penalty in the control.*

- The player's number, and that player's current penalty in memory appears on the LCD display, as shown below. In this instance, the Home Team Player #36 has received two 2-minute penalties, which will be counted down separately, in sequence, by the penalty clock.

HK 01 12:00.
H.#36 2:+2:



*Note: As explained in the note in "ENTERING MULTIPLE PENALTIES" ON PAGE 62, it is NOT possible to cancel a multiple penalty that was entered using the **OTHER** key. You can only cancel penalties in the queue that are to be counted by the penalty clock.*

Cancel individual penalties

Follow these steps to correct or cancel an individual penalty:

- Press **HOME PENALTY** or **VISITOR PENALTY**.
- Enter the player number, and then press **ENTER**.
The current penalty in memory appears on the LCD display.
- Press **ENTER** to cancel the penalty. To correct the penalty time, enter the new time on the numeric key pad and then press **ENTER**.

Edit or clear penalties

- Press **HOME PENALTY** or **VISITOR PENALTY**.
- Press the **CLR** key to clear the penalty.
- The control prompts you for a player number. Enter the player number and press **ENTER**. The control then displays the time of penalty in memory.

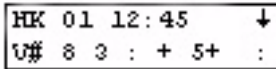
OR

Use the numeric keypad to key in a different amount of time.

- Press **ENTER**.

Tracking penalties

To view, or track existing team penalties, hold down the **SHIFT** key and hit the **HOME PENALTY** or **VISITOR PENALTY** keys. This will show the player number and the initial penalty assigned that player, as shown below.



Scroll through all home team or visitor team penalties by pressing the **HOME PENALTY** or **VISITOR PENALTY** keys while continuing to press down on the **SHIFT** key at the same time.

- The tracking penalties feature only shows the total penalty times assessed to an individual player. It does not show the player's remaining penalty times on the MP-70/50 LCD screen. Refer to the scoreboard for the players' remaining penalty time information.
- Players appearing in the 10-minute penalty spots indicator lights (see ["10' PENALTY SPOTS" ON PAGE 55](#)), will appear on the LCD screen with other players appearing in the player/penalty digits. Similar to above, the total penalty time (in this case, 10 minutes) of the player indicated by the 10-minute penalty lights appears as you scroll through the LCD screen. Although the penalty clock is counting down that player's 10-minute penalty, you will not be able to view the amount of time remaining for that player's 10-minute penalty.

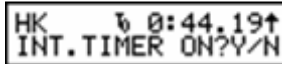
Using the interval timer

While the interval timer settings are usually adjusted in PROGRAM mode, you can also start, stop or change the duration of the interval timer during a hockey game if necessary. For more information on the interval timer setting available in PROGRAM mode, see [“INTERVAL TIMER ON” ON PAGE 54](#).

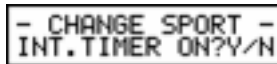
Follow these steps to start or stop the interval timer during a game:



HK 0:44.19↑
INT.TIMEROFF?Y/N



HK 0:44.19↑
INT.TIMER ON?Y/N



- CHANGE SPORT -
INT.TIMER ON?Y/N

1. With the game clock stopped press **SHIFT+SET INTERVAL ON/OFF**. One of the prompts shown above will appear on the LCD display.
2. Press **YES**.



Wrestling

If wrestling is not the sport currently selected on the MP-70/50, or if you want to change the controller's settings for wrestling, see ["SELECTING AND CHANGING SPORTS" ON PAGE 175](#).

You should also verify that the controller has been programmed to use the correct scoreboard type and data format as instructed in ["PROGRAMMING THE SYSTEM SETTINGS" ON PAGE 151](#).

Sport-specific settings for wrestling

When you select wrestling as instructed at ["SELECTING AND CHANGING SPORTS" ON PAGE 175](#) the MP-70/50 offers the sport-specific settings discussed below. When you adjust these settings, the MP-70/50 stores your selections in permanent memory. Your settings become active each time you select wrestling in the future.

- The sequence shown on the following pages presents you with all of the options you could encounter while programming sports-specific settings. However, these options presented to you may vary, depending upon the type of your control (MP-70 or MP-50), the version number of the firmware in your control, the two-digit board type that you've selected, or your scoreboard model. Hence, not all of the options outlined in this chapter may appear on your control.
- As you run through the following programming sequence, and you find the need to back up to a previous programming option earlier in the sequence, you can back up by selecting **SHIFT+8**.
- You may skip a prompt by pressing the **NEXT** key. This will advance you to the next prompt, but will save the existing settings of your current prompt without making any changes. However, Fair-Play advises that you respond YES or NO to all prompts, so that you have made all of the appropriate selections for your sports event.

- You may exit the programming sequence at any time by pressing the **ESC** key. This will take you to the Quit prompt.

Countdown clock

```
- CHANGE SPORT -  
COUNT DN. CLK? Y/N
```

Press **YES** if you want the clock to count down or **NO** if you want the clock to count up.

Tenths of seconds clock

```
- CHANGE SPORT -  
1/10SEC CLK? Y/N
```

If you want the clock to display tenths of seconds in the last minute of play, press **YES**. This setting is unavailable if the clock is counting up.



*Note: If you have a four-digit game clock (MM:SS), and you desire a 1/10th seconds display in the last minutes of a period, you must respond **YES** to both the 1/10th SEC CLK and the JUMPING CLK questions. Otherwise, the horn will appear to sound one second late.*

Jumping clock

```
- CHANGE SPORT -  
JUMPING CLK? Y/N
```

This setting is helpful when your scoreboard does not have a fifth digit for tenths of seconds. If you choose this option, the digits representing seconds move to the left of the colon in the last minute of play, and tenths of seconds appear to the right of the colon. This setting is available only when you have selected the tenths of seconds clock above.

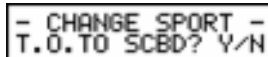
Auto horn



- CHANGE SPORT -
AUTO HORN? Y/N

If you press **YES** to select auto horn, this mode is active each time you select wrestling as the sport. You can still use the **AUTO HORN** key to turn this feature on and off as instructed at ["SOUNDING THE HORN" ON PAGE 17](#).

Timeout to scoreboard



- CHANGE SPORT -
T.O. TO SCBD? Y/N

If you want the timeout timer to appear on the scoreboard, press **YES**. If you press **NO**, the timer appears only on the MP-70/50's LCD display.

Clock set to



- CHANGE SPORT -
CLOCK SET TO? 00

On the numeric keypad, enter the duration of the game period in minutes and then press **ENTER**.

Break set to



- CHANGE SPORT -
BREAK SET TO? 00

On the numeric keypad, enter the duration of the break period (half time) in minutes and then press **ENTER**.

Overtime set to



A rectangular display showing the text: - CHANGE SPORT -
O.T. SET TO? 00

On the numeric keypad, enter the duration of the overtime period in minutes and then press **ENTER**.

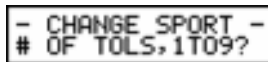
Timeout timer set to



A rectangular display showing the text: - CHANGE SPORT -
T.O. TIMER TO? 00

On the numeric keypad, enter the number of seconds per timeout and then press **ENTER**.

Number of timeouts left



A rectangular display showing the text: - CHANGE SPORT -
OF TOLS, 1T09?

Enter the number of timeouts allowed. When you press **SHIFT_NEW GAME**, this value reset automatically.

Operating the control in a wrestling match

Before continuing with this chapter, be sure the letters WR appear in the upper-left corner of the LCD display. This indicates that wrestling is the sport currently selected. If you see a different code, selected wrestling as instructed at [“SELECTING AND CHANGING SPORTS” ON PAGE 175](#). You may want to adjust the sport-specific settings for wrestling as instructed earlier in this chapter.

You should also be familiar with the information in [“COMMON FUNCTIONS” ON PAGE 13](#), which discusses several functions of the MP-70/50 that are important to its operation in a wrestling match.

Displaying match weight

The match weight appears in the player fouls area of the scoreboard. Follow these steps to display match weight:

1. Press **WEIGHT GAME**.
2. Enter the match weight on the numeric keypad and then press **ENTER**.

If you are using the BB-6620TA scoreboard, the **WEIGHT GAME** key lets you alternate between the time-advantage clock and match weight on the scoreboard.

Controlling the time-advantage clock

Follow these steps to set the time-advantage clock

1. Press **SET TIMER**.
2. Enter the time on the numeric keypad and then press **ENTER**.

You must use a hand switch to control the time-advantage clock.

Displaying previous match scores

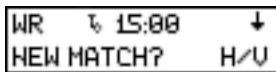
Up to ten previous match scores can be displayed on scoreboards that have five or six player stat panels.



Note: If your scoreboard does not have stat panels this procedure will not work.

At the end of a match, follow these steps to display the team points awarded and the weight class:

1. Press **SHIFT + NEW MATCH** key.



2. When asked "NEW MATCH?" press the **HOME** or **VISITOR SCORE** key to indicate which team is to be awarded the points. Any other key will abort the procedure.
3. Use the numeric keypad to enter the points awarded (one digit). Then, press the **ENTER** key.



Note: The scoreboard stat panel can only display a single digit for points for each team. Points entered with this procedure will not affect the total team points displayed on the team score digits of the scoreboard. A separate procedure is required for that.

4. When the **ENTER** key is pressed (as described in step 3) the match weight and the winning team's points will be displayed on the next available line of the stat panels. At this time the home and visitor match score digits will be set to zero (0). The weight class will not be changed.

8

Soccer

If soccer is not the sport currently selected on the MP-70/50, or if you want to change the controller's settings for soccer, see ["SELECTING AND CHANGING SPORTS" ON PAGE 175](#).

You should also verify that the controller has been programmed to use the correct scoreboard type and data format as instructed in ["PROGRAMMING THE SYSTEM SETTINGS" ON PAGE 151](#).

Sport-specific Settings for Soccer

When you select soccer, the MP-70/50 offers the sport-specific settings discussed below. When you adjust these settings the MP-70/50 stores your selections in permanent memory. Your settings become active each time you select soccer in the future.

- The sequence shown on the following pages presents you with all of the options you could encounter while programming sports-specific settings. However, these options presented to you may vary, depending upon the type of your control (MP-70 or MP-50), the version number of the firmware in your control, the two-digit board type that you've selected, or your scoreboard model. Hence, not all of the options outlined in this chapter may appear on your control.
- As you run through the following programming sequence, and you find the need to back up to a previous programming option earlier in the sequence, you can back up by selecting **SHIFT+8**.
- You may skip a prompt by pressing the **NEXT** key. This will advance you to the next prompt, but will save the existing settings of your current prompt without making any changes. However, Fair-Play advises that you respond YES or NO to all prompts, so that you have made all of the appropriate selections for your sports event.

- You may exit the programming sequence at any time by pressing the **ESC** key. This will take you to the Quit prompt.

Minutes Tens to Connector 2 (board type 26)

```
- CHANGE SPORT -  
MT TO CONN2? Y/N
```



*Note: If you are using a scoreboard other than model FB-8218TK, and you see this prompt, always press **YES**.*

This setting is exclusive to the FB-8218TK scoreboard (which uses Board Type 26), and which supports three sports: soccer, football, and track. It is available only when you have programmed the MP-70/50 for use with the FB-8218TK (scoreboard type number 26). See [“PROGRAMMING THE SYSTEM SETTINGS” ON PAGE 151](#) for more information on scoreboard types.

- If you are using the FB-8218TK for football, and you answer **YES** to this question, the control will display data in the minutes tens digits of the scoreboard.
- If you are using the FB-8218TK for track and field events, and you answer **NO** to this question, the control will display results in the tenths of seconds digits on the scoreboard.



Note: To complete this change, you will need to connect the appropriate digits in the scoreboard to connector 2 of your digit driver pack.

FIFA Clock

```
- CHANGE SPORT -
FIFA CLOCK? Y/N
```

At the prompt shown above, press **YES** if you plan to use FIFA standards. The FIFA Clock allows the clock count from zero to 45 minutes for the first half and 45 to 90 minutes for the second half. Overtimes are from zero to 15 minutes and from 15 to 30 minutes.

If you respond YES to the FIFA Clock prompt, the next question you will be asked is the "T.O. to SCBD? Y/N" question on page 79.



Note: FIFA stands for Fédération Internationale de Football Association.



*Note: If you choose to play under FIFA standards, the count up clock function is turned on and the auto horn function is turned off by default. Press the **AUTO HORN** key to activate the autohorn function if desired.*

Countdown Clock

```
- CHANGE SPORT -
COUNT DN. CLK?Y/N
```

Press **YES** if you want the clock to count down or **NO** if you want the clock to count up.

Tenths of Seconds Clock

```
- CHANGE SPORT -
1/10SEC CLK? Y/N
```

If you responded YES to COUNT DN CLOCK?, the next prompt to appear will be the 1/10SEC CLK? question. If you want the clock to display tenths of seconds in the last minute of play, press **YES**. This setting is unavailable if the clock is counting up.



*Note: If you have a four-digit game clock (MM:SS), and you desire a 1/10th seconds display in the last minutes of a period, you must respond **YES** to both the 1/10th SEC CLK and the JUMPING CLK questions. Otherwise, the horn will appear to sound one second late.*

Jumping Clock

```
- CHANGE SPORT -
JUMPING CLK? Y/N
```

This setting is helpful when your scoreboard does not have a fifth digit for tenths of seconds. If you choose this option, the digits representing seconds move to the left of the colon in the last minute of play, and tenths of seconds appear to the right of the colon. This setting is available only when you have selected the tenths of seconds clock above.

Auto Horn

```
- CHANGE SPORT -
AUTO HORN? Y/N
```

If you press **YES** to select auto horn, this mode is active each time you select soccer as the sport. You can still use the **AUTO HORN** key to turn this feature on and off as instructed on ["SOUNDING THE HORN" ON PAGE 17](#).

Timeout to Scoreboard

```
- CHANGE SPORT -  
T.O. TO SCBD? Y/N
```

If you want the timeout timer to appear on the scoreboard, press **YES**. If you press **NO**, the timer appears only on the MP-70/50'S LCD display.

Clock Set To

```
- CHANGE SPORT -  
CLOCK SET TO? 00
```

On the numeric keypad, enter the duration of the game period in minutes and then press **ENTER**.

Break Set To

```
- CHANGE SPORT -  
BREAK SET TO? 00
```

On the numeric keypad, enter the duration of the break period (half time) in minutes and then press **ENTER**.

Overtime Set To

```
- CHANGE SPORT -  
O.T. SET TO? 00
```

On the numeric keypad, enter the duration of the overtime period in minutes and then press **ENTER**.

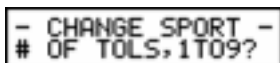
Timeout Timer Set To



- CHANGE SPORT -
T.O. TIMER TO? 00

On the numeric keypad, enter the number of seconds per timeout and then press **ENTER**.

Number of Timeouts Left



- CHANGE SPORT -
OF TOLS, 1T09?

Enter the number of timeouts allowed either per game or per half. When you press **SHIFT+NEW GAME**, this value resets automatically. If you are tracking timeouts by half, you must manually reset the number of timeouts left at the half time.

Operating the Control in a Soccer Game

Before continuing with this chapter, be sure the letters SC appear in the upper-left corner of the LCD display. This indicates that soccer is the sport currently selected. If you see a different code, select soccer as instructed at [“SELECTING AND CHANGING SPORTS” ON PAGE 175](#). You may want to adjust the sport-specific settings for soccer as instructed earlier in this chapter.

You should also be familiar with the information in [“COMMON FUNCTIONS” ON PAGE 13](#), which discusses several functions of the MP-70/50 that are important to its operation in a soccer game, such as operating the clock and updating the score.

Corner Kicks

The **CORNER KICKS** key works much like the **SCORE** key. Follow these steps to use them.

1. Press **CORNER KICKS**.
2. Press one of the following keys to adjust the CORNER KICKS value by the increment indicated: **+1**, **+2**, **+3** and **-1**.

Or

On the numeric keypad, enter the new CORNER KICKS value and then press **ENTER**.

SC	22:00	↓
H.	C.KICKS	2

SC	22:00	↓
V.	C.KICKS	2

Displaying Shots on Goal

SC	5:54.45↑
H.	S.O.GOAL 4

The **HOME S.O.G.** or **VISITOR S.O.G.** keys work much like the **SCORE** key. Follow these steps to use them.

1. Press **HOME S.O.G.** or **VISITOR S.O.G.**
2. Press one of the following keys to adjust the shots on goal value by the increment indicated: **+1**, **+2**, **+3** and **-1**.
3. Press one of the following keys to adjust the shots on goal value by the increment indicated: **+1**, **+2**, **+3** or **-1**.

Or

1. Press **HOME S.O.G.** or **VISITOR S.O.G.**
2. On the numeric keypad, enter the new shots on goal value and then press **ENTER**.

Tracking Penalties in a Soccer Game

In a soccer game, the penalty keys also work much like the **SCORE** keys. Follow these steps to use them.

1. Press **HOME PENALTY** or **VISITOR PENALTY**.
2. Press one of the following keys to change the number of penalties by the increment indicated: **+1**, **+2**, **+3** or **-1**.

Or

On the numeric keypad, enter the new number of penalties and then press **ENTER**.



Note: Not all scoreboards show penalties. Only scoreboard type 40 can display a count of the penalties. Check with your Trans-Lux dealer advisor to see if your scoreboard can display penalty kicks.

Cancelling individual penalties

Follow these steps to correct or cancel an individual penalty.

1. Press **HOME PENALTY** or **VISITOR PENALTY**.
2. Enter the player number and then press **ENTER**.
The current penalty time in memory appears on the LCD display.
3. Press **ENTER** to cancel penalty. To correct the penalty time, enter the new time on the numeric key pad and then press **ENTER**.

FIFA Clock Operation

If the FIFA Clock is selected during the setup for soccer as described on page 77 of this chapter, you will see the following screen when you enter the operation mode with the **TIME IN** Switch in the **OFF** position.

```
SC 45' 0:00
- SOCCER -
```

The clock will run for a 45 minute duration and will count from zero to 45 minutes for the first half.

To change the clock time for periods, press the **CLOCK SET** key. The operator is prompted on the bottom line of the LCD with four clock set

options, changing with each successive **CLOCK SET** key press. The four clock set options are as follows:

- COUNT 00' TO 45' (Counts from zero to 45 minutes)
- COUNT 45' TO 90' (Counts from 45 to 90 minutes)
- COUNT 00' TO 15' (Counts from zero to 15 minutes)
- COUNT 15' TO 30' (Counts from 15 to 30 minutes)

When the desired clock set option is displayed, press **ENTER**.

Adjusting the Time Setting for FIFA Clock

If it is necessary to adjust the time during the course of play, press the **CLOCK SET** key and select the desired time period as shown above. Using the number key pad, enter the minutes and seconds (use four digits) at which the clock should resume its count. When the desired count time is displayed, press **ENTER**.

