Blue Rink use wirless Code

Figure 2 - MPC Control (rear view)

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

TABLE OF CONTENTS

START UP PROCEDURE1	
START WHERE TURNED OFF LAST?	
1	
QUICK START GUIDE	
SET THE PLAY CLOCK	
KEYBOARD FUNCTIONS4	
OPTIONS	
SET OPTIONS CHART THE SET OPTIONS MENU. 12	
TROUBLESHOOTING CHART	
<u>GLOSSARY</u> 16	
MY BOOKMARK PROGRAM CHART 18	
APPENDIX (CHRONOMETER)	
EXAMPLE	
EXAMPLE. 21 Set The Chronometer 21	
APPENDIX (SECMENT TIMED)	
APPENDIX (SEGMENT TIMER)	
Review the Segment List	
and the Definent List	
Add A Segment to the List	
The state of the s	
Act like on INTERVAL HODY 26	
A SOURCE CONTRACTOR AND	
27	
~ JP COURT DOCKET AND MELLINIA	
TROUBLESHOOTING CHART	
31	,
A American Marine Marin	
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(/ 4/6X/) T	
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Chronometer (Time of Day) 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)

Time Out Timer
Start 建磷酸

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.

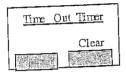
The display will prompt [_TIMER_#_(0-9)?___]

When you enter the desired number, the preset Time OutTime 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 t	the timer to
The display will prompt [SET MM:SS]	Inter the total
set up or overwrite. The control will prompt. SET MM:SS E Set up or overwrite. The control will prompt. SET MM:SS TO USE T	$\Gamma I\!M E$
The control Will ask DU 100	
OUT WARNING HORN?" If you answer 125 the control and prompt	
Finter the warning time.	
The control will ask "DO YOU WANT TO DISPLAY TIME OUT	ON
The control will ask "DO YOU WAIVI TO BEST -	

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).

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 scorebo and 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 scorebo ard(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 $[0:00.0 \quad DN]$ will be displayed, and the scoreboard(s) will turn on.

If you answer ${\bf YES}$:

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 $[0:00.0 \quad DN]$ 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 Set Time	The control will show	[SET MM:SS.s]
Press 0 8	The control will show	[SET 08:SS.s]
Press Yes	The control will show	PERIOD 0]
Press 1	The control will show	[8:00.0 DN]
You are now ready for the game to begin.		
To start the clock		
Press Time On		
To stop the clock		
Press Time Off		
To silence the Auto Horn at the end of the period		
Press Time		

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 ${\bf NO}$ 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.

Ti me On

tirni.

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.

Time

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.

Home Score 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

aran ny

GUESTS CORE works the same way.

Misc. Shot Time 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.

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

Set Options Char	÷						Γ	
Do You Have An Auxiliary Time Display	Y							
Connected? (this question may not alway s be asked)*	И	Next Available Question						
Switch to (Dim or	Y	Changes rightness level of Scoreboard						
Bright)?	N	Next Available Question					Solid Sale	
	1,	Aux Timer To Count Down?	Y	Start and Stop with Hand Held Switch?	Y N	SET HH:MM:SS	Dier	ni the life in the
Use Aux Timer?	Y	All Time 15 Count Down:	N	Start and Stop with Hand Held Switch?	Y	SET MM:SS		e Display?*** * 1
	N	Next Available Question	-				<u> </u>	
Display/Chrononser on	Υ							
Auxiliary Time Display	Ŋ	Next Available Question	1					r.
	200 mm		T		Y	SET MM:SS		
						Display Segment Timer on	Y	Display's Segment Timer instead of main time
Enable Segment Timer?	Y	SET MM:SS	Y	Another Segment?	N	Scoreboard?	N	Display's Main time with Interval Horn
						Stop Time at Each	Y	Waits for time on
						Segment?	N	Runs continuously
	N	Next Available Question	1					
	+-	The state of the s	Y	SET MM:SS				
Change Direction of Main Clock?	Y	Do You Want Clock to Stop at Specified Time?	N	Next Available Question				
ţ	N	Next Available Question						
Disable Tenth Sec?	17		Ī					
	N	Next Available Question	1			arted? Y/N		
End Of Period To Turn O	ff U	oon Setting The Time? (or) End C)f Pe	riod To Stay On Until Tim	ie Is Sti	Artea/ Y/IN		
D. a. D. alm and	73	/ Bookmark#?						
Set a Bookmark?	1	Normal Operation Mode						z a model code. It may
I					al fele	torted fresh by er	irenn (r a model code. Il may

^{*} 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 it 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 ask 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 determining 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 hom.

For interval horn, enable the timer, set only the first segment, and do NOT display the segment timer on the scorebo ard. 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.

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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 hom.

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.

Ωľ

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

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

If the problem persists please contact the Nevco Service Department. 800-851-4040

GLOSSARY

- ALTERNATE TIME CONTROLS WITCHES (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 CONTROLS WITCH: 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 he 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 hom 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 hom at 10 seconds and is not displayed on scoreboard.)

