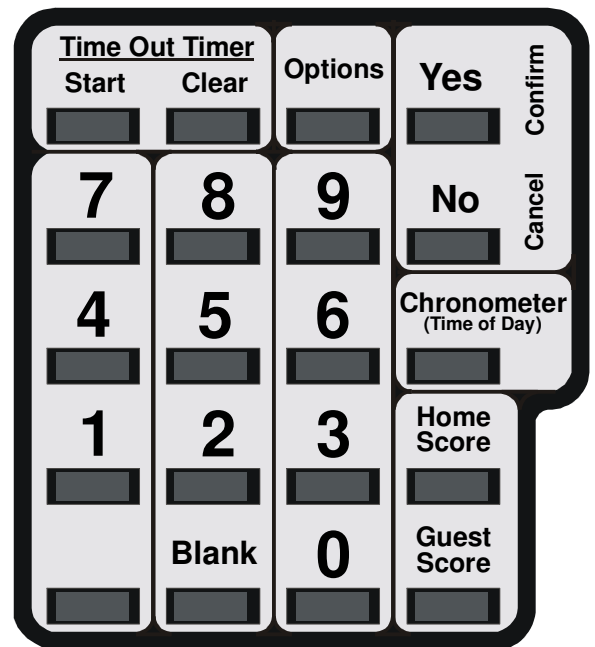
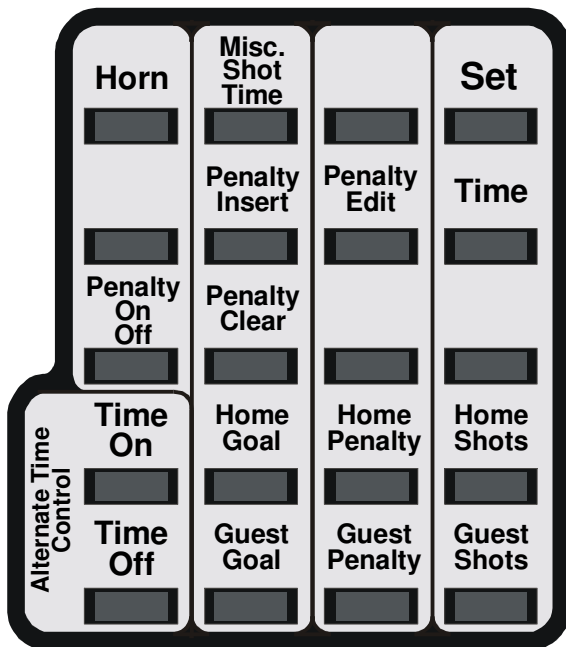


Scoreboard Operator's Instructions

MPC Control

Model Code 871 Hockey



Some features on the keyboard overlay may not be included on the particular model being operated.



Since 1934

Retain this manual in your permanent files

These Instructions are for the Following Models:

LED models:

4707
4710
4711
4730
4750
4755
4760
4765
9710

LED models:

4507
4510
4510-D
4511
4511-D
4530
4550
4550-D
4555
4555-D
4560
4565
4570
4620
4621
4625
9510
9515

Incandescent models:

4407
4410
4411
4430
4440
4445
4450
4455
4460
4465
9410

Thank You

Thank You for choosing NEVCO. We appreciate your business.

The following instructions will help you become familiar with the operation and features of the scoreboard system.
Please take a few minutes to study this manual, and to practice with the control.

If you ever have any questions or comments, please call or email us.

— IN USA —	— IN CANADA —
<p>NEVCO, Inc. 301 East Harris Avenue Greenville, IL 62246-2151 USA</p> <p>Telephone: 618-664-0360 Fax: 618-664-0398 TOLL-FREE 800-851-4040 (From all 50 states and Puerto Rico)</p>	<p>NEVCO, ULC 107 Forestview Rd., P.O. Box 2629 Orillia, ON L3V 7C1 Canada</p> <p>Toll Free: 800-461-8550 Fax: 705-325-8891</p>
<p>Website: www.nevco.com Email: info@nevco.com</p>	

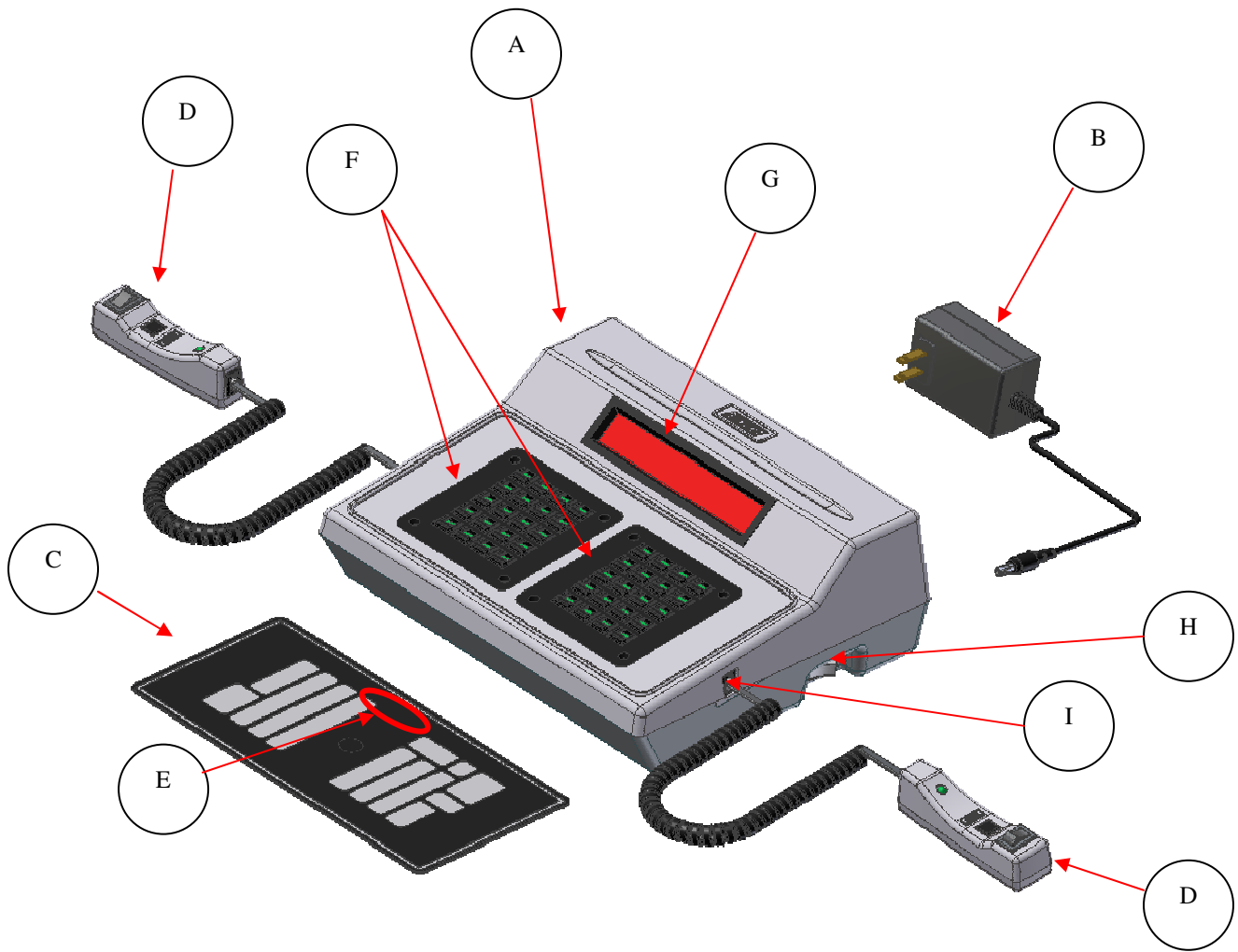


Figure 1 – MPC Control (front view)