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Volleyball

If volleyball is not the sport currently selected on the MP-70/50, or if you want to change the controller's settings for volleyball, "[SELECTING AND CHANGING SPORTS](#)" ON PAGE 175.

You should also verify that the controller has been programmed to use the correct scoreboard type and data format as instructed in "[PROGRAMMING THE SYSTEM SETTINGS](#)" ON PAGE 151.

Sport-specific settings for volleyball

When you select volleyball, the MP-70/50 offers the sport-specific settings discussed below. When you adjust these settings, the MP-70/50 stores your selections in permanent memory. Your settings become active each time you select volleyball in the future.

- The sequence shown on the following pages presents you with all of the options you could encounter while programming sports-specific settings. However, these options presented to you may vary, depending upon the type of your control (MP-70 or MP-50), the version number of the firmware in your control, the two-digit board type that you've selected, or your scoreboard model. Hence, not all of the options outlined in this chapter may appear on your control.
- As you run through the following programming sequence, and you find the need to back up to a previous programming option earlier in the sequence, you can back up by selecting **SHIFT+8**.
- You may skip a prompt by pressing the **NEXT** key. This will advance you to the next prompt, but will save the existing settings of your current prompt without making any changes. However, Fair-Play advises that you respond YES or NO to all prompts, so that you have made all of the appropriate selections for your sports event.

- You may exit the programming sequence at any time by pressing the **ESC** key. This will take you to the Quit prompt.

Countdown clock

Press **YES** if you want the clock to count down or **NO** if you want the clock to count up.

```
- CHANGE SPORT -  
COUNT DN. CLK? Y/N
```

Tenths of seconds clock

If you want the clock to display tenths of seconds in the last minute of play, press **YES**. This setting is unavailable if the clock is counting up.

```
- CHANGE SPORT -  
1/10SEC CLK? Y/N
```

*Note: If you have a four-digit game clock (MM:SS), and you desire a 1/10th seconds display in the last minutes of a period, you must respond **YES** to both the 1/10th SEC CLK and the JUMPING CLK questions. Otherwise, the horn will appear to sound one second late.*

Jumping clock

This setting is helpful when your scoreboard does not have a fifth digit for tenths of seconds. If you choose this option, the digits representing seconds move to the left of the colon in the last minute of play, and tenths of seconds appear to the right of the colon. This setting is available only when you have selected the tenths of seconds clock above.

```
- CHANGE SPORT -  
JUMPING CLK? Y/N
```

Auto horn

If you press **YES** to select auto horn, this mode is active each time you select soccer as the sport. You can still use the **AUTO HORN** key to turn this feature on and off as instructed on page 11.

```
- CHANGE SPORT -  
AUTO HORN? Y/N
```

Timeout to scoreboard

If you want the timeout timer to appear on the scoreboard, press **YES**. If you press **NO**, the timer appears only on the MP-70/50's LCD display.

```
- CHANGE SPORT -  
T.O. TO SCBD? Y/N
```

Clock set to

On the numeric keypad, enter the duration of the game period in minutes and then press **ENTER**.

```
- CHANGE SPORT -  
CLOCK SET TO? 00
```

Break set to

On the numeric keypad, enter the duration of the break period (half time) in minutes and then press **ENTER**.

```
- CHANGE SPORT -  
BREAK SET TO? 00
```

Overtime set to

On the numeric keypad, enter the duration of the overtime period in minutes and then press **ENTER**.

```
- CHANGE SPORT -  
O.T. SET TO? 00
```

Timeout timer set to

On the numeric keypad, enter the number of seconds per timeout and then press **ENTER**.

```
- CHANGE SPORT -  
T.O. TIMER TO? 00
```

Number of timeouts left

Enter the number of timeouts allowed, either per game or per half. When you press **SHIFT+NEW GAME**, this value resets automatically. If you are tracking timeouts by half, you must manually reset the number of timeouts left at half time.

```
- CHANGE SPORT -  
# OF TOLS, 1 TO 9?
```

Operating the control in a volleyball game

Before continuing with this chapter, be sure the letters **VB** appear in the upper-left corner of the LCD display. This indicates that volleyball is the sport currently selected. If you see a different code, select volleyball, as instructed at ("[SELECTING A SPORT](#)" ON PAGE 175). You may want to adjust the sport-specific settings for volleyball as instructed earlier in this chapter.

You should also be familiar with the information in the chapter titled "[COMMON FUNCTIONS](#)" ON PAGE 13), which discusses several functions of the MP-70/50 that are important to its operation in a volleyball game, such as operating the clock and updating the score.

Controlling the service indicators

Press the **NEXT POSS** key to alternate between the home and guest service indicators. To blank both service indicators, press **NEXT POSS**. Then press **SHIFT + BLANK**.

Displaying games won

Follow these steps to enter or update the number of games won:

1. Press one of the **GAMES WON** keys (**HOME FOULS** or **VISITOR FOULS**).
2. Press one of the following keys to adjust the number by the increment indicated: **+1**, **+2**, **+3** or **-1**.

or

1. Press one of the **GAMES WON** keys (**HOME FOULS** or **VISITOR FOULS**).
2. On the numeric keypad, enter the new number and then press **ENTER**.

Displaying the game number

Follow these steps to enter or update the game number:

1. Press **WEIGHT GAME**.
2. Press one of the following keys to adjust the game number by the increment indicated: **+1**, **+2**, **+3** or **-1**.

or

1. Press **WEIGHT GAME**.
2. On the numeric keypad, enter the new game number and then press **ENTER**.

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Track

If track is not the sport currently selected on the MP-70/50, see [“SELECTING AND CHANGING SPORTS” ON PAGE 175](#).

You should also verify that the controller has been programmed to the correct scoreboard type and data format as instructed in [“PROGRAMMING THE SYSTEM SETTINGS” ON PAGE 151](#).

Sport-specific settings for track

When you select track the MP-70/50 offer the sport-specific settings discussed below. When you adjust these settings, the MP-70/50 stores your selections in permanent memory. Your settings become active each time you select track in the future.

- The sequence shown on the following pages presents you with all of the options you could encounter while programming sports-specific settings. However, these options presented to you may vary, depending upon the type of your control (MP-70 or MP-50), the version number of the firmware in your control, the two-digit board type that you’ve selected, or your scoreboard model. Hence, not all of the options outlined in this chapter may appear on your control.
- As you run through the following programming sequence, and you find the need to back up to a previous programming option earlier in the sequence, you can back up by selecting **SHIFT+8**.
- You may skip a prompt by pressing the **NEXT** key. This will advance you to the next prompt, but will save the existing settings of your current prompt without making any changes. However, Fair-Play advises that you respond YES or NO to all prompts, so that you have made all of the appropriate selections for your sports event.
- You may exit the programming sequence at any time by pressing the **ESC** key. This will take you to the Quit prompt.

Minutes tens to connector 2

This setting is exclusive to the to the FB-8218TK scoreboard, which support football soccer and track. It is available only when you have programmed the MP-70/50 for us with the FB-8218TK (scoreboard type number 26). See [“PROGRAMMING THE SYSTEM SETTINGS” ON PAGE 151](#) for more information on scoreboard types.

```
- CHANGE SPORT -  
MT TO CONN2? Y/N
```

When you are using the FB-8218TK scoreboard for football or soccer press **YES** at this prompt. Press **NO** only when you are suing the FB-8218TK scoreboard for a track and field event. When you press **NO**, the MP-70/50 transmits tenths of seconds data to connector 2 of the scoreboard processor pack. You must also redirect the wiring at the scoreboard to complete this change. If you are using a scoreboard other than model FB-8218TK, always press **YES** at this prompt.

Omega Powertime

Omega Powertime is a hand-held, multi-functional timer used for track and field events. It is an add-on feature that can be purchased from your Fair-Play dealer, and is available for scoreboard types 15, 23, 24, and 37.

Select **YES** if you wish for your MP-70 control to receive data from the Omega Powertime product.

```
- CHANGE SPORT -  
OMEGA POWERT? Y/N
```



Note: For more information on Omega Power Time, please request the Power Time Manual. Ask for Trans-Lux Fair-Play part number 98-0132-02.



Note: If you have selected the Omega PowerTime product, you cannot select FinishLynx, which is the next prompt you will see.

FinishLynx

FinishLynx is a versatile digital photofinish and track timing system that can be connected to an MP-70 control, and is available for scoreboard types 15, 23, 24 and 37.



Note: For additional information on FinishLynx, contact your Fair-Play dealer.

Select **YES** if you want your MP-70 control to receive data from the FinishLynx product.

```
-CHANGE SPORT -  
FINISHLYNX? Y/N
```



Note: If you have selected Finish Lynx, you cannot select Omega Power Time.

Operating in Manual Mode

Before continuing with this chapter, be sure the letters TK appear in the upper-left corner of the LCD display. This indicates that track is the sport currently selected. If you see a different code, select track as instructed at ["SELECTING AND CHANGING SPORTS" ON PAGE 175.](#)

You should also be familiar with the information in “[COMMON FUNCTIONS](#)” ON [PAGE 13](#), which discusses several functions of the MP-70/50 that are important to its operation in a track and field event, such as operating the clock updating score.

Displaying the event number



TK 0:00.00†
EVENT 4

Follow these steps to enter or update the event number:

1. Press **BALL ON EVENT**.
2. On the numeric keypad, enter the event number and then press **ENTER**. The number of digits allowed can vary with scoreboard model. Most allow two digits, some allow three digits.

Displaying the heat number



TK 0:00.00†
EVENT 4

Follow these steps to enter or update the heat number:

1. Press **QTR HEAT**.



TK 0:00.00†
HEAT 7



Note: Some scoreboard models do not display HEAT, only EVENT.

2. On the numeric keypad, enter the heat number and then press **ENTER**.

Or

1. Press one of the + or - keys to update the number.

Entering lane and place information

Follow these steps to enter lane and place information for up to eight contestants:

TK	↳	0:00.00†
L2	P1	03:59.30

1. Press **DOWN PLACE**.
2. On the numeric keypad, type one digit for lane, one digit for place, and the contestant's time. Then press **ENTER**.
3. Repeat steps one and two to enter information for additional contestants. A maximum of eight contestants are allowed.

Displaying event results

Press the **DISPLAY CLOCK/RESULTS** key to alternate between the event clock and event results on the scoreboard.

You must enter lane and place information as instructed above before you can display event results.

When displaying event results, press the **LANE/PLACE ORDER** key to alternate between lane and place information on the scoreboard. Press the up and down arrow keys to navigate between the lane/place entries for the various contestants. Use the two arrow keys to displays the contestant results on the scoreboard.

FinishLynx installation and setup

If you have selected the FinishLynx option, as explained in “[FINISHLYNX](#)” ON [PAGE 93](#), your running time and results displayed on the scoreboard are sent to the MP-70 control from the FinishLynx computer over a serial cable supplied by Trans-Lux/Fair-Play.

FinishLynx Installation

The FinishLynx product is connected to the MP-70 control via a null modem cable that attaches to the RS-232 port on the back of the MP-70.



Note: Please refer to the FinishLynx manual at www.finishlynx.com for other questions concerning connections and hardware.

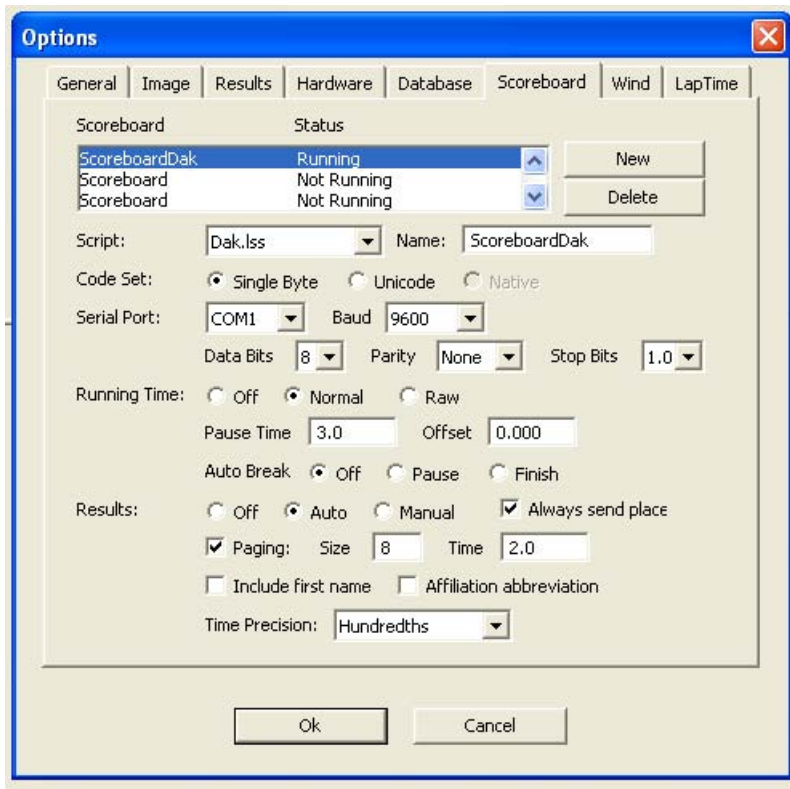
FinishLynx Setup



Note: The following procedure is not a complete explanation of how to install and operated FinishLynx software. For more information, please consult the FinishLynx manual at www.finishlynx.com.

Open the FinishLynx software on your PC, and set up FinishLynx by using the following procedure.

1. The **Options** box appears, as shown below. Choose the **Scoreboards** tab, located at the top of the **Options** box.



2. Choose the following options settings:
 - In the **Script** box, choose **Dak.lss**.

- In the **Name** box, choose the name of your scoreboard configuration.
 - In the **Code Set** box, choose **Single Byte**.
 - In the **Serial Port** box, choose **COM1**.
 - In the **Baud** box, choose **9600**.
 - In the **Pause Time** box, choose the number of seconds that you wish to leave the split time on the scoreboard before it returns to displaying the running time.
 - Check the **Always send place** checkbox.
 - Check the **Paging** checkbox.
 - In the **Size** box, choose **8**.
 - In the **Time** box, choose the pause time between the contestants.
 - In the **Time Precision** box, choose **Hundredths**.
3. Click **OK**.
 4. Restart FinishLynx to finalize the configuration.



Baseball

If baseball is not the sport currently selected on the MP-70/50, or if you want to change the controller's settings for baseball, see [“SELECTING AND CHANGING SPORTS” ON PAGE 175](#).

You should also verify that the controller has been programmed to use the correct scoreboard type and data format as instructed in [“PROGRAMMING THE SYSTEM SETTINGS” ON PAGE 151](#).

- The MP-70/50 offers two keypad inserts for baseball, labeled “Baseball” and “Baseball Multi-Purpose.” Use the first if you will be tracking the score by inning, as with the BA-7136 scoreboard. Use the second with more basic baseball scoreboards, such as the BA-7100 or BA-7109, or with multi-purpose scoreboards such as the MP-7114. Be sure the insert you are using is appropriate for the scoreboard type you have selected. See [“PROGRAMMING THE SYSTEM SETTINGS” ON PAGE 151](#) for more information on scoreboard types.
- The sequence shown on the following pages presents you with all of the options you could encounter while programming sports-specific settings. However, these options presented to you may vary, depending upon the type of your control (MP-70 or MP-50), the version number of the firmware in your control, the two-digit board type that you've selected, or your scoreboard model. Hence, not all of the options outlined in this chapter may appear on your control.
- As you run through the following programming sequence, and you find the need to back up to a previous programming option earlier in the sequence, you can back up by selecting **SHIFT+8**.
- You may skip a prompt by pressing the **NEXT** key. This will advance you to the next prompt, but will save the existing settings of your current prompt without making any changes. However, Fair-Play advises that you respond **YES** or **NO** to all prompts, so that you have made all of the appropriate selections for your sports event.
- You may exit the programming sequence at any time by pressing the **ESC** key. This will take you to the Quit prompt.

Sport-specific settings for baseball

When you select baseball, the MP-70/50 offers the sport-specific settings discussed below. When you adjust these settings the MP-70/50 stores your selections in permanent memory. Your settings become active each time you select baseball in the future.

Single-press balls, strikes, outs

```
- CHANGE SPORT -  
1 PRESS BSO? Y/N
```

This feature allows you to increase the ball, strike and out values with a single press of the corresponding key. If you press **NO** at the **1 PRESS BSO** prompt, you must press **+1** or **-1** after pressing **BALL**, **STRIKE** or **OUT**.

Automatic score totaling

```
- CHANGE SPORT -  
AUTO SC.TOTAL? Y
```

If board types 34 or 35 were selected in the SYSTEM SETTINGS level of programming, the prompt above will appear. Press **YES** if you want the total runs to automatically increase when the score by inning increases or **NO** if you prefer to manually track the total runs.



Note: Some baseball scoreboards do not offer full game clock functionality. Your MP-70/50 will only give you prompts for the functions your scoreboard type offers. This qualification applies to the following six items.

Countdown clock

```
- CHANGE SPORT -  
COUNT DN. CLK? Y/N
```

Press **YES** if you want the clock to count down or **NO** if you want the clock to count up.

Tenths of seconds clock

```
- CHANGE SPORT -  
1/10SEC CLK? Y/N
```

If you want the clock to display tenths of seconds in the last minute of play, press **YES**. This setting is unavailable if the clock is counting up.



*Note: If you have a four-digit game clock (MM:SS), and you desire a 1/10th seconds display in the last minutes of a period, you must respond **YES** to both the 1/10th SEC CLK and the JUMPING CLK questions. Otherwise, the horn will appear to sound one second late.*

Jumping clock

```
- CHANGE SPORT -  
JUMPING CLK? Y/N
```

This setting is helpful when your scoreboard does not have a fifth digit for tenths of seconds. If you choose this option, the digits representing seconds move to the left of the colon in the last minute of play, and tenths of seconds appear to the right of the colon. This setting is available only when you have selected the tenths of seconds clock above.

Auto horn

```
- CHANGE SPORT -  
AUTO HORN? Y/N
```

If you press **YES** to select auto horn, this mode is active each time you select baseball as the sport. You can still use the **AUTO HORN** key to turn this feature on and off as instructed at [“SOUNDING THE HORN” ON PAGE 17](#).

Clock set to (hours or minutes/seconds)

To time a game or event for a period of hours, respond **YES** to the HOUR CLOCK? Y/N prompt, as shown below.

```
- CHANGE SPORT -  
HOUR CLOCK? Y/N
```

If you respond **YES**, another prompt will appear, as shown below.

```
-CHANGE SPORT-  
CLK SET TO?_.:_..
```

Enter the duration of the time period in hours and minutes and then press **ENTER**. You may set the time up to nine hours and 99 minutes in this mode.

```
- CHANGE SPORT -  
CLOCK SET TO? 00
```

If you respond **NO** to the HOUR CLOCK prompt, the prompt above will appear. Enter the duration of the game period in minutes and then press **ENTER**. You may set the time up to 99 minutes.