My Bookmark Program Chart

Bookmark # 1 Model Code					
	·				
Bookmark # 2 Model Code			Control of the Contro		
Bookmark # 3 Model Code					
ookmark # 4 lodel Code		<u>.</u>			
ookmark # 5 odel Code				· · · · · · · · · · · · · · · · · · ·	
			•		

These Instructions are for the Following Models:

LED models:	LED models:	Incandescent models:
4707 4710 4711 4730 4750 4755 4760 4765 9710	4507 4510 4510-D 4511 4511-D 4530 4550 4550-D 4555-D 4560 4565 4570 4620 4621 4625 9510 9515	4407 4410 4411 4430 4440 4445 4450 4455 4460 4465 9410

Thank You

Thank You for choosing NEVCO SCOREBOARDS. 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 US A —	— IN CANADA —
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Website: w Email: info	ww.nevco.com o@nevco.com

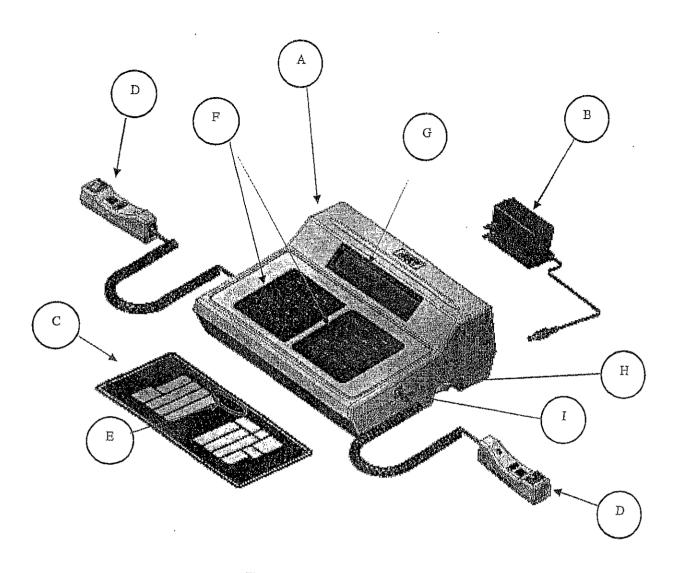


Figure I - MPC Control (front view)

A.	MPC Control	Can operate scoreboards for a wide range of sports and features.
В.	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
E.	3 character Model Code location	Other switches are included with the accessories they operate. 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)

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

The SEGMENT TIMER can be configured to act like an Interval Hom, 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 <u>only one segment</u>, set it to a multiple of 30 seconds (example 0:30, 01:00, 01:30 etc.), and do not <u>display on scoreboard</u>. The main time will be displayed and the segment timer will function like an interval hom. (Γhe 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 Hom), 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
- 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
- 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 N_0).

[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.
- Answer questions as desired
- --- (Press Yes). When the control asks -- EDIT SEGMENT TIMER?

(The control displays the word "EDIT", the segment number "01", and [EDIT01 12:34 Y/N] the segment time "12:34", and the prompt "Y/N") the control is asking if you want to edit the segment. — (press N0).

(Each time you press No, the next segment in the list is displayed). [EDIT02 23:00 Y/N] (When the control is displaying the first segment past where the list EDIT03 05:00 Y/N] should end — (press Yes)***.

(Press 0) (0 minutes and 0 seconds). [SEG_03_MM:SS_]

[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.

- 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
- When the control asks EDIT SEGMENT TIMER? -- (Press Yes).

(The control displays the word "EDIT", the segment number "01", and [EDIT01 12:34 Y/N] the segment time "12:34", and the prompt "Y/N") the control is asking if you want to edit the segment. -- (Press No).

(Each time you press No, the next segment in the list is displayed). EDIT02 23:00 Y/N] (When the control is displaying the segment you want to change ---EDIT03 05:00 Y/N] (Press Yes).

- (Press 0, press 5, press 3) (5 minutes and 30 seconds). SEG 03 MM:SS 1
- (Press Yes to accept and move to the next segment). SEG 03 05:3S 1 5.
- EDIT04 15:00 Y/N] (You may now choose whether or not to edit this segment).
- ADD ANOTHER SEGMENT? (Press No). (Exits the edit mode).
- Answer the remaining questions as desired and return to normal operating mode.

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 MIM: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.

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

To configure the Segment Timer for the following practice drills:

N	Drill
Duration	
5 minutes	Stretching
10 minutes	Shoot around
5 minutes	Lay-ups
45 seconds	Regroup
	Run laps
	Cool down
	Duration 5 minutes 10 minutes

Make the following settings:

- 1. Press SET --- then OPTIONS.
- Answer questions as desired.
- When the control asks ENABLE SEGMENT TIMER? (Press Yes).
- [SEG 01 MM:SS] (Press 0, press 5) (5 minutes).
- [SEG 01 05:SS] (Press Yes). NOTE: Only significant digits are required.
- ADD ANOTHER SEGMENT? (Press Yes).
- [SEG 02 MM:SS] (Press 1). (10 minutes).
- (Press Yes). NOTE: Only significant digits are required. [SEG 02 10:SS]
- 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?
- 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)

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.

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
	Mat	ch 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).
- (Press 4, press 1). (41 minutes). 4. [SEG 01 MM:SS]
- 41:SS] (Press Yes). NOTE: Only significant digits are required.
- ADD ANOTHER SEGMENT? (Press Yes)
- (Press 0), (press 4). (4 minutes). [SEG 02 MM:SS]
- [SEG 02 04:SS] (Press Yes). NOTE: Only significant digits are required.
- 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?
- 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

	Solution
Not using a Bookmark	Set up the timer as needed, then from the Set Options menu
When the segment timer is disabled, all segments and settings are cleared.	save a Bookmark. When you start the control, answer Yes to Go To A Bookmark.
This question is not asked if the segment timer is displayed on the scorebo ard.	The control must be turned off and started fresh by entering a model code or going to a bookmark.
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.
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.
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 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.
up for time between drills.	Set up an extra segment, for time to get ready, for each drill.
the segment timer automatically	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 homs will alert of the list end.
	When the segment timer is disabled, all segments and settings are cleared. This question is not asked if the segment timer is displayed on the scorebo ard. This is not allowed. This is not allowed. This is not allowed. The time is not set to stop at each segment. No extra segments have been set up for time between drills. When all segments have expired, the segment timer automatically

If the problem persists please contact the Nevco Service Department. 800-851-4040