A.	MPC Control	Can operate scoreboards for a wide range of sports and features.
B.	Power Supply	9 V DC (included with the control)
C.	Overlay	Fits on top of control to label the keys (included with system)
D.	Hand Held Switch	A TCS-5 time control switch is included with each control. Other switches are included with the accessories they operate.
E.	3 character Model Code location	This code sets up the control for your scoreboard model and sport
F.	Keypads	Left and Right (20 keys each)
G.	16 character display	Bright LED for better visibility
H.	Power On / Off switch	Removes power from the control only (does NOT turn power off to scoreboard)
I.	Jack for hand held switch	One on each side of control (use either jack for any Hand Held switch)

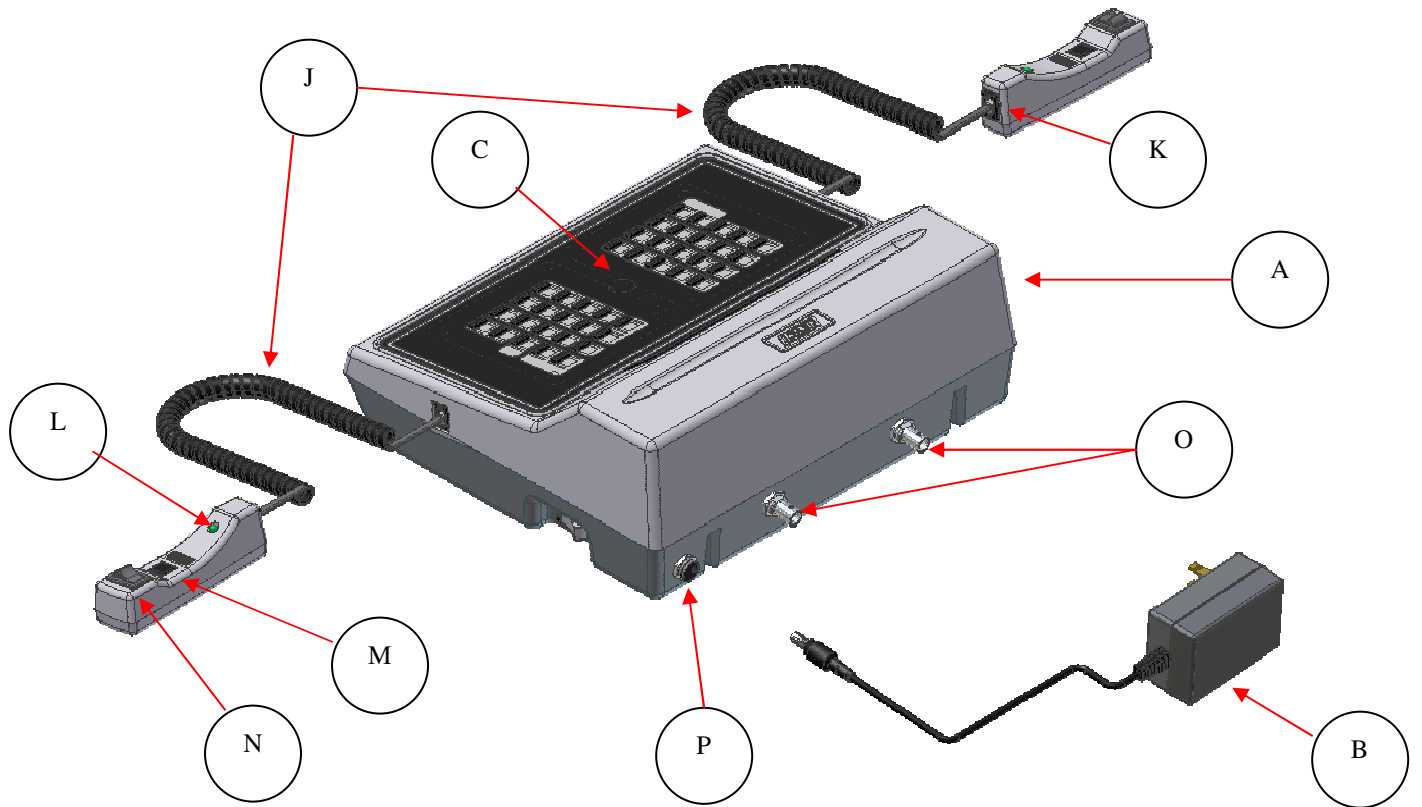


Figure 2 – MPC Control (rear view)

A.	MPC Control	Universal – to change sports, change the Overlay and enter the new Model Code.
B.	Power Supply	9 V DC (included with control)
C.	Overlay	For your scoreboard model (included with system)
J.	Coiled Cord	Stretches to over 4 ft. (included with switch)
K.	Socket for coiled cord	Makes it easy to replace the cord
L.	LED test indicator	Verifies that the Hand Held switch is working
M.	Remote push button switch	Function depends on type of Hand Held switch (on TCS-5 – sounds the horn)
N.	Remote rocker switch	Function depends on type of Hand Held switch (on TCS-5 – controls the time)
O.	Output to scoreboard	BNC connector for coax cable (use either or both as needed)
P.	Jack for power input	9 V DC

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START UP PROCEDURE

When you turn the control on, the traveling display prompts you to “***START WHERE TURNED OFF LAST?***”, “***GO TO A BOOKMARK?***”, or “***ENTER YOUR MODEL CODE***”. Answer YES, NO, or enter the 3 character model code on the overlay.

NOTE: Make sure the proper overlay for the scoreboard and sport or special function is in place on the control.

START WHERE TURNED OFF LAST?

If a power failure happens during a game, press YES to resume from the point the power failed. The control can detect when power is failing and save the current data. (If the time was running when the power failed it will continue running as soon as power is restored).

NOTE: Intended for recovery from a power failure only. To start a new game, enter the model code or go to a bookmark.

GO TO A BOOKMARK?

A bookmark makes a quick efficient way to start a new game or practice drill. If a bookmark has been saved for this activity, answer YES to the bookmark question. The control will prompt for the “***BOOKMARK #***”. Press the number of the bookmark you want to use (1 to 5). The control will load the configuration and data it had in it at the time the bookmark was saved.

ENTER YOUR MODEL CODE

To start a new game or procedure, be sure the proper overlay is installed on top of the control. Enter the 3 character model code located near the top center of the overlay.

NOTE: If your control does not have wireless capability:

The name of the Sport [HOCKEY] will be displayed briefly, then, the question ***DO YOU WANT TO USE PENALTY TIME OUT?*** (answer YES if you want to be able to stop the penalty timers from counting while the main time continues to count, or NO to force the penalties to always count when the main time counts. Then the time and the direction it will count [0:00.0 DN] will be displayed, and the scoreboard(s) will turn on.

NOTE: If your control does have wireless capability:

The name of the Sport [HOCKEY] will be displayed briefly.

The control will ask “***DO YOU WANT TO OPERATE WIRELESS?***”

If you answer **NO**:

The control will ask “***DO YOU WANT TO USE PENALTY TIME OUT?***”

Press YES if you want to be able to pause the penalty timers while the main time runs.

Press NO to disable the Penalty Time Out key..

The time and the direction it will count [0:00.0 DN] will be displayed, and the scoreboard(s) will turn on.

If you answer **YES**:

The control will prompt [SELECT A GROUP] then display the first group that is set up in the control. To see the next group name, press NO. When the desired group name is being displayed press YES.