Operating the control in a baseball game

Before continuing with this chapter, be sure the letters BA appear in the upper-left corner of the LCD display. This indicates that baseball is the sport currently selected. If you see a different code, select baseball as instructed at [“SELECTING AND CHANGING SPORTS” ON PAGE 175](#).

You should also be familiar with the information in [“PROGRAMMING THE SYSTEM SETTINGS” ON PAGE 151](#), which discusses several functions of the MP-70/50 that are important to its operation in a baseball game.

Updating the inning number

Follow these steps to update the inning number

1. Press **INNING**.
2. Press **+1** to advance to the next inning.

Or

1. Press **INNING**.
2. On the numeric keypad, enter the new inning number and then press **ENTER**.

Alternating display of innings/game clock

Some baseball scoreboards allow you to toggle between displaying the innings and the game clock in the same digit window. Simply pressing the **INNING** key twice does this.

Tracking the score by inning

If the MP-70/50 is programmed for use with the BA-7127 or BA-7136 (scoreboard type number 34) you can track score by inning through 20 innings of game play. In extra innings situations when the inning number increases from 10 to 11, the home and visitor score by inning display windows of the scoreboard will be cleared. Eleventh-inning scores will then be displayed in the first-inning position, twelfth-inning scores in position 2, and so on, through the twentieth inning. Score information for the first 10 innings is retained in memory and can be retrieved for display at any time by entering an inning number from one to 10. (See [“UPDATING THE INNING NUMBER” ON PAGE 103](#)) The selected inning number appears on the top line, right-hand side of the LCD window unless the hit or error indicator is on.

The BA-7120 scoreboard (type number 35) works similarly but has only nine score-by-inning windows instead of 10. Therefore the tenth-inning scores are displayed in the first-inning position, eleventh-inning scores in position 2, and so on, through the eighteenth inning.

If your scoreboard model allows you to display the score by inning, follow the steps below to enter or update the score. If you need to correct a scoring mistake in a previous inning, follow the same steps.

1. Select the inning as instructed above.
2. Press **HOME SCORE BY INN** or **VISITOR SCORE BY INN**.
3. Press one of the following keys to adjust the score by the increment indicated: **+1**, **+2**, **+3** or **-1**.

Or

1. Select the inning as instructed above.
2. Press **HOME SCORE BY INN** or **VISITOR SCORE BY INN**.
3. On the numeric keypad, enter the new score and then press **ENTER**.

If the automatic runs totaling feature is active, up to 19 runs per inning can be displayed. If more than nine runs come across in any inning, the display window for that particular inning will flash the number “1” for one second out of every 11 seconds for the remainder of the game to indicate more than 10 runs. For example, if there were 13 runs in the fifth inning, that window would display “3” for 10 seconds, “1” for one second, “3” for 10 seconds and so on.

Balls, strikes, and outs

The 1 PRESS BSO feature (see [“SINGLE-PRESS BALLS, STRIKES, OUTS” ON PAGE 100](#)) allows you to increase the ball, strike and out values with a single press of the corresponding key. If this feature is not active, press **+1** or **-1** after pressing **BALL**, **STRIKE** or **OUT**.

Indicating the team and player at bat

BA	B0	S0	00
AT	BAT	-	HOME

Press **TOP BOTTOM OF INNING** to alternate between the home team and visiting team. To blank both indicators, press **TOP BOTTOM OF INNING** and then press **SHIFT+BLANK**.

If you are using a multi-purpose scoreboard such as the MP-7114, press **HOME SPOT** or **VISITOR SPOT** to control the possession indicators.

Follow these steps to display the batter's player number if your scoreboard type support this option:

1. Press **AT-BAT**.
2. On the numeric keypad, enter the player number and then press **ENTER**.

Clearing ball, strike and at bat

BA	B0	S0	00
CLR-	BALL,	STRIKE	

Press **CLR BALL, STRIKE, AT BAT** to clear the ball, strike, out and at bat fields at once.

Updating hits

Press **HIT** to turn the hit indicator on and off.

BA	B0	S0	00	
U.	HITS			1

If your scoreboard type allows you to tally hits for each team, follow these steps.

1. Press **HOME HITS** or **VISITOR HITS**.
2. Press one of the following keys to adjust the hit count by the increment indicated: **+1**, **+2**, **+3** or **-1**.

Or

1. Press **HOME HITS** or **VISITOR HITS**.
2. On the numeric keypad, enter the new hit count and then press **ENTER**.

Updating runs

If your scoreboard type allows you to tally runs for each team, follow these steps:

1. Press **HOME RUNS TOTAL** or **VISITOR RUNS TOTAL**.
2. Press one of the following keys to adjust the hit count by the increment indicated **+1**, **+2**, **+3** or **-1**.

Or

1. Press **HOME RUNS TOTAL** or **VISITOR RUNS TOTAL**.
2. On the numeric keypad, enter the new number of runs and then press **ENTER**.

Tracking errors

```
BA  B0  S0  00  E  ?
POSITION NO.
```

Press **ENTER** to turn the error indicator on or off. With some scoreboard types, the prompt at left appears when you turn the error indicator on. Enter the position number of the player committing the error; then press **ENTER**.

If your scoreboard type allows you tally errors for each team follow these steps:

1. Press **HOME ERRORS** or **VISITOR ERRORS**.
2. Press one of the following keys to adjust the error count by the increment indicated **+1**, **+2**, **+3** or **-1**.

Or

1. Press **HOME ERRORS** or **VISITOR ERRORS**.
2. On the numeric keypad, enter the new error count and then press **ENTER**.

Reading baseball scoreboard clocks

On baseball scoreboards there are two types of clock available.

1. Standard four-digit clock is programmable for display of either minutes/seconds or hours/minutes. Cadence of seconds or minutes indicates which mode this clock is in.
2. Two-digit "jump" clock with colons on either sides of digits.
Right-colon lit: Minutes are displayed
Left-colon lit: Seconds are displayed

In HOUR CLOCK mode only:

Both colons lit: Hours are displayed until last hour when right colon is lit to indicate minutes.



Note: Some two-digit models are capable of displaying the inning number on the clock. If this feature is activated, neither colon will be lit while the inning number is displayed.

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Lacrosse (board type 21)

Lacrosse is a selection only for scoreboard type 21. Hence, your scoreboard must be set for scoreboard type 21 in order for you to see the prompt for Lacrosse when you are in Program Mode. (If your scoreboard is for Lacrosse, it will be the next question after responding NO to the SOCCER Y/N prompt).

If lacrosse is not the sport currently selected on the MP-70/50, or if you want to change the controller's settings for lacrosse, see ["SELECTING AND CHANGING SPORTS" ON PAGE 175](#).

You should also verify that the controller has been programmed to use the correct scoreboard type and data format as instructed in ["PROGRAMMING THE SYSTEM SETTINGS" ON PAGE 151](#).

Sport-specific settings for lacrosse

When you select lacrosse, the MP-70/50 offers the sport-specific settings discussed below. When you adjust these settings the MP-70/50 stores your selections in permanent memory. Your settings become active each time you select lacrosse in the future.

- The sequence shown on the following pages presents you with all of the options you could encounter while programming sports-specific settings. However, these options presented to you may vary, depending upon the type of your control (MP-70 or MP-50), the version number of the firmware in your control, the two-digit board type that you've selected, or your scoreboard model. Hence, not all of the options outlined in this chapter may appear on your control.
- As you run through the following programming sequence, and you find the need to back up to a previous programming option earlier in the sequence, you can back up by selecting **SHIFT+8**.

- You may skip a prompt by pressing the **NEXT** key. This will advance you to the next prompt, but will save the existing settings of your current prompt without making any changes. However, Fair-Play advises that you respond YES or NO to all prompts, so that you have made all of the appropriate selections for your sports event.
- You may exit the programming sequence at any time by pressing the **ESC** key. This will take you to the Quit prompt.

Countdown clock

```
- CHANGE SPORT -  
COUNT DN. CLK? Y/N
```

Press **YES** if you want the clock to count down or **NO** if you want the clock to count up.

Tenths of seconds clock

```
- CHANGE SPORT -  
1/10SEC CLK? Y/N
```

If you want the clock to display tenths of seconds in the last minute of play, press **YES**. This setting is unavailable if the clock is counting up.



*Note: If you have a four-digit game clock (MM:SS), and you desire a 1/10th seconds display in the last minutes of a period, you must respond **YES** to both the 1/10th SEC CLK and the JUMPING CLK questions. Otherwise, the horn will appear to sound one second late.*

Jumping clock

```
- CHANGE SPORT -  
JUMPING CLK? Y/N
```

This setting is helpful when your scoreboard does not have a fifth digit for tenths of seconds. If you choose this option, the digits representing seconds move to the left of the colon in the last minute of play, and tenths of seconds appear to the right of the colon. This setting is available only when you have selected the tenths of seconds clock above.

Auto horn

```
- CHANGE SPORT -  
AUTO HORN? Y/N
```

If you press **YES** to select auto horn, this mode is active each time you select lacrosse as the sport. You can still use the **AUTO HORN** key to turn this feature on and off as instructed on ["SOUNDING THE HORN" ON PAGE 17](#).

Timeout to scoreboard

```
- CHANGE SPORT -  
T.O. TO SCBD? Y/N
```

If you want the timeout timer to appear on the scoreboard, press **YES**. If you press **NO**, the timer appears only on the MP-70/50'S LCD display.

Clock set to

```
- CHANGE SPORT -  
CLOCK SET TO? 00
```

On the numeric keypad, enter the duration of the game period in minutes and then press **ENTER**.

Break set to



- CHANGE SPORT -
BREAK SET TO? 00

On the numeric keypad, enter the duration of the break period (half time) in minutes and then press **ENTER**.

Overtime set to



- CHANGE SPORT -
O.T. SET TO? 00

On the numeric keypad, enter the duration of the overtime period in minutes and then press **ENTER**.

Timeout timer set to



- CHANGE SPORT -
T.O. TIMER TO? 00

On the numeric keypad, enter the number of seconds per timeout and then press **ENTER**.

Number of timeouts left



- CHANGE SPORT -
OF TOLS, 1T09?

Enter the number of timeouts allowed either per game or per half. When you press **SHIFT+NEW GAME**, this value resets automatically. If you are tracking timeouts by half, you must manually reset the number of timeouts left at the half time.

Operating the control in a lacrosse game

Before continuing with this chapter, be sure the letters LC appear in the upper-left corner of the LCD display. This indicates that lacrosse is the sport currently selected. If you see a different code, select lacrosse as instructed at [“SELECTING AND CHANGING SPORTS” ON PAGE 175](#). You may want to adjust the sport-specific settings for lacrosse as instructed earlier in this chapter.

You should also be familiar with the information in [“COMMON FUNCTIONS” ON PAGE 13](#), which discusses several functions of the MP-70/50 that are important to its operation in a lacrosse game, such as operating the clock and updating the score.

Tracking penalties in a lacrosse game

Follow these steps to start a penalty timer:



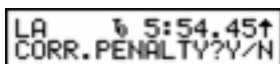
The image shows a rectangular LCD display with a black border. The top line displays 'LA' on the left and '0:17.16+' on the right. The bottom line displays 'H. PENALTY'.

1. Press **HOME PENALTY** or **VISITOR PENALTY**.
2. Press **+1**, **+2** or **+3** to assign a penalty time. These keys will assign penalties according to the following pre-set times:
 - **+1** = 30 seconds.
 - **+2** = 1 minute.
 - **+3** = 2 minutes.
 - **-1** = 3 minutes.If a player receives two back-to-back penalties, you can press another of the **+** keys to add more time.
3. At the **ENTER PLY. NO.** prompt, enter the player number on the numeric keypad and then press **ENTER**.

In Lacrosse, there are three penalty clocks per team, and the MP-70/50 can store up to five penalties per team in memory. This means only the first three penalties in memory for each team will count down. When there are four or more penalties in memory at once, the fourth penalty begins to count down when one of the first three expires.

Penalty timers count down only when the game clock is running during a regular game period; they do not count down during break periods.

If you correct the game clock during a game period when penalty timers are running, the prompt below appears. Press **SHIFT+YES** if you want to correct the penalties that are actually counting.



LA 5:54.45↑
CORR. PENALTY?Y/N



Note: The MP-70/50 can track a maximum of six counting penalties (three counting penalties for each team), at any given time. However, you will only be presented with the penalties that are currently being counted.

Cancelling individual penalties

Follow these steps to correct or cancel an individual penalty.

1. Press **HOME PENALTY** or **VISITOR PENALTY**.
2. Enter the player number and then press **ENTER**.
The current penalty time in memory appears on the LCD display.
3. Press **ENTER** to cancel penalty. To correct the penalty time, enter the new time on the numeric key pad and then press **ENTER**.

Edit or clear penalties

1. Press **HOME PENALTY** or **VISITOR PENALTY**.
2. Press the **CLR** key to clear the penalty.
3. The control prompts you for a player number. Enter the player number and press **ENTER**. The control then displays the time of penalty in memory.

OR

Use the numeric keypad to key in a different amount of time.
Press **ENTER**.

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Pace Clock

About the Pace Clock

The Pace Clock is a unit that hangs on a wall, which runners can use to pace laps around a track. The Pace Clock can be operated with an MP-70 control. (The model numbers of the Pace Clock are PC-1440-4, and PC-1450-4)

The Pace Clock is comprised of a six-digit clock which displays minutes, seconds, fractions of a second; and two direction arrows.

Programming the Pace Clock

To program the Pace Clock, follow the instructions outlined below:

Choose scoreboard type

1. First, you must choose the correct scoreboard type, which in this case is Board Type 23. Enter the **Systems Settings** mode by pressing the **0** button on your control and turning it on. (For more information on how to select the correct scoreboard type, see ["SCOREBOARD TYPE" ON PAGE 153](#)).
2. At the **SCBD TYPE #?** prompt, select Board Type 23.



Note: For more information on scoreboard types, see ["BOARDS SUPPORTED" ON PAGE 161](#).

3. Respond **YES** to the prompt shown below to exit SYSTEM SETTINGS.

```
SYSTEM SETTINGS
QUIT? Y/N
```

Change Sport to Football

4. Next, you will need to select the sport of Football, because the Pace Clock has been programmed to run under the Football programming sequence on your control. To select Football, you will need to enter the **Change Sport** mode on your control. Turn off your control, and turn it back on while pressing down on the **ENTER** key.



*Note: Your control has saved the Scoreboard Type (23) in the **Systems Settings** mode, so your previous selection will not be lost when you turn off your control.*

5. In the **Change Sport** mode, select Football. (For more information on selecting sports, see [“SELECTING A SPORT” ON PAGE 175](#)).

Football programming sequence

6. Upon selecting football, you will be prompted with a series of questions that are mostly related to football operations. So we have provided a suggested list of query responses specifically for your Pace Clock operations. Follow the Football programming sequence, as outlined on the following pages.

Update yardage

```
- CHANGE SPORT -
UPDATE YARD? Y/N
```

Respond **NO** to this prompt.

Countdown clock

```
- CHANGE SPORT -  
COUNT DN. CLK? Y/N
```

Respond **NO** at this prompt.

Auto horn

```
- CHANGE SPORT -  
AUTO HORN? Y/N
```

Respond **NO** at this prompt.

Timeout to scoreboard

```
- CHANGE SPORT -  
T.O. TO SCBD? Y/N
```

Respond **NO** at this prompt.

Timer set to

```
- CHANGE SPORT -  
TIMER SET TO? 00
```

Press **00**, then **ENTER**.

Clock set to

```
- CHANGE SPORT -  
CLOCK SET TO? 00
```

Enter **00** on your keypad, then press **ENTER**. (This assumes that you want your Pace Clock to count up).

Break set to

```
- CHANGE SPORT -  
BREAK SET TO? 00
```

Press **00**, then press **ENTER**.

Overtime set to

```
- CHANGE SPORT -  
O.T. SET TO? 00
```

Press **00**, then press **ENTER**.

Timeout timer set to

```
- CHANGE SPORT -  
T.O. TIMER TO? 00
```

Press **00**, then press **ENTER**.

Number of timeouts left

```
- CHANGE SPORT -  
# OF TOLS, 1T09?
```

Press **1**, then **ENTER**.

Changing direction arrows

Set the direction of the arrow on your Pace Clock by pressing the **Poss** (Possession) key on your keypad.

Starting and Stopping the Pace Clock

Use the **Time In/Time Out** switch to start and stop the Pace Clock.

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Team Names

Team name displays (MP-70 only)

If your scoreboard is equipped with SpectraLens or LED technology electronic team names displays, the MP-70 control can transmit team name data to them through either wired or wireless transmission.



To enter the home team name, follow the steps below.

1. While pressing and holding the **SHIFT** key, press **HOME SCORE**. The LCD will display the prompt shown at left. The top line of the LCD holds the first 16 letters of the alphabet, with a highlighting cursor centered under the letter "I." The bottom line prompts you to enter the home or visitor team name.
2. Use the **4/YES** and **6/NO** keys of the numeric key pad to position the cursor under the letter you want to select. The **4/YES** key advances the cursor to the left, and the **6/NO** key moves it to the right.

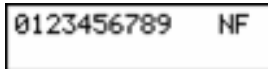


Note: The **UP** and **DOWN** arrow keys (**8** and **2** keys of the numeric keypad) serve the same purpose, **UP**= cursor direction right and **DOWN** = cursor direction left. Only the **4/YES** and **6/NO** keys are referenced in this portion of the manual text.

To scroll through the letters more easily, press and hold either key. After about a second the cursor will begin a rapid succession through the LCD top line characters. Lift your finger to stop the cursor at the desired letter.



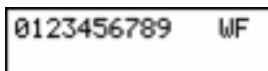
QRSTUUVWXYZ&., ' ? -
ENTER HOME T.N.



0123456789 NF

This quick scroll feature can also be used to alternate LCD screens, which contain the remaining letters of the alphabet, some punctuation, numbers, space and font indicator. To view the two additional screens shown at left, press and hold either the **4** or **6** key and wait for the cursor to move beyond either end of the top line of the LCD. As the cursor moves off the end of each screen the top line changes to the next screen in sequence.

The font indicator, which appears in the third screen's upper right hand corner, displays one of two possible font settings: either NF for narrow font or WF for wide font. To change from one font style to the other, position the cursor under either letter of the font indicator then press the **NEXT** key (the **5** key of the numeric keypad). The result is illustrated below.