The control will ask “***DO YOU WANT TO USE PENALTY TIME OUT?***”

Press YES if you want to be able to pause the penalty timers while the main time runs.

Press NO to disable the Penalty Time Out key.

The time and the direction it will count [***0:00.0 DN***] will be displayed, and the scoreboard(s) will turn on.

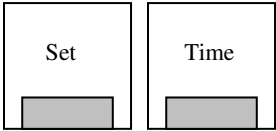
NOTE: If the control displays the message “***THERE ARE NO GROUPS DEFINED IN THIS SYSTEM KEY. TO CREATE A NEW GROUP USE MODEL CODE 618 WITH THE SYSTEM KEY MANAGEMENT OVERLAY***”, then, turn the control off and follow the instructions that came with the System Key Management Overlay with model code 618 to set up the groups as needed.

QUICK START GUIDE

With the scoreboard on and the control showing the time, you are ready to set the time and period for the first period of play.

[**0:00.0** **DN**]

Set the play clock to 8 minutes

Press  The control will show [**SET MM:SS.s**]

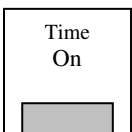
Press  The control will show [**SET 08:SS.s**]

Press  The control will show [**PERIOD 0**]

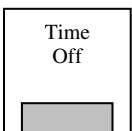
Press  The control will show [**8:00.0** **DN**]

You are now ready for the game to begin.

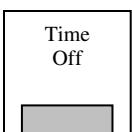
To start the clock

Press 

To stop the clock

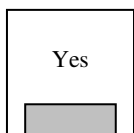
Press 

To silence the Auto Horn at the end of the period

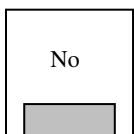
Press 

Please consult the following sections of this manual for more details, functions, and features.

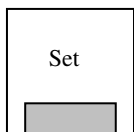
KEYBOARD FUNCTIONS



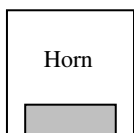
Use the **YES** key to respond to questions and to confirm data input.



Use the **NO** key to respond to questions and to cancel an operation.



Use the **SET** key ahead of a function key to initiate the direct entry mode or to change the settings in **OPTIONS**, **CHRONOMETER**, and **TIME OUT TIMER**, or to set the **TIME**, and other features. (For more details see the description for the function.)



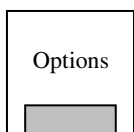
Press the **HORN** key to sound the scoreboard horn. Release the key to stop the horn.

The horn automatically sounds when the timer counts down to zero. (Auto Horn)

NOTE: The duration of the horn is limited to 4 seconds.

Press **SET** then **HORN** to disable or enable the **AUTO HORN**.

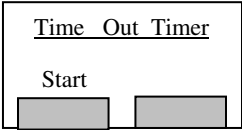
The control will prompt [**AUTO HORN ? (Y/N)**]. The default setting is auto horn on.



Press the **OPTIONS** key to see a scrolling report of the current system settings.

Press **SET** then **OPTIONS** to change the system configuration.

NOTE: See the section on **OPTIONS** for more details.



There are 10 TIME OUT Timers available. Timer 0 is preset to 30 seconds with a warning horn at 10 seconds.

Press **TIME OUT TIMER START**.

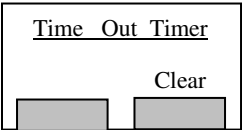
The display will prompt [**TIMER # (0-9)?**]

When you enter the desired number, the preset Time Out Time is displayed on the control, and on the scoreboard if set to do so, and begins counting down. When only the warning time remains, a warning horn sounds briefly (if set up). When the timer reaches zero, the horn sounds briefly again and the time begins counting up on the control. Any time the Main Time is turned on, the Main Time is restored to the display(s) and the Time Out Timer is canceled.

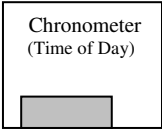
Press **SET**, then **TIME OUT TIMER START** to set up a TIME OUT TIMER.

The display will prompt [**TIMER # (0-9)?**] Enter the number of the timer to set up or overwrite. The control will prompt. [**SET MM:SS**] Enter the total length for the time out. The control will ask “**DO YOU WANT TO USE TIME OUT WARNING HORN?**” If you answer YES the control will prompt [**SET MM:SS**] Enter the warning time.

The control will ask “**DO YOU WANT TO DISPLAY TIME OUT ON SCOREBOARD?**”



Press **TIME OUT TIMER CLEAR** to cancel the currently active portion of the Time Out Time. (If the warning horn has not yet sounded, it will sound and the timer will continue from the warning time).



Pressing the **CHRONOMETER** key will cause the Time of Day to be displayed on the control. This key can be enabled so that when pressed it also displays the Time of Day on the scoreboard. **NOTE:** Pressing the TIME key or turning the time on will return to displaying the Main Time.

Pressing **SET**, then **CHRONOMETER** will enter the set up mode. The questions asked will depend on your system and its current configuration.

NOTE: Some scoreboard models do not support all settings or options.

Questions that the control may ask include:

DO YOU HAVE AN AUXILIARY TIME DISPLAY CONNECTED?

(**NOTE:** Auxiliary Time Display models include: 9410, 9510, 9405 and 9505).

DO YOU WANT TO DISPLAY CHRONOMETER TIME ON AUXILIARY TIME DISPLAY?

ENABLE CHRONOMETER KEY TO PUT CHRONOMETER TIME ON SCOREBOARD?

[KEY ENABLED]

DISABLE CHRONOMETER KEY?

[KEY DISABLED]

SET CHRONOMETER?

[SET HH:MM:SS]

NOTE: Once set, the accuracy of the Chronometer is maintained even while the control is turned off and disconnected.

TURN CONTROL OFF BUT LEAVE CHRONOMETER TIME

DISPLAYED? (Allows the control to be turned off, disconnected, and stored away in a safe location, while the scoreboard or auxiliary time display, or both, continues to display a running “time of day” clock.)

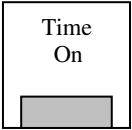
DISPLAY CHRONOMETER TIME ON ALL DISPLAYS? (Scoreboard(s) and auxiliary time display(s))

Follow the prompts. **NOTE:** If the display goes blank turn the control off to complete the process.

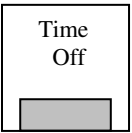
DISPLAY CHRONOMETER TIME ON AUXILIARY TIME DISPLAY? (Auxiliary time display only)

Follow the prompts. **NOTE:** If the display goes blank turn the control off to complete the process.

NOTE: For more help and examples see Appendix (Chronometer)



Press **TIME ON** To start the main time.

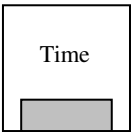


Press **TIME OFF** to stop the main time.

NOTE: The Time On and Time Off keys may also control other timers in the configuration.

NOTE: The Time On and Time Off keys are disabled if the hand held time control switch is plugged in to the control.

NOTE: To make these two keys active again, turn the control power off, disconnect the hand held time control switch, and restart the control. You may use “**START WHERE TURNED OFF LAST**”, if you wish.



Press **TIME** to recall the main time to the display. If other timers are in use, successive key presses will toggle among the main time and the other timers.

Press **SET TIME** to enter the Time and Period setting mode. The control will prompt **[SET MM:SS.s]**

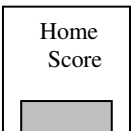
Enter the Minutes, Seconds, and Tenth Second as needed. Press YES to accept the time entered.

NOTE: Letters that have not been replaced with numbers will be replaced with zeros.

NOTE: Pressing NO will allow you to back up to make corrections or to abort without changing the time.

The control will prompt **[PERIOD 0]**

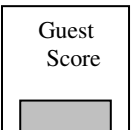
Enter the Period number or press NO to exit without changing the current data.