0123456789 WF

3. To select the first letter of the team name, use the **4/YES** or **6/NO** keys to position the cursor under the required letter. Then press the **NEXT** key. The selected letter will be displayed on the bottom line of the LCD. Continue this process until the remaining letters of the team name have been chosen. The **CLR** key of the numeric keypad provides backspace capability. Press it to delete any letter or letters selected in error. Various stages of team name construction are illustrated below.

```

ABCDEFGHIJKLMNQP
H. TN=B

```

```

ABCDEFGHIJKLMNQP
H. TN=BRON

```

```

QRSTUVWXYZ&.,'?"-
H. TN=BRONCOS

```

4. Once all the required letters have been chosen, press the **ENTER** key to conclude the process and transmit the team name data to the scoreboard display. A screen similar to the one shown below will appear on the LCD.

```

FB  15:00.  ↓
H. TN=BRONCOS

```

5. To enter visitor team name, repeat steps one through four only select **VISITOR SCORE** instead of **HOME SCORE** while holding down on the **SHIFT** key.
6. Once the **HOME TEAM** name has been entered, it will remain set in the controller memory even when power is turned off. If you need to change the **HOME TEAM** name, repeat steps one through four. The **VISITOR TEAM** name is automatically erased when the control is turned off and will need to be re-entered every time the control is used.

7. Though the control allows entry of up to 11 characters per team name, a 32-pixel width team name window will only display about six narrow font (NF) characters, and a 48-pixel width team name window will only display about nine NF characters. If some of the characters are cut off or not displayed on the scoreboard team name window, repeat the entry procedure and try one of the following:
 - Select the narrow font (NF) as explained in Step 2.
 - Eliminate spaces if they were previously used.
 - Abbreviate the team name.

8. Verify the correct team name appearance on the scoreboard display.



Note: You should also verify that the controller has been programmed to use the correct scoreboard type and data format as instructed in [“PROGRAMMING THE SYSTEM SETTINGS” ON PAGE 151](#).

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Wireless Option

The wireless option available with the MP-70/50 allows you to control most indoor scoreboards and shot clocks, or most outdoor scoreboards and field timers from any location in the gym or on the field - without the need for wiring and cable conduit.

The wireless MP-70/50 controls are operated in a similar fashion to the MP-70/50 controls that have a standard cable connection. This chapter describes how the wireless control can be set up and its features programmed into the control, in the event that you may need to do this. It also features tips on operating the wireless control effectively, as well as detailed instructions for how to set up and run the control during special circumstances.



Note: The MP-70/50 control has been factory tested with your display, and should be ready to plug and play.

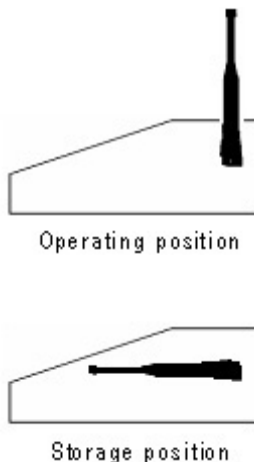
When equipped with the wireless option, the MP-70/50 can still operate the scoreboards using conventional control wire. It can also simultaneously operate some devices via the wireless link, and others via control cables. However, if you are using hand switches, you should know that they require a cable connection to the control, even when used with a wireless model.



Note: Hand switches cannot be used with the MP-50 control.

Setting up the wireless connection

The wireless MP-70/50 and receiving devices must be located within range of one another. The wireless system offers an approximate range of 300 feet indoors and 1,200 feet outdoors.



For optimal transmission:

1. Rotate the MP-70/50 antenna to the full upright position when using the controller. (Refer to the figures above.) Placing the antenna in any other position reduces the transmission range.

Warning: Never apply power to a wireless MP-70/50 control that has its antenna removed. This will immediately destroy the output amplifier on the control's transmitter card, and will void any wireless MP-70/50 warranty. If the antenna has been damaged, send the control to an authorized service center for repair.

2. Locate the MP-70/50 transmitter within an 180-degree arc in front of the scoreboard to prevent the scoreboard from blocking the signal.

The wireless signal is largely immune to conflicting radio frequency signals from cordless telephones, cellular telephones, microwave ovens and other radio frequency devices. For more information on interference, see [“RADIO FREQUENCY INTERFERENCE” ON PAGE 148](#)

When the scoreboard is properly receiving data from the wireless MP-70/50, the scoring data (time, score, fouls etc.) appears on the scoreboard. If the scoreboard or timer loses the signal, or if the signal is intermittent, the scoreboard or timer will hold its last transmission for up to five seconds. After five seconds, if the control still cannot detect a signal, it will display a two-digit number that represents the radio channel that the scoreboard radio receiver is set to.



Note: If a scoreboard takes longer than 45 seconds to respond to a wireless transmission, it could indicate an improper equipment setup or component malfunction.

The wireless MP-70/50 has been programmed to use the correct scoreboard type and data format as instructed in [“PROGRAMMING THE SYSTEM SETTINGS” ON PAGE 151](#).

Selecting transmission modes

Before operating the wireless MP-70/50, you must select a transmission mode. The wireless data link can operate in one of two modes:

- **SELECT CHANNEL mode (SEL)** - In SEL mode, you can operate more than one display with more than one control, simultaneously, without them interfering with one another.
- **ALL SCOREBOARDS mode (ALL)** - In ALL mode, you can synchronize multiple scoreboards to one control.

High and low power modes

The wireless data link can operate in either

- **HIGH POWER mode** - In HIGH POWER mode, your control broadcasts a signal to the display at its maximum available power output. Under normal circumstances, set your control to HIGH POWER mode.
- **LOW POWER TRANSMISSION mode** - Primarily used for system testing.

Viewing your settings

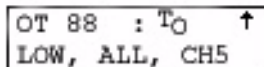
To view the current radio transmitter setting of your control, hold down the **SHIFT** key while pressing the **BAT/RF** key.

If your control is not battery operated, the first press will display the radio transmitter settings.



Note: If you have a battery-powered control, the first press of the BAT/RF key will display the percentage of power remaining in the battery on the bottom line of the LCD. Press the key a second time to display the radio transmitter settings.

When displaying the radio transmitter settings, the bottom line of the LCD will look something like this picture shown below:



```
OT 88 : T0 ↑  
LOW, ALL, CH5
```

- **LOW or HIGH:** LOW or HIGH POWER TRANSMISSION modes.
- **ALL or SEL:** ALL or SEL CHANNEL mode.
- **CH# (0-15):** Radio channel (SEL CHANNEL mode only).

Changing your settings

High power transmit

To change any or all of these three settings, hold down the **SHIFT** key and press the number **9** key. The top line of the LCD will display HIPOWER XMIT? Y/N.

- If you respond **YES**, the radio transmitter will send the radio signal at full power.
- If you respond **NO**, then the control transmit range will decrease (this is typically used for testing).



Note: If you want the ALL SCBDS feature to be disabled, a lockout jumper (Fair-Play part number C1452) is available for purchase and installation in indoor scoreboards. All outdoor scoreboards come with this jumper factory installed. If you want to activate the ALL SCBDS feature in your outdoor scoreboard, you will need to have this jumper removed. Consult your Trans-Lux/Fair-Play Help Desk for assistance.

All scoreboards

The prompt ALL SCBDS? Y/N will appear next. If you respond **YES**, the radio transmitter will switch to ALL SCOREBOARDS mode. If your response is **NO**, the transmitter will switch to SEL mode.

Select channel

The final prompt in this series will be SEL.CHANNEL_0. At this prompt, you need to select your channel. Enter a one or two-digit number for the desired channel. Press **ENTER**.

More information on selecting channels is included in the following section.

Selecting channels

In SEL mode, you must select the same channel on both the MP-70/50 and its receiving devices (scoreboards and timers).

Valid channel numbers are 0 to 15. Most of the MP-70/50 controls manufactured by Fair-Play are set up at the factory to use channel 7 to control outdoor scoreboards, and channel 3 to control indoor scoreboards. You may keep these selections, or change them, as you prefer.

On the receiving device, the CHANNEL SELECTOR SWITCH is a 16-position rotary switch with a small arrow indicating its position. The image below shows this switch, which is located on the receiver card on your scoreboard. This switch is used to select the SEL mode radio channel. Channels 10 through 15 on M-70/50 correspond to the letters A through F on the **CHANNEL SWITCH**.

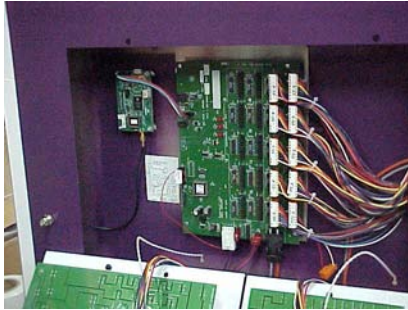


Note: Channels 0, 14, and 15 disable the radio transmitter on the MP-70/50 when the radio transmitter is in SEL mode. Likewise, the receiver located in a wireless scoreboard is disabled when the channel switch is set to 0, E or F.

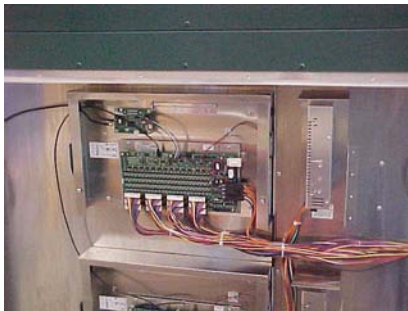
Receiver card location

The receiver card is located in either the processor mounting area or the radio frequency data converter box of scoreboards equipped with the wireless option. See the following pictures for further details.

Receiver card: for indoor displays

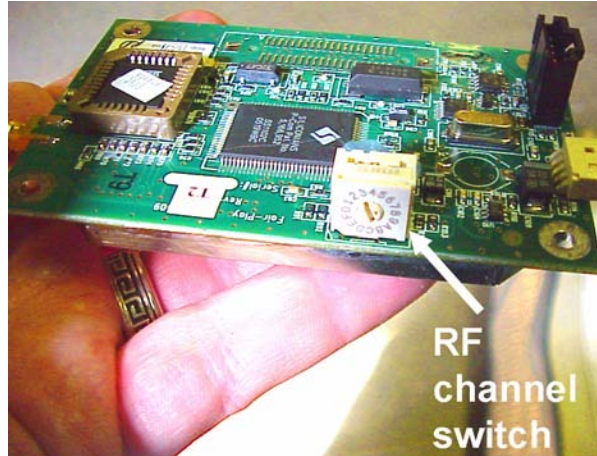


Receiver card: for low-voltage outdoor displays



Locating channel switch on receiver card

If you are having trouble locating the channel switch on the scoreboard's receiver card, then remove the receiver card from the scoreboard and hold the card in your hand. Turn the card around until you can see the channel switch, which resembles a dial. (See picture below).



Receiver card: high-voltage outdoor displays
(Also used with Teletite conversions).



On high-voltage outdoor displays (and Teletite conversions), the channel switch is located behind a hole in the side of the receiver box. (See following picture). Remove the plastic plug to access the channel switch.



Verifying your channel selection

Assuming your LED scoreboard is not receiving any signal from the control, the receiver channel number will display on the scoreboard for 30 minutes after you have powered it up. After that 30-minute period, the channel number displayed will disappear and a roving segment will move around the digits of the scoreboard..



Note: If you do not see either the channel display or the roving segment on your scoreboard, the scoreboard may have a power failure.

Verifying scoreboard signal lock

If you cannot tell what channel your scoreboard is set up to receive, you will need to find its signal lock. A signal lock takes place when the receiver card in your display has located the transmission signal from your wireless control.

To determine which operating channel your control is set to, power the control ON while holding down the **SHIFT** key, and the **9** key at the same time. The bottom line of the LCD display will then prompt you first for the power settings, then the ALL SCOREBOARD question; and finally, the SEL CHANNEL number. Use the numeric keypad to key in a different channel number. Conclude by pressing ENTER. If that channel number is not the correct one to operate your scoreboard, continue using this procedure to try additional channel numbers until you are successful. Enter all of the possible channel numbers, starting with channel 1, and working up to channel 13. If the transmitter and receiver cards are both functioning properly, the scoreboard should work on one of these 13 channels.

Turning wireless off

You will need to turn off the wireless feature if you want to hook up a wireless-equipped scoreboard to run on a conventional data cable. The procedure below describes how to turn off the wireless settings on your control.

1. Press **SHIFT + 9**.
2. The HIPOWER TRANSMIT? prompt appears, as shown below. Press **4/YES**.

```
TRANS-LUX
HIPOWER XMIT? Y/N
```

3. The ALL SCOREBOARDS prompt appears, as shown below. Press **6/NO**.

```
TRANS-LUX
ALL SCBDS? Y/N
```

4. The SELECT CHANNEL NUMBER prompt appears, as shown below. You may select either 0, 14, or 15 to turn off wireless, as these channels are not used. In the example below, the user has selected 0.

```
TRANS-LUX
SEL CHANNEL? 0
```

-
- At the last prompt, the settings that you have selected will display on the LCD screen. In the example below, the user has selected High-power Transmit, and has selected Channel 0.

```
TRANS-LUX
HIGH, SEL, CHO
```



Note: The SEL.CHANNEL_0 prompt appears even in ALL SCOREBOARDS mode. This way, a viable channel number will be used if the control is changed to SEL channel operation.

- Remember - You can always review your wireless settings by pressing the **SHIFT** + **BAT/RF** keys. Your current wireless settings will then appear on the LCD screen, similar to the example below.

```
HIGH, SEL, CHO
```

General wireless operating guidelines

- Maintain a clear, unobstructed line-of-sight between the control antenna and the receiving units. (See [“SETTING UP THE WIRELESS CONNECTION” ON PAGE 126](#) for more information).
- When possible, tune the control transmitter and scoreboard receiver to the lowest available channel setting.
- Also when possible, operate the control with its TRANSMIT mode switch set to the SEL position.
- If more than one control is in use at a facility, allow for at least one channel of separation between channel settings, starting with channel 1. Example:
control 1=channel 1;
control 2=channel 3;
control 3=channel 5, etc.



Note: Trans-Lux Fair-Play can arrange a recommended radio frequency channel plan for your site. Contact your sales representative for a channel plan.

- Avoid setting more than one control at a time to the ALL SCBDS mode, as this will cause the scoreboards to flicker. (For more information, see [“AVOIDING POTENTIAL PROBLEMS WITH MULTIPLE CONTROLS” ON PAGE 143](#)).
- Avoid setting more than one control at a time to a particular SEL mode channel setting, as this will cause scoreboards tuned to that channel to flicker. (For more information, see [“AVOIDING POTENTIAL PROBLEMS WITH MULTIPLE CONTROLS” ON PAGE 143](#)).

- Before establishing communication between a control set to ALL SCBDS and its intended receiving scoreboards, be sure to have established communication between the controls operating in the SEL mode and its intended receiving scoreboards. Otherwise, the scoreboards you intend to run with a control tuned to a particular channel in the SEL mode will be likely to lock onto the signal from the control set to ALL SCBDS, and may not respond to the intended SEL mode control when it is turned on. (For more information, see [“AVOIDING POTENTIAL PROBLEMS WITH MULTIPLE CONTROLS” ON PAGE 143](#)).
- The scoreboard or shot timer lamp driver circuit card can accommodate either conventional control wire hookup or wireless radio receiver, but is not designated to accept both data transmission methods simultaneously.

Operating wireless under special circumstances

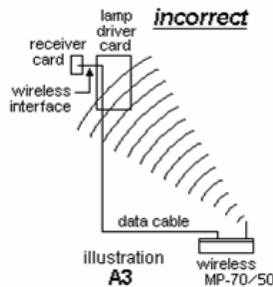
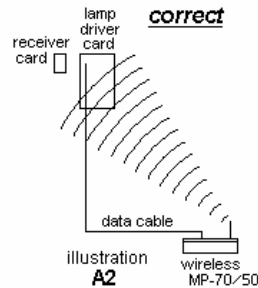
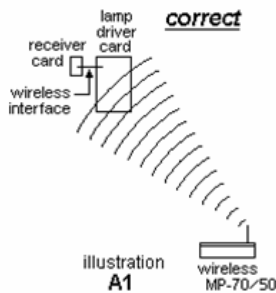
The following sections will give you pointers on setting up and operating the MP-70/50 control under special circumstances you may encounter.

Keep in mind that:

- A control set to ALL SCBDS will transmit indiscriminately to all wireless-equipped scoreboards in its range, regardless of what channel these scoreboards have their receivers set to, except for receivers equipped with a lockout jumper (part no. C1452) installed.
- A control set to the selective (SEL) transmission of channels 1-13, will transmit to all scoreboards in that vicinity that have their receivers tuned to that particular channel. Hence, a control set to channel 7 will transmit to all scoreboards in that vicinity that have their receivers set to channel 7.

Mixing wireless and conventional cable hookups

To use conventional control wire with a scoreboard, first disconnect the wireless receiver from the lamp driver card. Conversely, before using a wireless link, disconnect the conventional control wire from the lamp driver card. On indoor scoreboards, lamp driver and radio receiver cards are both located behind the scoreboard HOME SCORE window or shot timer SECONDS window. On outdoor scoreboards, the lamp driver and radio receiver cards are located behind a service access door adjacent to the disk antenna. Attempting to simultaneously connect conventional control wire and a wireless receiver card to a lamp driver card can damage both cards. The three illustrations below display correct vs. incorrect wireless/conventional cable arrangements.



Power-up sequence for multiple controls

For systems using multiple wireless MP-70/50s, observe the following power-up sequence:

1. Scoreboards and timers.
2. The MP-70/50 controls set to the SEL mode.
Multiple controls can utilize the SEL TRANSMIT mode, but they must each be set to different channels.
3. The MP-70/50 control set to the ALL mode. This has a limitation of ONE set of scoreboards set to ALL. Only ONE control at any given time should be set to the ALL TRANSMIT mode. No less than 45 seconds should be allowed to pass between each power-up activation. For example:
 - a. Turn power on to scoreboard 1
(CHANNEL SELECT SWITCH =4),
AND SCOREBOARD 2 (channel select switch =9)
 - b. Wait 45 seconds.
Turn first MP-70/50 power on.
(Mode =SEL, CH4)
 - c. Wait 45 seconds.
Verify that the scoreboard and shot timers set to channel 4 are responding to transmission from the MP-70/50 set to CH4.
Turn second MP-70/50 power on (Mode SEL, CH9 or ALL).
 - d. Verify that the scoreboard set to channel 9 is responding to transmission from the MP-70 set to SEL CH9 or ALL.

Synchronizing transmission modes

In SEL mode, the MP-70/50 controls only the scoreboards with receiver cards set to the same channel that the control is set to. In ALL mode, the wireless option controls all scoreboards within range.

In a volleyball tournament, for example, you could display the scores of two matches on two independent scoreboards, each controlled by a wireless MP-70/50. In this case, as shown below, the radio transmitter on both controls would be set to SEL.

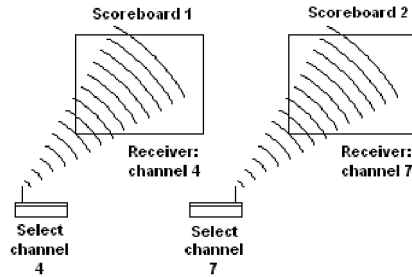


Illustration A

During the final match, when only one game is in progress, you could display the same information on both scoreboards. You would do so by setting the radio transmitter to ALL. If you need to configure multiple playing courts in the same manner, please review [“OPERATING THE MP-70/50 IN RELAY MODE” ON PAGE 146](#).

Before synchronizing multiple scoreboards to one ALL control signal, turn their controls off to disengage the SEL mode communication links. A scoreboard cannot respond to the ALL signal if it is already locked onto a SEL signal. An ALL scoreboards lockout jumper (Fair-Play part number C1452) is available if you have certain scoreboard or scoreboards that you want to run only with SEL signals. With this jumper installed, the receiver card will ignore the ALL signal.



Note: This lockout jumper is installed as standard hardware on outdoor scoreboards.

When the radio transmitter is set to SEL, you must select a channel as previously described. Set the MP-70/50 and the receiving devices located in your scoreboard to the same channel. When the radio transmitter is set to

ALL, the MP-70/50 controls all scoreboards within range, regardless of which select channel they are using.

When a scoreboard is locked onto a SEL mode signal, it ignores any transmissions from an MP-70/50 set to ALL. If you turnoff an MP-70/50 that is controlling a scoreboard in SEL mode, the scoreboards continues to ignore any transmissions from an MP-70/50 in ALL mode for 10 seconds. After 10 seconds, it responds to transmissions from an MP-70/50 in ALL mode.

To operate some scoreboards in SEL mode and others in ALL mode, turn on the scoreboards and MP-70/50 using SEL mode first. Then turn on those using ALL mode.



Note: Scoreboard display flickering or flashing may result when more than one MP-70/50 control is operating in ALL mode at the same time.

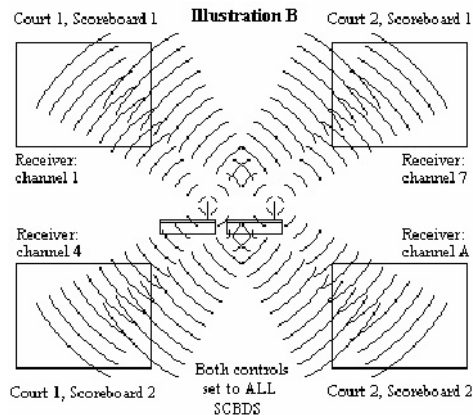


Note: The ALL RADIO TRANSMIT mode is not available on outdoor scoreboards or field timers. The select channel on the MP-70/50 control and on the receiver card (inside the scoreboard) must be set to the same channel, and the MP-70/50 control must be operated with the RADIO TRANSMIT mode set to SEL mode.

Avoiding potential problems with multiple controls

In facilities where one or more scoreboards are already synchronized to the signal of one wireless MP-70/50 transmitting in ALL SCBDS mode, that control will also transmit to any other scoreboards that you set up within its proximity - regardless of what the channel setting of the new scoreboard.

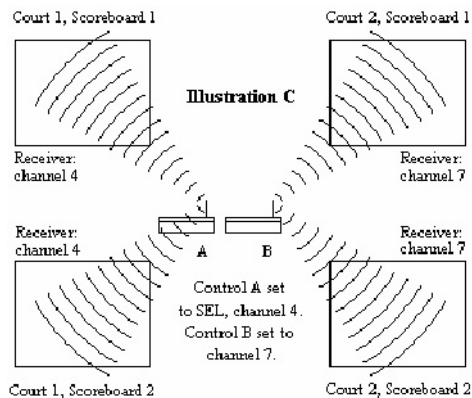
In other words, if you have a situation where two wireless scoreboards are operating on their own basketball courts, and are both operated under one control in ALL SCBDS mode, you will not be able to add and operate a new scoreboard independently, merely by using another MP-70/50 control set for ALL SCBDS. Instead, all of the scoreboards will display scrambled information, because each will not be able to discern which is its "correct" signal. This will result in the situation illustrated below:



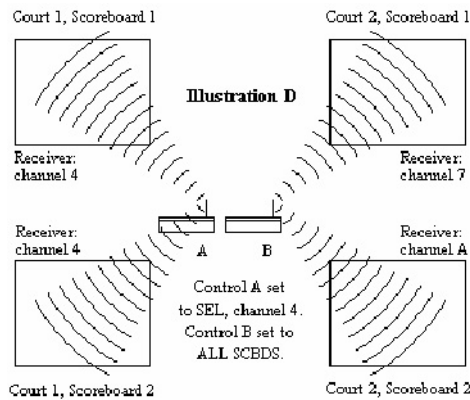
The reason for these garbled signals is that the wireless specification doesn't allow the simultaneous use of more than one wireless control set to one particular channel. A situation where two or more controls are located within each other's range and set to transmit on the same channel will produce competing signals. When this happens, the scoreboards will attempt to display both of these competing signals, resulting in garbled, unintelligible digits. Fortunately, your control includes the capacity to broadcast on 14 channels, and so the maximum number of wireless controls that can be used within a local vicinity is 14.

Instead, you can avoid garbling these transmission signals by setting up the controls in one of two different fashions:

- The recommended method of operating multiple scoreboards from one wireless control is to use the SEL TRANSMIT mode and tune the control and scoreboards to the same channel. As displayed below, the Court 1 scoreboards and control are tuned to channel 4 and the Court 2 scoreboards and control are tuned to channel 7. Keep in mind that this arrangement will require you to physically change the channel at one of the scoreboards of both courts if you ever want to operate all four scoreboards independently with four wireless controls. On the other hand, the benefit of this setup is that if either control ceases transmitting, the scoreboards that particular control was operating will not lock on to the signal from the other control.



- An alternative method would be to set the two scoreboards and one control of court 1 all to the same channel and transmit wireless data in the SEL mode. Once you have established the SEL mode wireless link on that court, you can then establish a link in the ALL SCBDS mode on court 2. (See illustration below). Again, this arrangement will require you to switch one of the court 1 scoreboards to a different channel, if you ever want to operate all four scoreboards independently with four wireless controls. The drawback of this setup is that if control A ceases transmitting, the scoreboards that control was operating could eventually lock on to the signal from control B.



Operating the MP-70/50 in Relay Mode

RELAY mode enables an MP-70/50 to retransmit the scoreboard control data from another MP-70/50 that is designated as the LEAD control. This mode would be used in large installations that have multiple scoreboard as operated from wireless controls. This feature accommodates the need to operate multiple scoreboards both independently and synchronized.

The lead/relay configuration essentially takes the ALL SCOREBOARD concept (detailed in the Transmission Modes section beginning at [“SYNCHRONIZING TRANSMISSION MODES” ON PAGE 140](#)) and applies it in a manner that allows synchronous scoreboard operation on multiple courts rather than only one. See illustrations below.

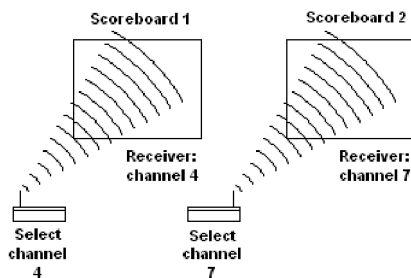


Illustration A

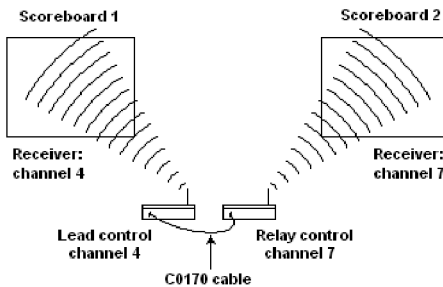


Illustration B

RELAY mode is used instead of changing the channel when synchronization is required. Take the following steps to accomplish this:

1. Make sure the SElect channels on both controls are different.
2. Set one of the controls to RELAY mode by applying power while pressing the **1** key. The LCD will display RELAY mode. (If the relay control is turned on, turn it off and wait 10 seconds before activating RELAY mode).



Note: The relay control must be set to RELAY mode before the controls are connected and power is applied to the lead control, or damage to one or both control outputs could occur.

3. Connect a twisted pair data cable (Fair-Play part number C01780) from the lead control SCOREBOARD PORT 1 to the relay control SCOREBOARD PORT 1.
4. Power up the lead control as usual.

In RELAY mode data is sent via the connecting cable from the lead control to the radio transmitter of the relay control. The relay control then sends the same data over its own radio channel to the receiving devices. All control of the scoreboards is accomplished from the lead MP-70/50. Any input on the relay control is ignored. The control in RELAY mode will stay in RELAY mode until you again apply power while holding down the **1** key. The control toggles in and out of RELAY mode with this procedure.



Note: Turning the control off does not take it out of RELAY mode, which was the case with firmware versions prior to Version 2.03.

Wireless Troubleshooting

The following section suggests possible solutions to problems you may encounter, including radio frequency interference, or other radio transmission problems.

Radio Frequency Interference

Under normal circumstances, other wireless signals, such as a nearby cellular phone relay tower, should not jam the wireless MP-70/50 during a sporting event. The control's radio signal is redundantly transmitted 16 times across a wide bandwidth using Spread Spectrum Technology - regardless of what channel or transmit mode your control is set to. Spread Spectrum Technology provides a high level of reliability, and is designed to hinder interference effects from cellular phones, cordless devices, microwaves and other Radio Frequency devices, as well as provide security from signal jamming.

However, wireless reception capability can be affected by unrelated Radio Frequency traffic in the area. As "stray" signals increase, reception range may decrease.

In the unlikely event that you think you are experiencing Radio Frequency interference, we recommend that you first change channels, which should eliminate any problems.



Note: The Federal Communications Commission (FCC) has certified that Fair-Play's wireless MP-70/50 device will not cause harmful interference to other FCC-approved equipment.

Cell filter kits

If you encounter a situation where your wireless scoreboard lights start flickering for no apparent reason, or your scoreboard exhibits sluggish responses (i.e., the clock does not run at a normal cadence), or you experience signal loss or dropout, contact the Fair-Play Help Desk. These problems can often be solved with the purchase of an in-line filter kit, (part no. 08-1003-00-2 with C1516 cable, or part no. 06-0076 -01). These in-line filter kits are installed between the antenna cable or receiver. Outdoor scoreboards built after Oct. 17, 2005 should already have had a 08-1003-002 in-line filter kit installed at the factory.

Scoreboard not picking up radio signal

If a scoreboard or shot timer is having difficulty locking onto the radio signal, try the following:

1. Make sure the control's antenna is in the upright position, with an unobstructed line of sight to the scoreboard.
2. Relocate the control closer to the scoreboard.
3. Shut off the control and scoreboards and/or shot timer power for 20 to 30 seconds, then turn them back on.
4. If the control is in SEL mode, switch the transmitter and receiver to a different channel from the one currently being used. Be sure to turn the scoreboard power off during this stage.

Or

Wait 20-30 seconds, and then turn the control back on.



Note: Channels 0, 14, and 15 disable the radio transmitter on the MP-70/50 when the radio transmitter is in SEL mode. Likewise the receiver located in a wireless scoreboard is disabled when the channel switch is set to 0, E or F.

5. Make sure the control is programmed for high power radio transmission, as instructed at ["HIGH AND LOW POWER MODES" ON PAGE 128](#).



Note: If you have difficulty establishing a signal lock on any display, switch ALL of your controls to high power.

6. If there has been no response to any of these possible fixes, Fair-Play recommends that you run the scoreboard with a conventional data cable for the duration of your game until you have more time to determine the cause of the problem. If you decide to do this, be sure to set the wireless MP-70/50's channel switch (located on the back panel) to position E, F, or 0; and the TRANSMIT mode switch to SEL. This will turn the radio transmitter off and prevent possible damage to the scoreboard's processor.

Final wireless control considerations

- In facilities that have more than one wireless scoreboard, assign a particular control for use with a particular scoreboard and apply identification labels for each control.
- Keep a record of the channels on which the scoreboard's receivers are set, and document the scoreboard Fair-Play model number. This is especially useful for facilities that have more than one scoreboard, and speeds up service processing if you should require future assistance. (For more information, see ["GETTING HELP" ON PAGE 6](#)).
- For periods of extended system inactivity, such as a school holiday or overnight, shut off power to all scoreboards, timers and controls. This will extend product life and increase the safety margin, should servicing be necessary.

16

Programming the System Settings

Under normal circumstances, you should not have to change the System Settings configuration of your MP-70/50, as this is normally done at the Fair-Play factory. Also, the control has a memory circuit that retains game information in case of loss of power.

However, you may need to change the SYSTEM SETTINGS under certain situations. A typical reason why the System Settings would need to be changed is if some change occurs in the display system hardware. For example, if you connect a baseball scoreboard to an MP-70/50 that you have been using to run a football scoreboard, you need to adjust both the system and sport-specific settings. Otherwise the game data cannot be correctly displayed on the baseball scoreboard, because the control is still configured to run the football scoreboard.

The MP-70/50 has two programming levels: SYSTEM SETTINGS and CHANGE SPORT. The SYSTEM SETTINGS, which is explained in this chapter, allow you to configure the MP-70/50 for use with your particular Fair-Play scoreboard display systems.

The MP-70/50 system settings allow you to do the following:

- Specify the type of scoreboard you are using.
- Send data to the scoreboard in either MP-69 or MP-70 format.
- Choose a 12-hour or 24-hour time of day clock.

The CHANGE SPORT level allows you to set the MP-70/50 to monitor and update game statistics for a particular sport. Details about CHANGE SPORT are located under [“SELECTING AND CHANGING SPORTS” ON PAGE 175](#).



Note: If the SYSTEM SETTINGS are incorrect, prompts in CHANGE SPORT may not correlate to the scoreboard model you are trying to operate and unexpected or undesired control or scoreboard behavior could result.

Programming Sequence

Initial control programming needs to be performed in the following sequence:

1. SYSTEM SETTINGS programming. Follow instructions on the following pages.



Note: Your control may already be programmed with a preset configuration. See [“LOADING AN EXISTING CONFIGURATION” ON PAGE 207](#) to load an existing configuration.

2. CHANGE SPORT programming. Follow instructions under [“SELECTING AND CHANGING SPORTS” ON PAGE 175](#).



Note: Always reset the control for a new game after changing any of the SYSTEM SETTINGS or CHANGE SPORT settings. Follow instructions under [“NEW GAME” ON PAGE 22](#).

Adjusting System Settings

Follow these steps to adjust the system settings:

1. Turn off the MP-70/50.
2. Press and hold the zero key while turning on the MP-70/50.

System settings in detail

The first prompt you will receive is SCBD TYPE.

Scoreboard type

The MP-70/50 must be properly configured for the type of scoreboard it is controlling. The SCBD TYPE prompt indicates the scoreboard type currently selected. In the example below, the current scoreboard type number is 7.

```
SYSTEM SETTINGS
SCBD TYPE #? 07
```



Note: The MP-50 operates scoreboard types 00, 25-32, and 36 only. See ["BOARDS SUPPORTED" ON PAGE 161](#) for more information.

If you want to keep the current setting, press **SHIFT+NEXT**. Otherwise, locate the scoreboard type number for your scoreboard listed under ["BOARDS SUPPORTED" ON PAGE 161](#). Enter this number at the SCBD TYPE prompt and then press **ENTER**.

If you do not see your scoreboard model number in the tables listed under ["BOARDS SUPPORTED" ON PAGE 161](#), contact the Trans-Lux Help Desk. See ["CONTACTING THE HELP DESK" ON PAGE 6](#) for more information.

Some scoreboards offer features that require special equipment in addition to the MP-70/50. For example, electronic team names (MP-70 only) or a time of day clock require additional equipment.

System settings for Baseball

The following two-page section describes features found on Baseball scoreboards 31, 33, 34 and 39. If you do not have these scoreboards, skip to [“MP-70 AND MP-69 DATA OUTPUTS” ON PAGE 157](#).

Settings for baseball board type 31

If board type 31 has been entered, the prompts shown below appear next in the programming sequence. You will need to know your scoreboard's model number to answer the following questions correctly.



Note: You may only have the ability to select one of the options below, depending upon your scoreboard's model number.

- Press **YES** at the 4 DIGIT CLOCK prompt only if you have an MP-7200 scoreboard.
- Press **YES** at the AT-BAT prompt only if you have a BA-7200AB scoreboard, so that the AT-BAT prompt will appear on your scoreboard.
- Press **NO** at both prompts if you have a BA-7200T scoreboard, which does not allow for a 4-digit clock or an AT-BAT indicator. If you press **NO**, the control will default to showing the two-digit clock instead of AT-BAT.

```
SYSTEM SETTINGS  
4 DIGIT CLK? Y/N
```

```
SYSTEM SETTINGS  
AT-BAT ON SB?Y/N
```

Settings for baseball board type 33

If board type 33 has been entered, the prompts shown below appears next in the sequence of programming questions

- Press **YES** to the AT-BAT prompt if you want to display AT-BAT on your scoreboard.
- Press **NO** and the control will default to showing the two-digit clock instead of AT-BAT.

```
SYSTEM SETTINGS
AT-BAT ON SB?Y/N
```

Settings for baseball board types 34 or 39

If board type 34 or 39 has been entered, the prompt shown below appears next in the sequence of programming questions

- Press **YES** to the AT-BAT prompt if you want to display AT-BAT on your scoreboard.
- Press **NO** and the control will ask you if you want to display Pitch Speed (see ["PITCH SPEED \(BOARD TYPES 34 & 39\)" ON PAGE 156](#)).

```
SYSTEM SETTINGS
AT-BAT ON SB?Y/N
```

Settings for baseball board type 35 (BA-7120MP only)

If you are operating a baseball scoreboard with the model number of BA-7120MP, and you have entered Board Type 35 , the prompt shown below appears next in the sequence of programming questions.

- Press **YES** to the AT-BAT prompt if you want to display AT-BAT on your scoreboard.
- Press **NO** and the control will ask you if you want to display Pitch Speed (see ["PITCH SPEED \(BOARD TYPES 34 & 39\)" ON PAGE 156](#)).

```
SYSTEM SETTINGS
AT-BAT ON SB?Y/N
```

Pitch speed (board types 34 & 39)

SYSTEM SETTINGS
PITCH SPEED? Y/N

Pitch speed is available only for scoreboard types 34 and 39. To display pitch speed on your scoreboard, you will need a Jug's Speed gun (model HTRCR-1K) and a Jug's cable (model R7010). Your MP-70 control will also need to be enabled for this feature. This is done at the factory. Consult your Fair-Play dealer for details.

MP-70 and MP-69 data outputs

Your Fair-Play scoreboard requires data in one of two formats: MP-70 or MP-69.

- MP-69 is a data format developed in 1984, and still in use in some incandescent-light scoreboards. This data output is not compatible with serial ports on a personal computer.
- MP-70 is a data format developed in 1998, and is compatible with serial ports on a personal computer.