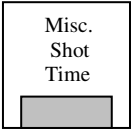
Press **HOME SCORE** to enter the home score ADD mode.

The control might prompt **[HOME 25+]**. In this example the current Home Score is 25 and the “+” indicates that the control is ready to add to the current score. Enter a single digit number or press NO or YES or another function key to abort and leave the score unchanged.

NOTE: You cannot subtract from a score. To correct a mistake use the SET key, then the HOME or GUEST SCORE key and directly enter the correct score (up to 199).



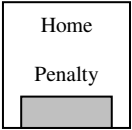
GUEST SCORE works the same way.



If you are using shot clocks, you can set the shot time to a specified number without affecting the original preset value.

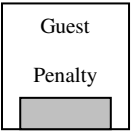
Press **SET** then **MISC. SHOT TIME** to enter this special mode.

The control will prompt [**SHOT TIME SS**]. Enter the special shot time, then press **YES** to confirm and send the new shot time to the shot clocks, or press **NO** to abort without changing the data.



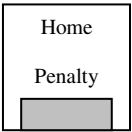
Press **SET** then **HOME PENALTY** to set up a penalty.

The control will prompt [**PEN MM:SS**]. Enter the penalty time (up to 19:59). Press NO to cancel, or YES to confirm.



The control will prompt [**H.PLAYER #**]. Enter the 2 digit player number (_0 to 99).

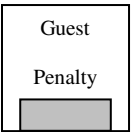
GUEST PENALTY works the same way.



Press **HOME PENALTY** to recall the first home penalty to the control.

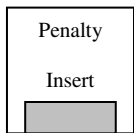
The control might show [**H 1 1:25 15**]. In this example home penalty 1 has 1 minute and 25 seconds remaining on player number 15. Each time you press HOME PENALTY, the next home penalty on the list will be recalled to the display on the control. After the last penalty on the list has been viewed, the list starts over.

NOTE: To exit, press YES, NO, or any function key.



GUEST PENALTY works the same way.

NOTE: While a penalty is displayed on the control, it can be modified with any of the three following keys:

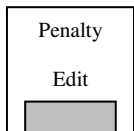


Press **PENALTY INSERT** to insert a penalty ahead of the displayed penalty.

The control will prompt [**INSERT (Y-N)**]. Press NO to cancel, or YES to confirm.

The control will prompt [**PEN MM:SS**]. Enter the penalty time (up to 19:59). Press NO to cancel, or YES to confirm.

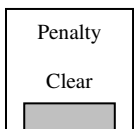
The control will prompt [**H.PLAYER #**]. Enter the 2 digit player number (_0 to 99).



Press **PENALTY EDIT** to edit the displayed penalty.

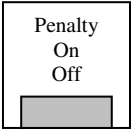
The control will prompt [**EDIT (Y-N)**]. Press NO to cancel, or YES to confirm.

The control will prompt [**PEN MM:SS**]. Enter the penalty time (up to 19:59). Press NO to cancel, or YES to confirm.



Press **PENALTY CLEAR** to clear the displayed penalty.

The control will prompt [**CLEAR (Y-N)**]. Press NO to cancel, or YES to confirm.



Press **PENALTY ON OFF** to toggle the penalty counters between run or stop.

The control will show [**PENALTY TIME OFF**] or [**PENALTY TIME ON**].

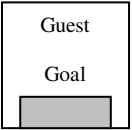
NOTE: The PENALTY ON OFF key is active only if you answered YES to “USE PENALTY TIME OUT” when the control was started.



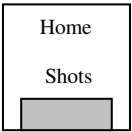
Press **HOME GOAL** to toggle the indicator on or off.

The control will show [**H.GOAL ON**] or [**H.GOAL OFF**].

NOTE: Each time the HOME GOAL Key is pressed, the status of the indicator changes.



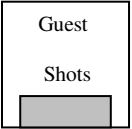
GUEST GOAL works the same way.



Press **HOME SHOTS** to enter the Home Shots ADD mode.

The control might prompt [**H.SHOTS 8+**]. In this example the current Home Shots is 8 and the “+” indicates that the control is ready to add to the current total. Enter a single digit number or press NO or YES or another function key to abort and leave the data unchanged.

NOTE: You cannot subtract, but you can use the SET key first, then directly enter the correct total (up to 99).



GUEST SHOTS works the same way.

OPTIONS

Many options are available for modifying the way the scoreboard system works. The questions the control will ask and their order depends on the current system and settings. Pressing the **OPTIONS** key starts a scrolling report of the current system settings. This report will continue to repeat until a key is pressed. To change a setting, press **SET OPTIONS** and use the YES (confirm) and NO (cancel) keys to work your way through a series of questions that is based on your system and available options. When all questions have been asked, the control returns to normal operating mode.

Note: press a function key to abort the set options mode early.

Set Options Chart

Do You Have An Auxiliary Time Display Connected? (this question may not always be asked)*	Y							
	N	Next Available Question						
Switch to (Dim or Bright)?	Y	Changes rightness level of Scoreboard						
	N	Next Available Question						
Use Aux Timer?	Y	Aux Timer To Count Down?	Y	Start and Stop with Hand Held Switch?	Y	SET HH:MM:SS	Display Aux Timer on Auxiliary Time Display? **	Y
			N	Start and Stop with Hand Held Switch?	N	SET MM:SS		N
	N	Next Available Question						
Display Chronometer on Auxiliary Time Display **	Y							
	N	Next Available Question						
Enable Segment Timer?	Y	SET MM:SS	Y	Another Segment?	Y	SET MM:SS		
					N	Display Segment Timer on Scoreboard?	Y	Displays Segment Timer instead of main time
							N	Displays Main time with Interval Horn
	N	Next Available Question				Y	Stops Time at Each Segment?	Y
N						Runs continuously		
Change Direction of Main Clock?	Y	Do You Want Clock to Stop at Specified Time?	Y	SET MM:SS				
			N	Next Available Question				
	N	Next Available Question						
Disable Tenth Sec?	Y							
	N	Next Available Question						
End Of Period To Turn Off Upon Setting The Time? (or) End Of Period To Stay On Until Time Is Started?						Y/N		
Set a Bookmark?	Y	Bookmark #?						
	N	Normal Operation Mode						

* **NOTE:** This question is asked only once for each time the control is started fresh by entering a model code. It may be asked from SET OPTIONS or from SET CHRONOMETER. The control needs to know this information in order to know what other questions to ask and how certain data should be handled.

** Questions will be asked only if you indicated that you have an Auxiliary Time Display connected.

The Set Options Menu

DO YOU HAVE AN AUXILIARY TIME DISPLAY CONNECTED?

The control will need to know if an auxiliary time display is connected as part of your system. The Auxiliary Time Display is used to display time (Main Time, Auxiliary Time or Time of Day). Auxiliary Time Display models include: 9410, 9510, 9405 and 9505.

NOTE: This question is asked only once for each time the control is started fresh by entering a model code. It may be asked from SET OPTIONS or from SET CHRONOMETER. The control needs to know this in order to know what other questions to ask and how certain data should be handled.

DO YOU WANT TO SWITCH TO DIM?

OR

DO YOU WANT TO SWITCH TO BRIGHT?

Answering YES will toggle the brightness level of the scoreboard.

USE AUX TIMER?

OR

SET AUX TIMER?

OR

TURN AUX TIMER OFF?

The control has a built in auxiliary timer that can be used for many purposes. It can be configured to count up or down and it can run continuously or only when the main time is running. It can be displayed on the control by pressing the time key twice in succession. It can also be configured to display on an auxiliary time display if one is part of your system. Some uses for the auxiliary timer include timing field or facility usage, or it can be used to determine how far into a game a certain event happened.