Note: The tables listed under “BOARDS SUPPORTED” ON PAGE 161 indicate which data format your scoreboard model requires.

```
SYSTEM SETTINGS
CONN.1,MP69? Y/N
```

```
SYSTEM SETTINGS
CONN.2,MP69? Y/N
```

```
SYSTEM SETTINGS
CONN3&4,MP69?Y/N
```



Note: Although Trans-Lux sells an MP-70 control, it is important to note that in this instance, “MP-70” also refers to a protocol used by your controller to communicate with the scoreboard. Hence, the MP-30 control uses the MP-69 or the MP-70 data transmission method to communicate with your scoreboard.

The MP-70/50 can provide data in either format. The prompts shown above allow you to specify which data format each output connector provides. If the MP-70/50 is controlling multiple scoreboards, be sure you know which output connector drives each scoreboard before changing these settings. Respond with **YES** to set the output to MP-69 data, and **NO** to set the output to MP-70/50 data. Connector one is automatically configured for MP-70/50 data on wireless controls, so the CONN.1 prompt will not be displayed.



Note: The wireless connection cannot transmit data in the MP-69 format. If you are using a wireless M-70/50 to control a scoreboard that requires MP-69 data, configure the output connectors to transmit MP-70 data. A convertor box at the scoreboard converts this data to the MP-69 format.

```
SYSTEM SETTINGS
CLK.AT TIMER?Y/N
```

If you press **YES** at the CONN3&4,MP69 prompt, the CLK AT TIMER prompt appears. If you are using shot timers that have a built-in game clock, press **YES**. Otherwise, press **NO**.

```
SYSTEM SETTINGS
RADIO@ TIMER?Y/N
```

If your MP-70/50 is equipped with the wireless option and you press **NO** at the CONN3&4,MP69 prompt, the RADIO@TIMER prompt appears as shown above. If you are using wireless shot/field timers, press **YES**. Otherwise, press **NO**.

```
SYSTEM SETTINGS
TEAM NAMES? Y/N
```

If CONNS 1 & 2 are both set to MP-69 data, you will not be given the TEAM NAME prompt. Otherwise the TEAM NAME prompt will appear as shown above. If you scoreboard is equipped with team name displays and you wish to activate this function, press **YES**. Otherwise, press **NO**. The team name entry procedure is described at "[TEAM NAMES](#)" [ON PAGE 121](#). (Recall that the team names function is not available on the MP-50 control).

Time of day clock

This prompt allows you to choose between a 12-hour or 24-hour time of day clock. Press **YES** for a 24-hour clock or **NO** for a 12-hour clock.

```
SYSTEM SETTINGS
24HR TOD CLK?Y/N
```

Wireless system settings

The following three prompts will only appear if your control has the wireless option. See ["BATTERY OPTION" ON PAGE 167](#) for more information on these settings.

HIPOWER XMIT: Responding with **YES** will send the radio transmission at full power. Otherwise **NO** will send radio data at a reduced power rate. Respond **YES** at this prompt.

```
SYSTEM SETTINGS
HIPOWER XMIT?Y/N
```

ALL SCBDS: Responding with **YES** will put the radio transmitter in ALL SCOREBOARDS mode. **NO** will put the transmitter in SElect mode.

```
SYSTEM SETTINGS
ALL SCBDS? Y/N
```

SEL CHANNEL: Respond with one or two-digit Select channel number. Valid entries are 0 to 15. Conclude by pressing the **ENTER** key. This number represents the radio channel number. See ["BATTERY OPTION" ON PAGE 167](#) for a detailed explanation.

```
SYSTEM SETTINGS
SEL. CHANNEL? _ _
```

Exiting system settings

Respond **YES** to the prompt above to exit SYSTEM SETTINGS. Press **NO** to start over at the SCBD TYPE prompt.

```
SYSTEM SETTINGS
QUIT? Y/N
```

Boards supported

Boards Supported			
Board type number	MP-50 Compatible Boards	Board Using MP-69 Data	Boards Using MP-70 Data
00	BB-1500, BB-1600, BB-1700, BB-1800, BB-1851, HK-1600, HK-1700, HK-1800, PS-1400, PSO-6900	BB-6500, BB-6600, BB-6750, BB-6790, BB-6800	BB-1500, BB-1600, BB-1700, BB-1800, BB-1851, HK-1600, HK-1700, HK-1800, PS-1400, PSO-6900
01		BB-6520, BB-6620, BB-6630, BB-6864, BB-6862 S	BB-1520 BB-1620, BB-1640, BB-1660, BB-1850, HK-1760, MP-1400
02		BB-6620 TA	BB-1610, BB-1670, BB-1680, WR-1400
03		BB-6622, BB-6725, BB-6795	BB-1630, BB-1730

Boards Supported			
Board type number	MP-50 Compatible Boards	Board Using MP-69 Data	Boards Using MP-70 Data
04		BB-6730	BB-1720, BB-1722, BB-1760, BB-1770
05		BB-6662, BB-6760, BB-6770	BB-1635, BB-1735, BB-1855, BB-1860,
06		BB-6660	BB-1625, BB-1645, BB-1665
07			BB-1615, BB-1675, BB-1685
08			BB-1725, BB-1765, BB-1775
09			BB-1636, BB-1736,
10			BB-1626, BB-1646, BB-1666
11			BB-1616, BB-1676

Boards Supported			
Board type number	MP-50 Compatible Boards	Board Using MP-69 Data	Boards Using MP-70 Data
12			BB-1726, BB-1766, BB-1776
13		HK-6704, HK-6704-4, HK-6704-45, HK-6705, HK-6705 SN, HK-6705-45, HK-6714	HK-1650, HK-1655, HK-1750, HK-1755, HK-1770
14		HK-6705 SG	HK-1780, HK-1790, HK-1870, HK-1880, HK-1885
15			MP-89088-2
16			
17		BB-6655	
18			
19			
20		HK-8216	HK-8216
21		SC-8124 PT	SC-8124LA
22		SC-8124	SC-8124

Boards Supported			
Board type number	MP-50 Compatible Boards	Board Using MP-69 Data	Boards Using MP-70 Data
23		FB-8120 series, FB-8127 series, FB-8132 series, SC-8120, MP-8114	CL-1031, FB-8120 series, FB-8127 series, FB-8132 series, SC-8120
24		FB-8136 series	FB-8136 series, FB-8145 series
25	FB-8114, FB-8218	FB-8114, FB-8218	FB-8114, FB-8218
26	FB-8218TK	FB-8218TK	FB-8218TK
27	MP-7108, MP-8114	MP-7108	MP-7108, MP-8114
28	MP-7109, MP-7109T4, MP-7114	MP-7109, MP-7109T4, MP-7114	MP-7109, MP-7109T4, MP-7114
29	BA-7109CL,	BA-7109CL	BA-7109CL
30	BA-7109T, MP-7114j	BA-7109T, MP-7114j	BA-7109C BA-7109T, MP- 7114j
31	BA-7200, BA-7200AB, BA-7200T	BA-7200, BA-7200AB, BA-7200T, MP-7200	BA-7200, BA-7200AB, BA- 7200T, MP-7200
32	BA-7100, BA-7109	BA-7100, BA-7109	BA-7100, BA-7109,

Boards Supported			
Board type number	MP-50 Compatible Boards	Board Using MP-69 Data	Boards Using MP-70 Data
33		BA-7118	BA-7118, BA-7118MP
34		BA-7127 series, BA-7128, BA-7136, BA-7136 TOD	BA-7126 series, BA-7127 series, BA-7128, BA-7136
35		BA-7120	BA-7120
36	SC-8114	SC-8114	SC-8114
37		TK-8818, TK-8918	TK-8918 (ver. 1.23T or higher)
38		BA-7136FB	BA-7136FB
39			BA-7200MP
40			SC-8220-2

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Battery Option

The battery option, available on both standard and wireless MP-70/50 controls, provides an on-board power source that virtually eliminates the need to plug the control into an AC-voltage outlet to operate a scoreboard. AC voltage is only required during battery recharge. When the battery option is combined with the wireless option, the MP-70/50's versatility is significantly enhanced.

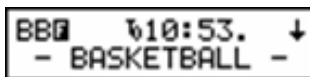
The battery pack, which is housed inside the control, is a rechargeable Nickel Metal Hydride (Ni-MH) cell assembly that has been exclusively designed and packaged for use in Trans-Lux controllers. Under typical operating conditions, it will generate a minimum of eight hours of control power before recharging is required. The battery charge level is continuously monitored by the control's main microprocessor and is displayed on the LCD readout. The battery charger, supplied with the control, can be plugged in and used to power the control at any time if the battery's charge is too low.

To maximize battery life, it is important to observe proper operating, recharging and storage recommendations and precautions, which are outlined in the remainder of this chapter. With proper care, the battery pack should provide years of service.

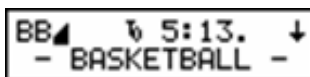
Battery control features

The physical appearance of an MP-70/50 control equipped with the battery option is similar to AC-powered controls. The only difference is that the back panel has a 5/8-inch diameter circular battery charge connection port in lieu of a seven-foot power cord.

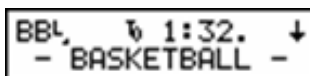
The electronic function of battery powered MP-70 is exactly the same as its AC-powered cousin with only one notable exception - the addition of a battery charge 'gas gauge' indicator. This indicator is located on the upper half of the LCD readout just to the right of the two-character sport code. The graphics below depict the appearance of the indicator at various charge levels.



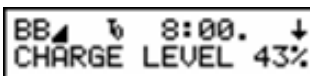
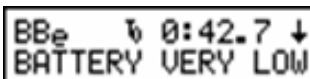
Full charge level



Intermediate charge



Low charge level

% Charge
(SHIFT + BAT/RF)

Extremely low battery

The battery charge level can also be presented as percentage on the display at any time by pressing **SHIFT+BAT/RF**.

If the battery pack discharges to a very low level, the control will issue an audio-visual warning. The beeper will “chirp” a rapid succession of tones a lower case letter “e” (for “empty”) will be displayed on the gas gauge indicator, and the message “BATTERY VERY LOW” will appear on the bottom half of the LCD readout.

If you receive this warning, it means that the control will likely lose power within 10 minutes and one of the following three courses of action should be immediately taken:

1. Attach the battery charger to the controller and plug it into an AC wall power outlet. The control will then continue to run normally, but the battery won't begin charging properly until the control's power switch is turned off.
2. Set up and begin using a backup controller after turning off the discharged control.
3. Turn off the control and replace the discharged battery pack with one that is fully charged. The bottom panel has a removable tray that allows quick access to the battery pack for easy inspection or replacement.

Using and recharging battery controls

- Operating ambient temperature range: 0° F to +140° F. (-17.7° C to +60° C)
- Operating time: eight hours minimum, under typical conditions.
- Charging ambient temperature range: +32° F. to 104° F (0° C to +40°C)
- Charging time from full discharge to full charge: ten to 12 hours.

The battery pack supplied in the MP-70/50 control has been factory conditioned and maintained for peak performance. To keep the battery in top condition and maximize its life and charging capacity, take some time to get acquainted with - and abide by - the following care and safety recommendations:

- NiMH batteries tend to perform better and last longer if allowed to completely recharge to the "BATTERY VERY LOW" warning before recharging.
- Set the ON/OFF power switch located on the control's back panel to the OFF position during the charging process. Battery controls will not charge properly if the power switch is in the ON position.
- Fully charge the battery control once before using it for the first time, or when it is brought out of extended off-season storage.
- Do not leave the battery control plugged into the charger for more than 20 hours at a time. Overcharging may damage the battery and shorten its life. Damage to the control or charger may also result.
- Charge the battery control in a dry location with an ambient temperature between +32°F and +104° F (0° C to +40° C). To prevent possible damage to the charger, the control and/or battery pack, never charge a control in temperatures exceeding +104° F (+ 40° C). Extreme hot or cold temperatures will affect the battery's ability to charge or operate correctly, so allow the battery to warm up or cool down as necessary before charging or using. Optimal battery life is achieved when used or charged at temperatures between +68°F and +86° F (+20°C and +30°C).
- Turn the battery control off after every use. Failure to do so may drain the battery to a critically low voltage, in which case the control will not function and the battery may be weakened or damaged. To keep this from happening, check the gas gauge indicator frequently and keep the battery sufficiently charged.
- If the battery voltage is allowed to become critically low, or if the battery is overcharged, the gas gauge memory could be affected and the charge level indicator may not accurately reflect the remaining battery charge. This could also disrupt normal data communication between the battery and the control. If you believe the indication is inaccurate, try discharging and recharging the control three or four times to retrain the gas gauge memory. If the indicator still fails to work properly, we recommend that you replace the battery pack.
- Though the battery can be charged and discharged hundreds of times, it will eventually wear out. Battery pack replacement is recommended when the operating time between charges becomes noticeably shorter than usual.

-
- When the battery charger is not in use, unplug it from the AC wall power outlet.

If the control is operated in mild temperature environments or programmed for board types other than 5-12, you'll likely get substantially more than eight hours of use from a full charge. Optimal battery capacity during use is obtained at roughly +70° F (+21.1°C), and decreases as temperatures fluctuate higher or lower. Board types 5-12 process larger amounts of data, which consumes more power.

Wireless (radio equipped) battery controls have a programming feature that allows selection between HIGH POWER and LOW POWER radio transmission modes. Under normal circumstances, use the HIGH POWER mode, as the LOW POWER mode is only used for system testing. Instructions on how to program the control for high power radio transmission are found in ["WIRELESS OPTION" ON PAGE 125](#).

To recharge the battery, turn the control's power switch off and attach the battery charger to the circular charging port on the back of the control. Secure the charger to the control by rotating the charger's cable connection locking ring clockwise 1/4 turn, then plug the charger into an AC voltage outlet. The red LED charging indicator will illuminate, and become gradually dimmer during the charging process. To prevent overcharging, disconnect the charger when recharge cycle is complete (after ten to 12 hours for a fully-discharged battery).

Battery storage

- Storage ambient temperature range: -40° to +140° F (-40°C to +60°C).
- Optimal storage ambient temperature range: +55°F to +90° F (12.7°C to 32.2°C).
- Optimal storage relative humidity: 50 percent.

It is normal for battery controls to self-discharge over time, even when they are switched off. The rate of self-discharge is dependent upon temperature, which means that the battery will discharge faster in higher temperatures. To minimize this effect, observe the following:

- When the battery control is not in use, keep it in a cool, dry place where the temperature is maintained between +55° and +90° F.
- If the battery control is not going to be used for extended periods of time, such as during a sport's off-season, fully charge the control before putting it away for storage.
- Refresh the battery once every three months during long-term storage by discharging the control to the "BATTERY VERY LOW" warning, and then recharging.

Battery control safety and precautions

- Use only the specified charger or equipment for the charging function. Never modify the specified charger.
- Do not modify the MP-70/50 battery control's electronics or wiring.
- Do not disassemble or modify the battery pack.
- Never use a damaged or worn out charger or battery. Periodically inspect the charger and battery for signs of wear or damage.
- Keep the battery control and battery pack dry.
- Keep the battery control away from fire or other sources of extreme heat. Overheated battery packs can expand, or burst and explode.
- Wear protective gloves and safety glasses and use extreme caution when handling a damaged or leaking Nickel Metal Hydride battery pack. The chemical inside the battery cells is strongly alkaline and can cause injury to the eyes and skin, and damage to clothing.
- Never short-circuit the battery pack terminals. This could cause the battery pack to overheat and burst, or explode.
- Do not expose the battery control to temperatures above +140° F (+60°C), such as in a car parked in the sun, or under direct sunlight. If you must use your control on hot, sunny days, try to keep it in a shaded area, such as a baseball dugout or football press box.

- Never dispose of the battery pack in fire. Also disposing of NiMH batteries in household or business trash containers may be prohibited in some areas. Consult and comply with local ordinances for approved disposal or recycling procedures.
- Do not expose the battery control to excessive physical impact.
- Never use the battery pack in any other device or for any other purpose.

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Selecting and changing sports

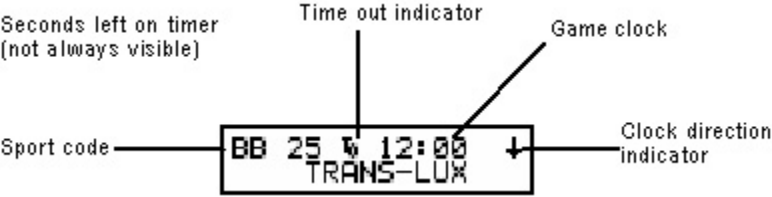
Under normal circumstances, you should not have to change the sport configuration of your MP-70/50, as the control has a memory circuit that retains game information in case of loss of power.

However, if you do need to change the sport selected for your MP-70/50, make these adjustments only after the SYSTEM level configuration is done. (For more information on changing the system configuration, see [“PROGRAMMING THE SYSTEM SETTINGS” ON PAGE 151](#)).



Note: If the SYSTEM SETTINGS are incorrect, prompts in CHANGE SPORT may not correlate to the scoreboard model you are trying to operate and unexpected or undesired control or scoreboard behavior could result.

Selecting a sport



Sport Codes

Following the start up message, a two-letter code representing the sport currently selected appears in the upper-left corner of the LCD display as shown in the figure above.

The two-letter sport codes are listed in the following table.

Abbreviation	Sport
BB	Basketball
FB	Football
HK	Hockey
WR	Wrestling
SC	Soccer
LA	Lacrosse (board type 21 only)
VB	Volleyball
TK	Track
BA	Baseball

To select a different sport, follow the steps described on the following page. Be sure your scoreboard supports the sport you want to select. In other words, don't try to display football information on a baseball scoreboard unless the scoreboard is capable of doing so!



Note: When initially programming the MP-70/50, or if the display system hardware (scoreboard type) has changed, be sure to configure the SYSTEM SETTINGS before doing anything with the CHANGE SPORT settings. See ["PROGRAMMING THE SYSTEM SETTINGS" ON PAGE 151](#) for details.

1. Turn off the MP-70/50
2. Press and hold the **ENTER** key while turning on the MP-70/50. The following messages appear on the LCD display.

```

- CHANGE SPORT -
BASKETBALL? Y/N

```

```

- CHANGE SPORT -
CONTINUE? Y/N

```

3. With the **YES** and **NO** keys, select the desired sport.
4. To change the sport-specific settings, press **YES** at the CONTINUE prompt. Otherwise, press **NO**. See the chapter relating to each sport for information on these sport-specific settings. The table shown below and on the following pages will help you locate the appropriate chapter, and the questions detailed within each chapter.

Sport	Page	Questions	Description
Basketball	PAGE 26	FIBA RULES?	Allows you to program the control according to FIBA international basketball rules
Basketball	PAGE 26	AUTO PER. ADV?	This feature, which is only used with FIBA rules, allows the control to run a sequence of periods and breaks.
Basketball	PAGE 25	FOUL MEMORY?	Tracks fouls and points by player number, for up to 15 players.