AUX TIMER TO COUNT DOWN?

Answering YES will setup the timer to count down (99 hours: 59 minutes: 59 seconds maximum).

NOTE: The auxiliary time display will show hours and minutes until the remaining time drops below an hour, then it will show minutes and seconds.

Answering NO will setup the timer to count up (59 minutes: 59 seconds maximum).

START AND STOP WITH TIME CONTROL SWITCH?

Answering YES will setup the timer to start and stop with the action of the same switch that controls the main time.

Answering NO will setup the timer to run continuously regardless of the switch position.

DISPLAY AUX TIME ON AUXILIARY TIME DISPLAY?

Answering YES will cause the aux time to be displayed on the auxiliary time display.

Answering NO will cause the auxiliary time display to continue displaying the main time or the time of day.

DISPLAY CHRONOMETER TIME ON AUXILIARY TIME DISPLAY?

Answering YES will cause the time of day to be displayed on the auxiliary time display.

Answering NO will allow the auxiliary time display to continue without change.

ENABLE SEGMENT TIMER?

A segment timer is a separate internal timer that automatically resets itself to the next time in a pre-determined list. When the time counts down to zero, the horn sounds and the next segment of time in the list is loaded and it continues to run. When the end of the list is reached, it starts over with the first segment and continues indefinitely. It is primarily used for practice drills.

An Interval Horn is a horn that sounds every time the main time is evenly divisible by the interval time. Its primary use is to signal when little league hockey teams should rotate to the court.

The Segment Timer can be set up for practice drills or to work like an interval horn.

For interval horn, enable the timer, set only the first segment, and do NOT display the segment timer on the scoreboard. During normal game play, a horn will sound each time the length of the segment elapses.

Enabling the Segment Timer will allow entry of the time for segment 01. Enter the minutes and seconds as desired then press YES.

ADD ANOTHER SEGMENT?

There can be as many as 40 segments in the segment list. When the end of the list is reached, the segment timer starts over with segment 01.

or

DISABLE SEGMENT TIMER?

Disabling the segment timer clears all segments and returns to normal operation.

NOTE: If you will want to use this configuration again, be sure a bookmark has been saved before disabling.

NOTE: If the segment timer has been displayed on the scoreboard, to return to normal operation it is necessary to turn the control power off and start fresh with a model code or from a bookmark.

or

EDIT SEGMENT TIMER?

The edit option allows you to review the segment list, shorten the list, extend the list, or change a segment's time.

NOTE: For more help and examples see Appendix (Segment Timer)

DISPLAY SEGMENT TIMER ON SCOREBOARD?

If you answer YES, the segment time is displayed instead of the main time and is started and stopped with the time control switches.

NOTE: To return to normal operation it will be necessary to turn the control power off and start fresh with a model code or from a bookmark.

Answering NO will cause the segment timer to act like an interval horn.

STOP TIME AT EACH SEGMENT?

If you answer YES, the time will stop at each segment and wait for TIME ON.

NOTE: If you are using a hand held time control switch, turn the switch off, then on.

or

ALLOW TIME TO RUN AFTER EACH SEGMENT?

NOTE: For more help and examples see Appendix (Segment Timer)

CHANGE DIRECTION OF MAIN CLOCK?

Toggles the direction the main clock runs.

CLOCK TO STOP AT SPECIFIED TIME?

A stop time may be set when the timer direction is changed to up count. When the clock reaches the stop time, the clock stops and the auto horn will sound if enabled.

If you answer YES, you are prompted for the stop time. Follow the prompts.

DISABLE .1 SEC. SHIFT TIMER?

During the last minute of count down time, the scoreboard switches to displaying the seconds and tenths of seconds.

Press YES if you want to turn off this feature.

NOTE: Once disabled the only way to restore it is to restart the control and enter the model code or go to a bookmark.

END OF PERIOD TO TURN OFF UPON SETTING THE TIME?

OR

END OF PERIOD TO STAY ON UNTIL TIME IS STARTED?

Allows you to choose when the EOP indicator will turn off.

SET A BOOKMARK?

A bookmark is like a picture or snapshot of all the data and configuration settings in the control. When you go to a bookmark, the control is restored to where it was at the time the bookmark was saved.

Bookmarks can be edited by going to the bookmark, making the changes needed, then saving the bookmark again using the same bookmark number or a different one.

Five separate bookmarks are available and each can be reused as desired.

If you try to save to a used bookmark, you will be warned and given a chance to abort the procedure.

NOTE: A bookmark cannot be saved while a timer is running.

TROUBLESHOOTING CHART

Problem	Cause	Solution
Cannot Save a Bookmark	Time is running	Turn time off before saving a bookmark
Horn does not sound when time has expired	Auto horn is turned off	Enable the auto horn (SET HORN YES)
Timer counts in wrong direction	Timer direction is set wrong	Use SET OPTIONS to change timer direction
Cannot subtract from score	Score keys will add only	Use SET then score key and enter the correct score directly
Time is counting but the period is wrong	Wrong period entered during setting time	Press SET TIME NO and enter the correct period number
Cannot clear Time Out Timer from scoreboard without sounding horn (teams are ready to play)	Clearing the Time Out Timer forces it to drop to the warning time which sounds the warning horn	Before the game, set up another Time Out Timer that does not have a warning time and does not display on scoreboard. --- interrupt the unneeded Timer with this one and then clear it.
Tenth second does not show on scoreboard	Main clock is counting up.	Tenth second will not show when main time is counting up
	Tenth second has been disabled	The control must be turned off and then restarted
	Time is above one minute	Be patient
CHRONOMETER will not display on scoreboard when I press CHRONOMETER	CHRONOMETER key is not enabled	Use SET CHRONOMETER to enable it
Aux time is displayed on the auxiliary time display, but it is not counting	Hours and minutes are being displayed. The display will change only once each minute	Minutes and seconds will be displayed during the last hour of remaining time
The Penalty Timers are Not Running	The Penalty Timers have been turned off	Press the Penalty On Off key
The End Of Period indicator does not turn off when I set the time for the next period	EOP indicator is set to remain on until the time switch is turned on	Use SET OPTIONS to change this setting

If the problem persists please contact the Nevco Service Department.

800-851-4040

GLOSSARY

ALTERNATE TIME CONTROL SWITCHES (keys): Located on the keypad, these 2 keys, TIME ON and TIME OFF, may be used instead of the Hand Held Time Control Switch.

NOTE: These 2 keys are inactive while the Hand Held Time Control Switch is plugged in. To enable them, turn the control off, unplug the Hand Held Switch and restart the control. You may use “Start Where Left off Last” if you wish.

AUTO HORN: Sounds for a minimum of 2 seconds when the main time has expired or reached the stop time.
(Can be disabled from the control)

AUX TIMER: An auxiliary timer, separate from the main timer, that can be configured to count up or down and to start and stop with the time control switch or run continuously. It can be viewed on the control (press the time key twice) or on an AUXILIARY TIME DISPLAY. Some uses for the aux timer include timing field or facility usage, or determining how far into a game a certain event happened.

AUXILIARY TIME DISPLAY: Consisting only of a timer, it can display the main time, the AUX TIME or the Chronometer (Time of Day Clock). Auxiliary Time Display models include: 9410, 9510, 9405 and 9505.

BATTERY: Battery powered memory saves the settings and data in the control in case of power failure. It also maintains the accuracy of the CHRONOMETER when the control is unplugged.

BEEPER: Confirms each key press and alerts operator when a special event such as time expired or an Entry Error has occurred.

BOOKMARK: Saves the current control settings and data so it can be easily recalled later. (5 Bookmarks are available)

BRIGHTNESS LEVEL: The scoreboard can be set to bright or dim for best viewing. Indoor scoreboards default to bright; outdoor scoreboards default to dim.

CHRONOMETER: Time of Day Clock. Once the correct time has been set, the accuracy of the Chronometer is maintained even while the control power is unplugged. During normal operation, the Chronometer can be displayed on the control by pressing a single key. This key can be armed so that when pressed, the Time of Day is also displayed on the scoreboard.

NOTE: Pressing the TIME key or turning the time on will return the main time to the display(s).

DISPLAY: A 16 character display on the control prompts the operator for input and can monitor the scoreboard data.

ENTRY ERROR: A visual and audible warning that an invalid action was attempted. Its normal duration is 2 seconds however you may interrupt it and continue immediately.

HAND HELD TIME CONTROL SWITCH: A hand held switch with a coiled cord that plugs into either side of the control. When connected, the alternate time control switches (keys) are disabled. (Makes it easier for another person to control the main time or sound the horn).

INTERVAL HORN: A horn that sounds repeatedly at preset intervals throughout the game. Its primary use is to signal when little league hockey teams should rotate to the court. The Interval Horn has been replaced by a more versatile SEGMENT TIMER. (See Segment Timer)

MODEL CODE: A 3 character code found on the OVERLAY that when entered into the control, sets up the control for a particular scoreboard model and sport or special function.

OPTIONS: Settings that determine how the scoreboard system operates.

OVERLAY: A flat plastic panel that fits over and around the keys on the control. Tabs at the top and bottom hold it in place. Each overlay provides the proper labeling for each key and a three character Model Code. A brief set of operating instructions is printed on the back of each overlay; you may make copies if you desire. When you want to change to a different sport, install the correct overlay and enter the new Model Code.

SEGMENT TIMER: Sometimes called Practice Timer, it allows a list of time segments to be programmed into the control. The list can then be used for a practice routine or drill. When started, the first segment on the list is loaded into the main timer and starts counting down. When zero is reached, the horn sounds and the next segment is loaded and begins counting down with no intervention needed.

NOTE: The Segment Timer has replaced the Interval Horn and can mimic it exactly.

SUB HORN: When armed, waits until the main time has been stopped, then sounds automatically to alert the officials that a player is waiting to be substituted into the game.

TENTH SECOND SHIFT TIMER: Automatically shifts from displaying minutes and seconds to seconds and tenths of seconds during the last minute of count down time. (May be disabled if desired)

TIME OUT TIMER: Programmable for different time out lengths and with optional warning horn and an option to display the Time Out time remaining on the scoreboard. (Ten different time out timers are available. Timer 0 is preset to 30 seconds with a warning horn at 10 seconds and is not displayed on scoreboard.)

My Bookmark Program Chart

Bookmark # 1
Model Code _____

Bookmark # 2
Model Code _____

Bookmark # 3
Model Code _____

Bookmark # 4
Model Code _____

Bookmark # 5
Model Code _____

Appendix (Chronometer)

(Time of Day)

A **CHRONOMETER** (Time of Day Clock) is built into the control. Once set, it will maintain its accuracy even while the control is turned off or disconnected from power. During normal operation the Time of Day can be recalled to the display on the control by pressing a single key, the **Chronometer** key. The **Chronometer** key can be enabled so that when pressed, the Time of Day will also be displayed on the scoreboard(s).

NOTE: Pressing the TIME key or turning the time on will return to displaying the Main Time.

Pressing **Set**, then **Chronometer** will initiate the set up mode. While in this mode, you can:

1. Specify whether or not the Time of Day will be displayed on the Auxiliary Time Display, if one is connected.
2. Enable or disable the Chronometer key so that pressing it will display the chronometer on the scoreboard. (the default is to display the Time of Day on the control only)
3. Set the Time of Day Clock.
4. Allow the control to be turned off, disconnected, and stored away in a safe location, while the scoreboard or auxiliary time display, or both, continues to display a running “time of day” clock.

NOTE: Some scoreboard models do not support all settings or options.

Questions that the control may ask include:

DO YOU HAVE AN AUXILIARY TIME DISPLAY CONNECTED?

(NOTE: Auxiliary Time Display models include: 9410, 9510, 9405 and 9505).

DO YOU WANT TO DISPLAY CHRONOMETER TIME ON AUXILIARY TIME DISPLAY?

ENABLE CHRONOMETER KEY TO PUT CHRONOMETER TIME ON SCOREBOARD?

[KEY ENABLED]

or

DISABLE CHRONOMETER KEY?

[KEY DISABLED]

SET CHRONOMETER?

[SET HH:MM:SS]

TURN CONTROL OFF BUT LEAVE CHRONOMETER TIME DISPLAYED? (Allows the control to be turned off, disconnected, and stored away in a safe location, while the scoreboard or auxiliary time display, or both, continues to display a running “time of day” clock.)

DISPLAY CHRONOMETER TIME ON ALL DISPLAYS? (Scoreboard(s) and auxiliary time display(s))

Display will go blank. Turn control off.

DISPLAY CHRONOMETER TIME ON AUXILIARY TIME DISPLAY? (Auxiliary time display only)

Display will go blank. Turn control off.

EXAMPLE**To Set The Chronometer:**

- A. Set the Chronometer to 12:00:00

Do The Following Steps:

1. Press **SET** --- then **CHRONOMETER**.
2. The control will ask --- ***DO YOU HAVE AN AUXILIARY TIME DISPLAY CONNECTED?*** --- (Answer this question appropriately.)

NOTE: This question is asked only once for each time the control is started fresh by entering a model code. It may be ask from SET OPTIONS or from SET CHRONOMETER. The control needs this information in order to know what other questions to ask and how certain data should be handled. Auxiliary Time Display models include: 9410, 9510, 9405 and 9505.

3. The control will ask --- ***DO YOU WANT TO DISPLAY CHRONOMETER TIME ON AUXILIARY TIME DISPLAY?*** --- (Press **No**).

NOTE: This question will only be asked if you answered yes to “DO YOU HAVE AN AUXILIARY TIME DISPLAY CONNECTED?”

4. The control will ask --- ***ENABLE CHRONOMETER KEY TO PUT CHRONOMETER TIME ON SCOREBOARD?*** --- (Press **No**).

5. The control will ask --- ***SET CHRONOMETER?*** --- (Press **Yes**).

[SET HH:MM:SS] --- (Enter the hours, minutes, and seconds).

NOTE: The time is based on a 12 hour clock.

[Y/N 12:00:00] --- (Press **Yes**).

NOTE: It usually takes the control about 2 seconds to process and actually set the internal clock after Yes is pressed.

Appendix (Segment Timer) (MPC-6 and MPCW-6 Rev. 2.5 or later)

The **SEGMENT TIMER** can be configured to act like an Interval Horn, or configured for practice drills with multiple unique timed segments. You can choose to have the time stop at the end of each segment or run continuously. Up to 40 segments each up to 99 minutes and 59 seconds can be set. After the last set segment expires, the series starts over. The segment list can be reviewed, shortened, lengthened, or a segments time changed. Segment timer information is included when a bookmark is saved.

NOTE: See the examples at the end of this section for more help.

To configure as an **Interval Horn**, use only one segment, set it to a multiple of 30 seconds (example 0:30, 01:00, 01:30 etc.), and do not display on scoreboard. The main time will be displayed and the segment timer will function like an interval horn. (The horn will sound repeatedly, based on the time set in the segment).

NOTE: Using more than 1 segment or setting to a time other than a multiple of 30 seconds may yield unexpected results.