Sport	Page	Questions	Description
Basketball (cont.)	PAGE 27	POINTS MEMORY?	If you have selected the FOUL MEMORY prompt, this tracks points by player number, for up to 15 players.
Basketball	PAGE 27	ENTER LINEUP?	If you have selected the FOUL MEMORY prompt, this allows you to enter player numbers.
Basketball	PAGE 28	BONUS FLS 1 TO 9?	Specifies number of team fouls (between 1 and 9) needed for a bonus.
Basketball	PAGE 28	MAX T. FOULS?	Specifies maximum number of team fouls displayed on the scoreboard.
Basketball	PAGE 28	COUNT DN. CLK?	Specifies whether the clock counts up or down.
Basketball	PAGE 29	1/10 SEC CLK?	Displays tenths of seconds in the last minute of play.

Sport	Page	Questions	Description
Basketball (cont.)	PAGE 29	JUMPING CLK?	If you have selected the 1/10th Sec Clk option listed above, this option moves digits representing seconds left of the colon in the last minute of play. Tenths of seconds move to the right of the colon.
Basketball	PAGE 29	AUTO HORN?	Programs the control to sound the horn for five seconds at the end of a period.
Basketball	PAGE 30	T.O. TO SCBD?	Allows the timeout timer to appear on the scoreboard.
Basketball	PAGE 30	TIMER SET #1 & 2?	Shows duration of shot timer clock.
Basketball	PAGE 30	CLK SET TO?	Sets total minutes of game period.
Basketball	PAGE 31	BREAK SET TO?	Sets total minutes of break period.
Basketball	PAGE 31	O.T. SET TO?	Sets total minutes of overtime period.
Basketball	PAGE 31	TIMEOUT TIMER TO?	Sets total seconds per timeout for primary, or "full" timeouts.
Basketball	PAGE 31	2ND TIMEOUT TIMER?	Sets total seconds per timeout for secondary, shorter timeouts.

Sport	Page	Questions	Description
Basketball (cont.)	PAGE 32	#OF TOLS 1 TO 9?	Sets total number of timeouts allowed.
Football	PAGE 45	UPDATE YARD?	Allows the yardage values you enter using the DOWN PLACE, TO GO and BALL ON EVENT keys to appear on the scoreboard automatically.
Football	PAGE 47	COUNT DN. CLK?	Specifies whether the clock counts up or down.
Football	PAGE 47	1/10 SEC CLK?	Displays tenths of seconds in the last minute of play.
Football (cont.)	PAGE 47	JUMPING CLK?	If you have selected the 1/10th Sec Clk option listed above, this option moves digits representing seconds left of the colon in the last minute of play. Tenths of seconds move to the right of the colon.
Football	PAGE 48	AUTO HORN?	Programs the control to sound the horn for five seconds at the end of a period.
Football	PAGE 48	T.O. TO SCBD?	Allows the timeout timer to appear on the scoreboard.

Sport	Page	Questions	Description
Football (cont.)	PAGE 48	TIMER SET TO?	
Football	PAGE 48	CLOCK SET TO?	Sets total minutes of game period.
Football	PAGE 49	BREAK SET TO?	Sets total minutes of break period.
Football	PAGE 49	O.T. SET TO?	Sets total minutes of overtime period.
Football	PAGE 49	T.O. TIMER TO?	Sets total seconds per timeout.
Football	PAGE 49	#OF TOLS 1 TO 9?	Sets total number of timeouts allowed.
Hockey (cont.)	PAGE 54	INT.TIMER ON? Y/N?	The interval timer specifies sub-segments of times.
Hockey	PAGE 54	INT.TIME?	Enter the amount of interval times in minutes and seconds.
Hockey	PAGE 55	10' PEN. SPOTS?	Allows 10-minute player penalties to appear on 10-minute penalty lights. (For European usage).
Hockey	PAGE 55	COUNT DN. CLK?	Specifies whether the clock counts up or down.
Hockey	PAGE 56	1/10 SEC CLK?	Displays tenths of seconds in the last minute of play.

Sport	Page	Questions	Description
Hockey (cont.)	PAGE 56	JUMPING CLK?	If you have selected the 1/10th Sec Clk option listed above, this option moves digits representing seconds left of the colon in the last minute of play. Tenths of seconds move to the right of the colon.
Hockey	PAGE 56	AUTO HORN?	Programs the control to sound the horn for five seconds at the end of a period.
Hockey	PAGE 57	T.O. TO SCBD?	Allows the timeout timer to appear on the scoreboard.
Hockey	PAGE 57	TIMER SET TO?	Specifies minutes of game period.
Hockey	PAGE 57	CLK. SET TO?	Sets total minutes of game period.
Hockey	PAGE 57	BREAK SET TO?	Sets total minutes of break period.
Hockey	PAGE 58	O.T. SET TO?	Sets total minutes of overtime period.
Hockey	PAGE 58	T.O. TIMER TO?	Sets total seconds per timeout.
Hockey	PAGE 58	#OF TOLS 1 TO 9?	Sets total number of timeouts allowed.

Sport	Page	Questions	Description
Wrestling (cont.)	PAGE 69	COUNT DN. CLK?	Specifies whether the clock counts up or down.
Wrestling	PAGE 70	1/10 SEC CLK?	Specifies whether the clock counts up or down.
Wrestling	PAGE 70	JUMPING CLK?	If you have selected the 1/10th Sec Clk option listed above, this option moves digits representing seconds left of the colon in the last minute of play. Tenths of seconds move to the right of the colon.
Wrestling	PAGE 71	AUTO HORN?	Programs the control to sound the horn for five seconds at the end of a period.
Wrestling	PAGE 71	T.O. TO SCBD?	Allows the timeout timer to appear on the scoreboard.
Wrestling	PAGE 71	CLOCK SET TO?	Sets total minutes of game period.
Wrestling	PAGE 71	BREAK SET TO?	Sets total minutes of break period.
Wrestling	PAGE 72	O.T. SET TO?	Sets total minutes of overtime period.
Wrestling	PAGE 72	T.O. TIMER TO?	Sets total seconds per timeout.

Sport	Page	Questions	Description
Wrestling (cont.)	PAGE 72	#OF TOLS 1 TO 9?	Sets total number of timeouts allowed.
Soccer	PAGE 76	MT TO CONN 2?	Only used for FB-8218TK scoreboard. Allows control to display data in minutes tens of that particular scoreboard.
Soccer	PAGE 77	COUNT DN. CLK?	Specifies whether the clock counts up or down.
Soccer	PAGE 78	SUM CLK TIME?	As the soccer game clock counts up, it will add the minutes of the first half to the second half.
Soccer	PAGE 78	1/10 SEC. CLK?	Displays tenths of seconds in the last minute of play.
Soccer	PAGE 78	JUMPING CLK?	If you have selected the 1/10th Sec Clk option listed above, this option moves digits representing seconds left of the colon in the last minute of play. Tenths of seconds move to the right of the colon.

Sport	Page	Questions	Description
Soccer (cont.)	PAGE 78	AUTO HORN?	Programs the control to sound the horn for five seconds at the end of a period.
Soccer	PAGE 79	T.O. TO SCBD?	Allows the timeout timer to appear on the scoreboard.
Soccer	PAGE 79	CLOCK SET TO?	Sets total minutes of game period.
Soccer	PAGE 79	BREAK SET TO?	Sets total minutes of break period.
Soccer	PAGE 79	O.T. SET TO?	Sets total minutes of overtime period.
Soccer	PAGE 80	T.O. TIMER TO?	Sets total seconds per timeout.
Soccer	PAGE 80	#OFTOLS 1 TO 9?	Sets total number of timeouts allowed.
Volleyball	PAGE 85	COUNT DN. CLK?	Specifies whether the clock counts up or down.
Volleyball	PAGE 86	1/10 SEC. CLK?	Displays tenths of seconds in the last minute of play.

Sport	Page	Questions	Description
Volleyball (cont.)	PAGE 86	JUMPING CLK?	If you have selected the 1/10th Sec Clk option listed above, this option moves digits representing seconds left of the colon in the last minute of play. Tenths of seconds move to the right of the colon.
Volleyball	PAGE 87	AUTO HORN?	Programs the control to sound the horn for five seconds at the end of a period.
Volleyball	PAGE 87	T.O. TO SCBD?	Allows the timeout timer to appear on the scoreboard.
Volleyball	PAGE 87	CLK. SET TO?	Sets total minutes of game period.
Volleyball	PAGE 88	O.T. SET TO?	Sets total minutes of overtime period.
Volleyball	PAGE 88	T.O. TIMER TO?	Sets total seconds per timeout.
Volleyball	PAGE 88	#OF TOLS 1 TO 9?	Sets total number of timeouts allowed.
Track	PAGE 91	CONTINUE?	No sport-specific settings to select. Proceeds directly to "Quit."

Sport	Page	Questions	Description
Baseball (cont.)	PAGE 99	1 PRESS BSO?	Allows you to increase the ball, strike and out values with a press of the numeric key.
Baseball	PAGE 101	COUNT DN. CLK?	Specifies whether the clock counts up or down.
Baseball	PAGE 101	1/10 SEC CLK?	Displays tenths of seconds in the last minute of play.
Baseball	PAGE 101	JUMPING CLK?	If you have selected the 1/10th Sec Clk option listed above, this option moves digits representing seconds left of the colon in the last minute of play. Tenths of seconds move to the right of the colon.
Baseball	PAGE 102	AUTO HORN?	Programs the control to sound the horn for five seconds at the end of a period.
Baseball	PAGE 102	HOUR CLOCK?	Times a game or event for a period of hours.
Baseball	PAGE 102	CLOCK SET TO?	Sets total minutes of game period.
Lacrosse	PAGE 110	COUNT DN. CLK?	Specifies whether the clock counts up or down.

Sport	Page	Questions	Description
Lacrosse (cont.)	PAGE 110	1/10 SEC. CLK?	Displays tenths of seconds in the last minute of play.
Lacrosse	PAGE 111	JUMPING CLK?	If you have selected the 1/10th Sec Clk option listed above, this option moves digits representing seconds left of the colon in the last minute of play. Tenths of seconds move to the right of the colon.
Lacrosse	PAGE 111	AUTO HORN?	Programs the control to sound the horn for five seconds at the end of a period.
Lacrosse	PAGE 111	T.O. TO SCBD?	Allows the timeout timer to appear on the scoreboard.
Lacrosse	PAGE 111	CLOCK SET TO?	Sets total minutes of game period.
Lacrosse	PAGE 112	BREAK SET TO?	Sets total minutes of break period.
Lacrosse	PAGE 112	O.T. SET TO?	Sets total minutes of overtime period.
Lacrosse	PAGE 112	T.O. TIMER TO?	Sets total seconds per timeout.
Lacrosse	PAGE 112	#OFTOLS 1 TO 9?	Sets total number of timeouts allowed.

5. When you see the prompt below, press YES if you want to accept the new settings and exit PROGRAM MODE. Press NO to select a different sport or go through the questions again.

```
- CHANGE SPORT -  
QUIT? Y/N
```

Saving a configuration

Before returning to normal operation you will be asked to enter a name for the configuration you just entered. The name can be up to 16 characters long.

1. Respond **YES** to QUIT. You will see a portion of the alphabet on the top line of the LCD. The bottom line will read, ENT.CONFIG.NAME.
2. Use the **4** (back) and **6** (forward) keys to move the cursor through the alphabet on the top line until it is under the letter you want.
3. To select a specific letter, press the **5** (next) key.
4. Continue entering letters.
5. Press **ENTER** when name is complete.

The MP-70/50 control will hold up to six different configurations. (See [“LOADING AN EXISTING CONFIGURATION” ON PAGE 207](#) to learn how to load a configuration.) If all six locations are full, you will be asked if you would like to overwrite one of the existing configurations. If you respond **YES**, you can then select the one you want to replace.

To save and use a configuration without naming it, press and hold the **SHIFT** key and press **CLR/ESC**. The control will be set for the configuration just entered, but the configuration will not be available on the recall list.

Always reset the control for a new game after changing any of the **SYSTEM SETTINGS** or **CHANGE SPORT** settings. Follow instructions under [“NEW GAME” ON PAGE 22](#).

Changing keypad insert

After selecting a different sport, you may also need to change the keypad insert. Follow these steps:

1. Locate the pull tab at the far left of the keypad. This tab allows you to remove the insert currently in use.
2. Pull the tab to the left to remove the insert.
3. Locate the insert you want to use. The names of supported sports appear on the tab edge of each insert.
4. Slide the insert into the slot at the left end of the MP-70/50.



Note: There is a pocket on the inside lining of your control case for storage of your keypad inserts. When an insert is not in use, store it in this pocket to prevent loss.

The chapter titled [“COMMON FUNCTIONS” ON PAGE 13](#) discusses certain functions of the MP-70/50 that are common to all sports. In subsequent chapters, you will learn to use the MP-70/50 in specific sports applications.

19

Troubleshooting

If the problem you are experiencing fits a description below, try the solutions suggested. If you need additional help, see [“CONTACTING THE HELP DESK” ON PAGE 6](#).

Nothing appears on the scoreboard

Verify the following:

- The MP-70/50's power cord is connected to a 120-volt grounded outlet as instructed in [“IMPORTANT PRECAUTIONS” ON PAGE 8](#).
- Power is reaching the outlet.



- TRANS-LUX -
MP-70, VER. 2.00

- When you turn on the MP-70/50, the start-up message, as shown above, appears on the LCD display (the version number may vary). If the LCD display is blank, try replacing the fuse on the back panel of the MP-70/50 with a new, properly-rated fuse.
- The scoreboard is properly connected to the MP-70/50, as instructed in [“SETTING UP THE MP-70/50” ON PAGE 9](#).
- Power to the scoreboard is turned on.

If you are using a wireless MP-70/50, make sure that these statements are true.

- The antenna is in its full upright position.
- The CHANNEL and RADIO TRANSMIT mode switches are set correctly as instructed in [“WIRELESS OPTION” ON PAGE 125](#).
- You are following the operating guidelines discussed at [“GENERAL WIRELESS OPERATING GUIDELINES” ON PAGE 136](#).

Scoreboard does not respond

If portions of the scoreboard do not respond, or the scoreboard otherwise does not behave as expected, verify the following:

- All system settings are correct as explained at [“PROGRAMMING THE SYSTEM SETTINGS” ON PAGE 151](#).
- The proper scoreboard type and data format are selected.
- Your scoreboard supports the selected sport.

20

Segment Timer Operation

Purpose of the Segment Timer

When you want to put your team through a practice drill you can use the Segment Timer feature to keep track of those drills, and any breaks in between.

You can program times for both training intervals, called segments, and breaks. If you desire, the MP-70/50 can run up to 99 different segments, and a corresponding number of breaks.



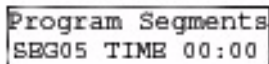
Note: Scoreboard type 32 does not currently support the Segment Timer feature.



Note: If you wish to use the Segment Timer and are running baseball, and you are using Scoreboard type 39, you must not select At-Bat when you are changing sports (SEE “INDICATING THE TEAM AND PLAYER AT BAT” ON PAGE 105. of the Baseball chapter, and SEE “SETTINGS FOR BASEBALL BOARD TYPES 34 OR 39” ON PAGE 155. in the Systems Settings chapter). Nor should you select Pitch Speed (SEE “PITCH SPEED (BOARD TYPES 34 & 39)” ON PAGE 156.) in Systems Settings.

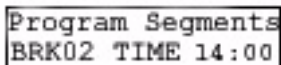
Program Mode for Segment Timer

To program the Segment Timer, press down the **SHIFT** and **2** keys together while turning on the MP-70/50. You will see a screen display on the LCD, similar to the one shown below.



```
Program Segments  
SEG05 TIME 00:00
```

Use the numeric keys **0-9** to enter your selected times for segments and breaks. The first two digits signify minutes, and the remaining two digits signify seconds. Press **ENTER** to set the time and automatically advance to the corresponding break time entry screen, an example of which is shown below.



```
Program Segments  
BRK02 TIME 14:00
```

- To increase one numeric increment of either Break Times or Segment Times, press **+1**.
- To decrease one numeric increment of either Break Times or Segment Times, press **-1/BLANK**.
- To switch from Segment Times to Break Times (or from Break Times to Segment Times), press **+2**.



Note: If you wish to program the Segment Timer to stop at the end of a sequence, simply enter a time of 00:00 for the stop segment while you are in Program Mode.



*Note: If you make an error while making a time entry, press **0** until the time shows 00:00 again, and then re-enter the correct time.*

When you have entered your correct times for the Segment Timer, exit the Program Mode for Segment Timer by pressing the **SHIFT** and **ESC** keys at the same time.

When you do so, you will see a question that asks, BLANK COUNTING? If you select this feature, the clock will not show the Segment countdown, but you will still be able to watch the countdown on the MP-70/50's LCD screen.

Enter **4/YES** if you want to blank the counting, so that it does not appear on the scoreboard. Enter **6/NO** if you want the countdown to appear on the scoreboard.

```
Program Segments  
Blank Counting?
```

Next, the LCD screen displays a question that asks, INCREMENT SEGMENTS#? You have the choice of either counting segment numbers up or down. Enter **YES** if you want to increment (count up) the segment numbers, and **NO** if you want to decrement (count down) the segment numbers.

```
Program Segments  
Inc. Segments#?
```

Last, the LCD screen displays a question that asks, "Seg. (Segment) Timer Mode?"

- Press **YES** to return to the Segment Timer operations.
- If you press **NO**, the MP-70/50 returns to the standard scoreboard timing operations.

A rectangular box representing an LCD screen. The text inside is arranged in two lines: "Program Segments" on the top line and "Seg.Timer Mode?" on the bottom line. The text is in a monospaced, uppercase font.

Running Segment Mode

Activate the Segment Timer

To run the Segment Timer, press and hold down the **2** key and simultaneously turn the control on. The LCD screen will display a screen similar to the one below.

```
SEG01↑TIME0 0:50
SEGMENT NO. 01
```

Now that you have activated the Segment Timer, the MP-70/50 will run in Segment Timer mode until you return it to the standard Scoreboard Timer Mode. When you turn the MP-70/50 control on if it has been activated to run the Segment Timer, it will display a screen similar to the one shown below:

```
SEG01↑TIME0 0:48
SegmentTimerMode
```



*Note: To return to the normal mode of operations, simply press and hold down the **2** key again and power on the control, the same way you did to enter Segment Timer.*

Segments


When you run the MP-70/50 in Segment Mode, the upper left side of the LCD screen displays the letters SEG. On the LCD screen, an arrow points up if the segment numbers count up, and points down if the segment numbers count down.

```
SEG01↑TIME0 0:50
SEGMENT NO. 01
```

Use the **+3** key to reverse the direction that the segments and/or breaks count.

The segments and breaks either:

- Increment (**Inc.**), meaning that they count up (example: 1,2,3,4); or,
- Decrement (**Dec.**), meaning that they count down (example: 4,3,2,1).

Flip the **TIME IN** switch to start or stop the Segment Timer. When the timer is off, the LCD will display the Time Out icon: 

The Segment Number displays on the **HOME SCORE** of the scoreboard.