The Segment Timer is configured from the **SET OPTIONS** menu and uses the following questions and prompts:

ENABLE SEGMENT TIMER? (Press **Yes** to enter the segment timer set up mode) or (**No** to skip segment timer questions).

[SEG 01 MM:SS] (Enter the minutes and seconds for segment 01 then press **Yes**).

ADD ANOTHER SEGMENT? (Press **Yes** to add another or **No** to end the list).

DISPLAY SEGMENT TIMER ON SCOREBOARD? (Answer **No** to continue displaying the main time; the Segment Timer will act like an Interval Horn), or (Answer **Yes** to display each segment as it counts down)*.

STOP TIME AT EACH SEGMENT? (Loads the next segment and waits for the “TIME ON” button to be pressed)**.

NOTE: If you want to return to normal scoreboard operation, press **SET OPTIONS** and answer **Yes** to the following question:

DISABLE SEGMENT TIMER? (Clears all segments and returns to normal operation)*.

***NOTE:** To return to normal operation after the segment timer is displayed on the scoreboard, the control must be turned off and restarted by entering a model code or going to a bookmark.

****NOTE:** If using the hand held time switch, turn the switch to the off position, then to the time on position to start the next segment running.

EDITING the SEGMENT TIMER

The Segment Timer list can be reviewed lengthened, shortened, or a segment's time changed.

To Review the Segment List:

1. Press **SET** --- then **OPTIONS**
2. Answer questions as desired
3. When the control asks --- **EDIT SEGMENT TIMER?** --- (Press **Yes**)
 - [EDIT01 12:34 Y/N]** (The control displays the word "EDIT", the segment number "01", and the segment time "12:34", and the prompt "Y/N") the control is asking if you want to edit the segment. --- (press **No**)
 - [EDIT02 23:00 Y/N]** (Each time you press no, the next segment in the list is displayed.)
4. After all segments have been reviewed the control will display --- **ADD ANOTHER SEGMENT?** --- (Press **No**) (Exits the edit mode)
5. Answer the remaining questions as desired and return to normal operating mode.

To Add A Segment to the List:

1. Press **SET** --- then **OPTIONS**
2. Answer questions as desired
3. When the control asks --- **EDIT SEGMENT TIMER?** --- (Press **Yes**).
 - [EDIT01 12:34 Y/N]** (The control displays the word "EDIT", the segment number "01", and the segment time "12:34", and the prompt "Y/N") the control is asking if you want to edit the segment. --- (press **No**).
 - [EDIT02 23:00 Y/N]** (Each time you press no, the next segment in the list is displayed)
4. After all segments have been reviewed the control will display --- **ADD ANOTHER SEGMENT?** --- (Press **Yes**). (Enters the time setting mode)
5. **[SEG 03 MM:SS]** (Example: press **0**, press **1**, press **3**) (1 minute 30 seconds).
6. **[SEG 03 01:3S]** (Press **Yes**). (Adds the new segment to the list).
7. **ADD ANOTHER SEGMENT?** (Press **No**) (or press **Yes** to add another)
8. Answer the remaining questions as desired and return to normal operating mode.

NOTE: Segments can only be added to the end of the list. They cannot be inserted into the middle.

To Shorten the Segment List:

1. Press **SET** --- then **OPTIONS**.
 2. Answer questions as desired
 3. When the control asks --- **EDIT SEGMENT TIMER?** --- (Press **Yes**).
 [EDIT01 12:34 Y/N] (The control displays the word “EDIT”, the segment number “01”, and the segment time “12:34”, and the prompt “Y/N”) the control is asking if you want to edit the segment. --- (press **No**).
 [EDIT02 23:00 Y/N] (Each time you press **No**, the next segment in the list is displayed).
 [EDIT03 05:00 Y/N] (When the control is displaying the first segment past where the list should end --- (press **Yes*****).
 4. [SEG 03 MM:SS] (Press **0**) (0 minutes and 0 seconds).
 5. [SEG 03 0M:SS] (Press **Yes**). **NOTE:** A segment set to zero time marks the end of the segment list and will cause it to start over with segment 01. All subsequent segments are cleared.
 6. **ADD ANOTHER SEGMENT?** --- (Press **No**). (Exits the edit mode).
 7. Answer the remaining questions as desired and return to normal operating mode.
- ***NOTE: You can only mark a new end of list. You cannot randomly remove segments.

To Change the Length of a Segment:

1. Press **SET** --- then **OPTIONS**.
2. Answer questions as desired
3. When the control asks --- **EDIT SEGMENT TIMER?** --- (Press **Yes**).
 [EDIT01 12:34 Y/N] (The control displays the word “EDIT”, the segment number “01”, and the segment time “12:34”, and the prompt “Y/N”) the control is asking if you want to edit the segment. --- (Press **No**).
 [EDIT02 23:00 Y/N] (Each time you press **No**, the next segment in the list is displayed).
 [EDIT03 05:00 Y/N] (When the control is displaying the segment you want to change --- (Press **Yes**).
4. [SEG 03 MM:SS] (Press **0**, press **5**, press **3**) (5 minutes and 30 seconds).
5. [SEG 03 05:3S] (Press **Yes** to accept and move to the next segment).
6. [EDIT04 15:00 Y/N] (You may now choose whether or not to edit this segment).
7. **ADD ANOTHER SEGMENT?** --- (Press **No**). (Exits the edit mode).
8. Answer the remaining questions as desired and return to normal operating mode.

EXAMPLE**To Configure the Segment Timer to sound a horn at a predetermined interval (Act like an INTERVAL HORN):**

A. Sound a horn at 1 minute 30 second intervals.

Make the following settings:

1. Press **SET** --- then **OPTIONS**.
2. Answer questions as desired.
3. When the control asks --- **ENABLE SEGMENT TIMER?** --- (Press **Yes**).
4. **[SEG 01 MM:SS]** (Press **0**, press **1**, press **3**) (1 minute 30 seconds).
5. **[SEG 01 01:3S]** (Press **Yes**). **NOTE:** Only significant digits are required.
6. **ADD ANOTHER SEGMENT?** (Press **No**)
7. **DISPLAY SEGMENT TIMER ON SCOREBOARD?** (Press **No**).
8. **STOP TIME AT EACH SEGMENT?** (Press **No**).
9. Answer the remaining questions as desired and return to normal operating mode.

NOTE: Using more than 1 segment or setting to a time other than a multiple of 30 seconds may yield unexpected results.

EXAMPLE

To configure the Segment Timer for the following practice drills:

Segment #	Duration	Drill
01	5 minutes	Stretching
02	10 minutes	Shoot around
03	5 minutes	Lay-ups
04	45 seconds	Regroup
05	10 minutes	Run laps
06	4 minutes	Cool down

Make the following settings:

1. Press **SET** --- then **OPTIONS**.
2. Answer questions as desired.
3. When the control asks --- **ENABLE SEGMENT TIMER?** --- (Press **Yes**).
4. [**SEG 01 MM:SS**] (Press **0**, press **5**) (5 minutes).
5. [**SEG 01 05:SS**] (Press **Yes**). **NOTE:** Only significant digits are required.
6. **ADD ANOTHER SEGMENT?** (Press **Yes**).
7. [**SEG 02 MM:SS**] (Press **1**). (10 minutes).
8. [**SEG 02 10:SS**] (Press **Yes**). **NOTE:** Only significant digits are required.
9. **ADD ANOTHER SEGMENT?** (Press **Yes**).
10. [**SEG 03 MM:SS**] (Press **0**, press **5**) (5 minutes).
11. [**SEG 03 05:SS**] (Press **Yes**). **NOTE:** Only significant digits are required.
12. **ADD ANOTHER SEGMENT?** (Press **Yes**).
13. [**SEG 04 MM:SS**] (Press **0**, press **0**, press **4**, press **5**). (45 seconds).
14. [**SEG 04 00:45**] (Press **Yes**). **NOTE:** Only significant digits are required.
15. **ADD ANOTHER SEGMENT?** (Press **Yes**).
16. [**SEG 05 MM:SS**] (Press **1**). (10 minutes).
17. [**SEG 05 1M:SS**] (Press **Yes**). **NOTE:** Only significant digits are required.
18. **ADD ANOTHER SEGMENT?** (Press **Yes**).
19. [**SEG 06 MM:SS**] (Press **0**, press **4**). (4 minutes).
20. [**SEG 06 04:SS**] (Press **Yes**). **NOTE:** Only significant digits are required.
21. **ADD ANOTHER SEGMENT?** (Press **No**).
22. **DISPLAY SEGMENT TIMER ON SCOREBOARD?** (Press **Yes**).
23. **STOP TIME AT EACH SEGMENT?** (Press **No**).
24. Answer the remaining questions as desired and return to normal operating mode.

NOTE: You may want to set a **BOOKMARK**. (Saves current configuration and data for quick start up)

EXAMPLE**For a typical Soccer application:**

- A. Main clock counts up.
- B. Total length of game is 90 minutes.
- C. Clock stops and horn sounds at end of first half (45 minutes).
- D. Second half resumes with clock starting at 45 minutes.
- E. When clock reaches 90 minutes, clock stops and horn sounds.

Make the following settings:

1. Press **SET** --- then **OPTIONS**.
2. Answer questions as desired.
3. When the control asks --- **ENABLE SEGMENT TIMER?** --- (Press **Yes**).
4. **[SEG 01 MM:SS]** (Press 4, press **5**). (45 minutes).
5. **[SEG 01 45:SS]** (Press **Yes**). **NOTE:** Only significant digits are required.
6. **ADD ANOTHER SEGMENT?** (Press **No**).
7. **DISPLAY SEGMENT TIMER ON SCOREBOARD?** (Press **No**).
8. **STOP TIME AT EACH SEGMENT?** (Press **Yes**).
9. **CHANGE DIRECTION OF MAIN CLOCK?** (Press **Yes**).
10. **CLOCK TO STOP AT SPECIFIED TIME?** (Press **Yes**).
11. **[SET MM:SS]** (Press **9**). (90 minutes).
12. **[SET 9M:SS]** (Press **Yes**). **NOTE:** Only significant digits are required.
13. Answer the remaining questions as desired and return to normal operating mode.
14. To set the period to 1 --- (Press **SET** then **TIME** then **NO**) --- this will leave the time unchanged (0:00) up count ---- the display will show **[PERIOD 0]** (press **1**).
The control will show **[0:00 UP]**

NOTE: This would be a good place to set a **BOOKMARK**. (Saves current configuration for quick start up)

When the first half ends --- the clock will stop and the segment horn will sound.

To get ready for the second half --- (Press **SET** then **TIME** then **NO**) --- this will leave the time unchanged, 45:00 ---- the display will show **[PERIOD 1]** (Press **2**).
The control will show **[45:00 UP]**

To start the second half --- (Press **TIME ON**). **NOTE:** If you are using the hand held switch, turn it off then on.

When the game time expires, the clock will stop and the horn will sound.

EXAMPLE**To configure the Segment Timer for a Pre-Match Protocol for College Volleyball:**

Segment #	Duration	Activity
01	41 minutes	Court available for shared warm-up and coin toss
02	04 minutes	Visiting team court
03	04 minutes	Home team court
04	05 minutes	Visiting team court
05	05 minutes	Home team court
06	01 minutes	Team huddle / Announcements
Match begins with national anthem & introductions		

NOTE: Consult the rules that govern your level of play.

Make the following settings:

1. Press **SET** --- then **OPTIONS**.
2. Answer questions as desired.
3. When the control asks --- **ENABLE SEGMENT TIMER?** --- (Press **Yes**).
4. **[SEG 01 MM:SS]** (Press **4**, press **1**). (41 minutes).
5. **[SEG 01 41:SS]** (Press **Yes**). **NOTE:** Only significant digits are required.
6. **ADD ANOTHER SEGMENT?** (Press **Yes**).
7. **[SEG 02 MM:SS]** (Press **0**), (press **4**). (4 minutes).
8. **[SEG 02 04:SS]** (Press **Yes**). **NOTE:** Only significant digits are required.
9. **ADD ANOTHER SEGMENT?** (Press **Yes**).
10. **[SEG 03 MM:SS]** (Press **0**, press **4**). (4 minutes).
11. **[SEG 03 04:SS]** (Press **Yes**). **NOTE:** Only significant digits are required.
12. **ADD ANOTHER SEGMENT?** (Press **Yes**).
13. **[SEG 04 MM:SS]** (Press **0**, press **5**). (5 minutes).
14. **[SEG 04 05:SS]** (Press **Yes**). **NOTE:** Only significant digits are required.
15. **ADD ANOTHER SEGMENT?** (Press **Yes**).
16. **[SEG 05 MM:SS]** (Press **0**, press **5**). (5 minutes).
17. **[SEG 05 05:SS]** (Press **Yes**). **NOTE:** Only significant digits are required.
18. **ADD ANOTHER SEGMENT?** (Press **Yes**).
19. **[SEG 06 MM:SS]** (Press **0**, press **1**). (1 minute).
20. **[SEG 06 01:SS]** (Press **Yes**). **NOTE:** Only significant digits are required.
21. **ADD ANOTHER SEGMENT?** (Press **No**).
22. **DISPLAY SEGMENT TIMER ON SCOREBOARD?** (Press **Yes**).
23. **STOP TIME AT EACH SEGMENT?** (Press **No**).
24. Answer the remaining questions as desired and return to normal operating mode.

NOTE: You may want to set a **BOOKMARK**. (Saves current configuration and data for quick start up)

Troubleshooting Chart

Problem	Cause	Solution
I get tired of setting up my segment timer.	Not using a Bookmark	Set up the timer as needed, then from the Set Options menu, save a Bookmark. When you start the control, answer Yes to Go To A Bookmark.
When I Disable the segment timer I lose all its settings.	When the segment timer is disabled, all segments and settings are cleared.	
The control does not ask if I want to disable segment timer.	This question is not asked if the segment timer is displayed on the scoreboard.	The control must be turned off and started fresh by entering a model code or going to a bookmark.
I cannot insert a segment	This is not allowed.	Use the edit feature to change the segment times and add more segments as needed. Be sure to resave the Bookmark.
I cannot remove a segment	This is not allowed.	Use the edit feature to change the segment times. Setting a segment to 00:00 marks the end of the segment list. Be sure to resave the Bookmark.
I cannot restart a segment	No you cannot restart a segment.	You can change the segment’s currently displayed time. As soon as it expires, the next segment in the list is loaded. (The original time remains unchanged.)
The drills are fine, but we need time to get ready for the next drill.	The time is not set to stop at each segment.	Set the timer to stop at each segment. When a segment expires, the horn will sound, the next segment will be loaded, and the time will stop. When everyone is ready, press Time On.
	No extra segments have been set up for time between drills.	Set up an extra segment, for time to get ready, for each drill.
I cannot tell when all the segments have expired.	When all segments have expired, the segment timer automatically starts over with segment 01.	Set up an extra segment or two at the beginning or end of the segment list. Set these segments to a short amount of time. The extra horns will alert of the list end.

If the problem persists please contact the Nevco Service Department.

800-851-4040