When the final five seconds of the Segment begins, the Segment Mode displayed on the scoreboard will begin flashing rapidly. If your scoreboard is equipped with a horn, at the end of a segment, the horn sounds once, for one second.

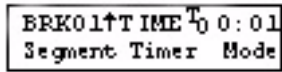


*Note: If you want to change the starting number of your Segment Mode, press the **HOME SCORE** button, key in a different beginning Segment Mode number, and press **ENTER**. Your Segment Timer will now start with the number you just entered.*

Breaks

Breaks have the same number as their corresponding segment.

When you run the MP-70/50 in Break Mode, the upper left-hand side of the LCD screen displays the letters BRK, as shown below.



The image shows a rectangular LCD screen with a black border. The text on the screen is arranged in two lines. The top line reads "BRK01↑TIME 0:01" and the bottom line reads "Segment Timer Mode". The text is in a monospaced, uppercase font.

If you set the Break Time to 0:00, the MP-70/50 will ignore the break time, and will move on to the next segment.

During the Break Time counting cycle, the Home Score digits flash. If your scoreboard is equipped with a horn, at the conclusion of the break, the horn sounds twice.

Exiting Segment Timer

To return to the standard Scoreboard Mode, simply press and hold down the **2** key again and power on the control, the same way you did to enter Segment Timer.

Designing segment training intervals

Trans-Lux Fair-Play recommends that the Segment Timer option of your MP-70/50 control is best used in conjunction with a training schedule. By creating a training schedule, you can gain an idea of what exercise groups will be done during the practice, the order in which they will occur, the amount of time devoted to each one, and how much of a rest break (if any) to give athletes between each exercise interval. The creation of such a training schedule makes programming the segment timer easier. The following chart illustrates what a typical training schedule might look like for a football practice.

GROUP	DURATION	EXERCISES
FORM RUNNING	15 MINUTES	3/4 JOG
		SKIPPING CARIOCA
2-minute break		
SPRINTS	20 MINUTES	SIDELINE SPRINTS LINE SPRINTS
2-minute break		
CONE FOOTWORK	15 MINUTES	QUICK FEET
		HARD CUT CONE RUN
2-minute break		
INNERTUBES	15 MINUTES	
2-minute break		
PLYOMETRICS	15 MINUTES	LUNGES
		KICKS JUMP TUCKS
		FROG SQUAT BEAR CRAWL
GRASS DRILLS	20 MINUTES	ROLLS HITTING
WEIGHT TRAINING	30 MINUTES	

21

Test Mode

This chapter will help you operate the MP-70/50 control in a special TEST mode in order to verify that all lamp circuits are functioning properly. If you need additional help, contact the Trans-Lux Help Desk as instructed at ["CONTACTING THE HELP DESK" ON PAGE 6](#).



Note: TEST mode is not supported on indoor TeleLite® models or on high-voltage outdoor models.

Before entering TEST mode, program your MP-70/50 control for your specific board type. See ["PROGRAMMING THE SYSTEM SETTINGS" ON PAGE 151](#). If you are using the wireless option, a good idea data link connection should be verified before attempting to use TEST mode.

Entering TEST mode

1. Turn off the control.
2. Wait 10 seconds.
3. Hold down the **8** key while turning the control back on. The bottom line of the LCD will display TEST mode.

Each digit on the scoreboard, individually and in succession, will start counting from 0 to 9 and then display the number 8. This cycle begins with driver circuit 1 of pack 1 and exercises all circuits on the scoreboard. The rate of counting is approximately three-tenths of a second for each displayed number. This process will continue until all digits on the scoreboards have counted and are displaying the number 8.

At this point the fully illuminated board will hold for approximately three seconds. During that time the horn will sound for a brief period. At the end of the three seconds the scoreboard will blank and start again at the beginning, continuing to cycle as described above.

Exit TEST mode

To exit, turn the control off. The MP-70/50 control will automatically return to normal operation the next time it is turned on.

Team name testing

If you have electronic team name areas on your scoreboard, TEST mode will also test those areas.



Note: It is important to have power applied to the scoreboards and have the data cable attached before entering TEST mode.

When you enter TEST mode, a special signal is sent to the Team Name electronics. This signal is only sent once. TEST mode will then test the lamps within the matrix by running a moving horizontal line.

During normal operation, if you want to test your team name areas only, you can manually enter the "TEST" for the home team name. This, as in standard TEST mode, will cause a moving horizontal line of lamps to be displayed in both team name areas. To stop this mode, you need to re-enter your home team name only.

22

Loading an Existing Configuration

This chapter will help you load configurations on your MP-70/50 control. Loading a configuration programs all settings in both SYSTEM and SPORT levels. By loading the existing configurations on your MP-70/50 you can change the control settings without going through the system and sport setting prompts each time you change sport or venue.



Note: See [“SAVING A CONFIGURATION” ON PAGE 190](#) in this manual for information on how to create and save your own configurations

Enter load configuration mode:

1. Turn off the MP-70/50
2. Press and hold the **3** key while turning on the MP-70/50.

```
LOAD SETTINGS  
LOAD CONFIG? Y/N
```

3. Press **YES** to continue. Press **NO** to exit.



Note: If no configurations are in memory, the bottom line of the LCD will show NONE TO LOAD and return to normal operation.

```
THIS CONFIG? Y/N  
MENS BASKETBALL
```

4. The bottom line will prompt you with the name of the first available configuration. Press **YES** to select the configuration, or **NO** to continue scrolling through the available configurations.

The configuration you select will program all settings in system and sport levels. In this way you can change the MP-70/50 setting quickly and easily.

If you need additional help, contact the Trans-Lux Help Desk as instructed at ["CONTACTING THE HELP DESK" ON PAGE 6](#).

23

Documentation change request

Please give us your input!

In an effort to provide you with the most accurate, up-to-date information possible, Trans-Lux/Fair Play has provided this form, which you can use to request any changes or updates that you think is necessary to this User Guide.

Please fill out this form, include the location of the requested change, and provide detailed comments so that we can better serve you.

Mail, or FAX this form to:

Trans-Lux/Fair Play
Attn: Documentation Department
1700 Delaware Ave.
Des Moines, IA. 50317
Fax: 515-285-3364

(Please include Chapter title, and heading, if applicable, and the page number shown on hard copy printout).

User:

Date of requested change:

MP 70 or MP-50?

Wireless/battery options?

Location of requested change:

Requested change, and reason for request:

About this guide

This is intended to be used as a portable document that you can use during sporting events to program your MP-70/50's systems settings and sports-specific information. Remember that these settings are stored in your control's permanent memory, and under normal circumstances, you should not have to change these settings.

Programming System Settings

Scoreboard type

Enter the number of your scoreboard. To find the correct number, consult the "Systems Settings" chapter in the MP-70/50 manual.

MP-69 data output, Conn 3&4 MP-69 data output

Enter **NO** if your control uses the MP-70 data format. Enter **YES** if it uses MP-69 data. Consult the "Systems Settings" chapter to determine your control's format.

Clock at timer

If you pressed **YES** to the question above, you will be given this prompt. Press **YES** if you are using shot timers with a built-in game clock. Otherwise, press **NO**.

Radio at timer

Again, if you pressed **YES** to the "Conn..." question above, and you are using the wireless option, this question will appear. If you are using wireless shot/field timers, press **YES**; otherwise, press **NO**.

Team names

If you are using the MP-70 data format, you will see this prompt. Press **YES** if your scoreboard can display team names and you wish to enter these, otherwise, press **NO**.

24-hour time of day clock

Press **YES** for a 24-hour clock, or **NO** for a 12-hour clock.

Further wireless system settings prompts

You will see these prompts below if you have a wireless control:

Hipower Transmit

Press **YES** for full-power radio transmission; press **NO** for transmission at a reduced power rate. (Normally, you should select **YES**).

All scoreboards

Press **YES** to put the radio transmitter in ALL SCOREBOARDS mode; press **NO** to put the transmitter in SELECT mode.

Select channel

Enter your channel number (0 to 15), and press **ENTER**.

Shortcuts

Choosing/changing a sport

Power on + **ENTER**.

Programming system settings

Power on + **0**

Load configuration

Power on + **3**

Common sports selection questions

Change sport - Continue?

Pressing **NO** will allow you to keep the sport you have selected, and to begin programming sport-specific settings.

Countdown clock

Press **YES** if you want the clock to count down, or **NO** if you want the clock to count up.

1/10th second clock

Press **YES** if you want the clock to display tenths of seconds in the last minute of play. You cannot use this setting if the clock is counting up.

Jumping clock

Available only when you have selected the 1/10th of second clock. If you choose jumping clock, the digits representing seconds will move to the left of the colon in the last minute of play, and tenths of seconds appear to the right of the colon.

Auto horn

Pressing **YES** will program the control to sound the horn for five seconds at the end of each period. Press the **AUTO HORN** key to turn this feature on or off.

Timeout to scoreboard

Press **YES** if you want the timeout timer to appear on the scoreboard. Pressing **NO** will only allow the timer to appear on the MP-50/70's LCD display.

Clock set to

Enter the total minutes of the game period.

Overtime set to

Enter the total minutes of the overtime period.

Break set to

Enter the total minutes of the break period.

Timeout timer set to

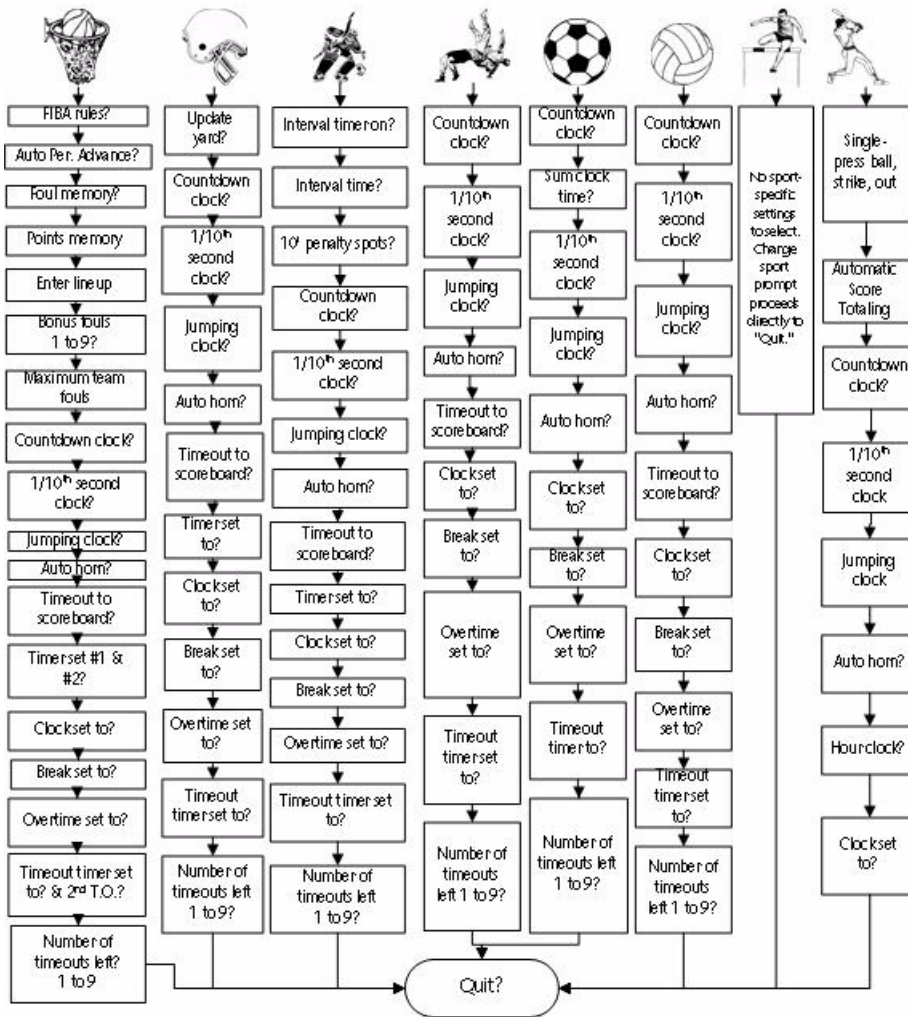
Enter the total seconds for a timeout.

Number of timeouts left - 1 to 9

Enter the number of timeouts allowed, either for a game or for a half.

Selecting and Changing Sports

Note: the following chart shows each prompt you will see if you select Yes for each and every question. You may not see all of these prompts if you do not select Yes. For a more detailed explanation, see the individual sports chapter in your UserGuide.



Wireless segment

Setting Up Wireless:

Locate the MP-70/50 wireless control in a place where it and the receiving device is within range. The maximum range for indoor scoreboards is 300 feet; for outdoor scoreboards it is 1,200 feet. Be sure and rotate the MP-70/50's antenna to the full upright position when using the controller. Otherwise, you may reduce your control's transmission range.

- *Ideally, you should not have to change the MP-70/50 wireless settings; however, the additional information is provided, if you need to verify that the control is communicating with the scoreboard.*

Selecting transmission modes

The MP-70/50 can operate in one of two (synonym for transmission mode). Select one of the following two transmission modes:

- **SELECT CHANNEL mode (SEL)** - A mode where you can operate more than one display with more than one control, simultaneously, without them interfering with one another.
- **ALL SCOREBOARDS mode (ALL)** - A mode where you can synchronize multiple scoreboards to one control.

The data link can operate in either:

- **HIGH POWER mode** - A mode where your control broadcasts a signal to the display at its maximum available power output. This mode is preferable for most circumstances.
- **LOW POWER TRANSMIT mode** - Used for system testing.

Viewing your settings

To view the radio transmitter setting of your control, hold down the **SHIFT** key and press the **BAT/RF** key. If you have a battery-operated control, hold down the key a second time to display your settings (the first screen you will see will be your percentage of power remaining in your battery).

Selecting and changing channels

You can also change your channel setting by turning the control off, hitting the **SHIFT+9** keys, and then turning it back on again. You will see a series of three questions, the last of which will ask you to select a channel. *Make sure that the channel you pick for the control is the same that you have selected for the radio receiver in your scoreboard.* Keep in mind that selecting channels 0, 14 (E) or 15 (F) will disable the radio transmitter in either the control or the scoreboard.

Verifying channel selection and signal lock

Your channel should display on the scoreboard for 30 minutes after you have powered it up. After this, portions of the LED should display in sequence. If you cannot tell what channel your scoreboard is set up to receive, you will need to find its signal lock. Do so with the following sequence:

- If you are running an indoor display, first set your control to ALL SCOREBOARDS mode. Then follow the instructions below.
- If you are running an outdoor display, you can verify its signal lock by holding the **SHIFT** key, then pressing the **9** key. Skip the first two prompts, until you get to the SEL CHANNEL? prompt. Then, enter all of the possible channel numbers, starting with channel 1, and working up to channel 13.

24

Warranty

Fair-Play

A TRANS-LUX COMPANY

TRANS-LUX MIDWEST CORPORATION
d.b.a. Fair-Play Scoreboards

LIMITED SCOREBOARD WARRANTY

Fair-Play provides a limited five-year warranty when its permanently mounted scoreboards and scoreboard controllers are operated and maintained according to the owner's instructions furnished with the equipment. Such limited warranty is two years for portable scoreboards. This warranty covers all electronic components, including LEDs, for five or two years as applicable from the date of invoice that prove to be defective in material or workmanship. Our #161 and #655-type indoor lamps are warranted on a ten-year factory exchange basis from the date of invoice.

Warranted for one year are mechanical control panel switches, connectors, horns and visual goal indicators. Wireless control components are warranted for two years. Wireless control devices even if not defective may not function reliably in certain environments or otherwise due to outside causes beyond Seller's control, including but not limited to cell phones or portable computers. In the event it is determined a wireless device during the ninety (90) day period following shipment does not function in accordance with its specification without repeated errors or is otherwise consistently unreliable, and Seller determines repair or replacement thereof is not likely to improve performance, at Purchaser's request, upon return to Seller postage prepaid in like new condition within such time period, Seller's sole obligation shall be to refund the entire purchase price of such device. Thereafter Seller's sole obligation shall be to repair or replace, other non-wireless defective components for the balance of the warranty period without responsibility or liability for claims for unreliable performance not due to defects. Batteries, battery packs and battery recharging equipment are warranted for thirty (30) days, except for defects arising from misuse, abuse, negligence or other exclusions set forth below. In no event will Fair-Play have any obligation for any damage caused by defective batteries, battery packs and battery recharging equipment. Also warranted for 30 days are outdoor portable scoreboard carts.

Fair-Play's sole obligation during the applicable warranty period is to repair or replace any defective items. Defective assemblies or components are to be returned postage prepaid to Fair-Play's service center, after obtaining a return authorization number, for repair or replacement at no cost to the owner during the applicable warranty period. Replacement parts may be either new or like-new. Return shipping costs after repair will be paid by Seller except for overnight, express or special shipping costs which shall be paid by Purchaser. Excluded from this warranty are fuses, major components provided by other manufacturers including, but not limited to, computers, rotating signs, power distribution panels, disconnect switches and components of rear-illuminated or lighted signs. The other manufacturer's warranty will apply to such components. Also excluded from this warranty are electronic signs or message centers and related controls. These items are covered by their own specific warranty. The warranty will be suspended as to units for which the purchaser is in default of payment in accordance with the agreed Terms of Payment. In the event the purchaser remits the full amount due in immediately available funds on a unit for which the warranty was suspended, the warranty will be reinstated for the remaining balance of the original warranty period without allowance for the time period of the suspension. The warranty does not apply to units that have been stolen.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES OF SELLER, EXPRESS OR IMPLIED, AND, EXCEPT TO THE EXTENT HEREIN PROVIDED, SELLER DOES NOT MAKE ANY WARRANTY WHATSOEVER INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE OR PURPOSE.

Fair-Play shall not be liable for any incidental, special or consequential damages nor any other loss that may arise in connection with its warranted equipment or any claims under this warranty. (Individual states may have limitations on the length of implied warranties.)

This warranty does not cover shipping damages or problems which result from improper installation of your equipment. (Promptly inspect shipment for visible or concealed damages and report immediately to the delivering carrier.)

Under no circumstances shall this warranty apply if the warranted products have been subject to abuse, misuse, neglect, sabotage, acts of terrorists, negligence, accident, or any casualties or abnormal conditions, including without limitation fire, civil disorders, war, flood, lightning or acts of God. Nor does this warranty cover labor or damage resulting from, or problems caused by, any repair, alteration, modification, or adjustment of the warranted scoreboards or components not performed by Fair-Play.

This warranty extends only to the original end user purchaser of the warranted products, and is not transferable. For information on extended warranties contact your Fair-Play dealer. In the event authorized Fair-Play dealers make extensions to or provide additional service for Fair-Play products, Fair-Play assumes no liability therefore other than the specific warranty set forth above in this Limited Warranty.

Trans-Lux Midwest Corporation

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