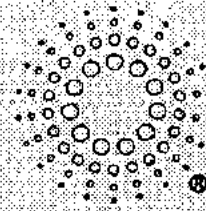




A product of



Everbrite

401 S Main St
Pardeeville, WI 53954
(608) 429-2121 / (800) 356-8146

OPERATING INSTRUCTIONS AND SERVICE MANUAL

BASKETBALL SCOREBOARD

MODEL MP-2213 MASCOT III

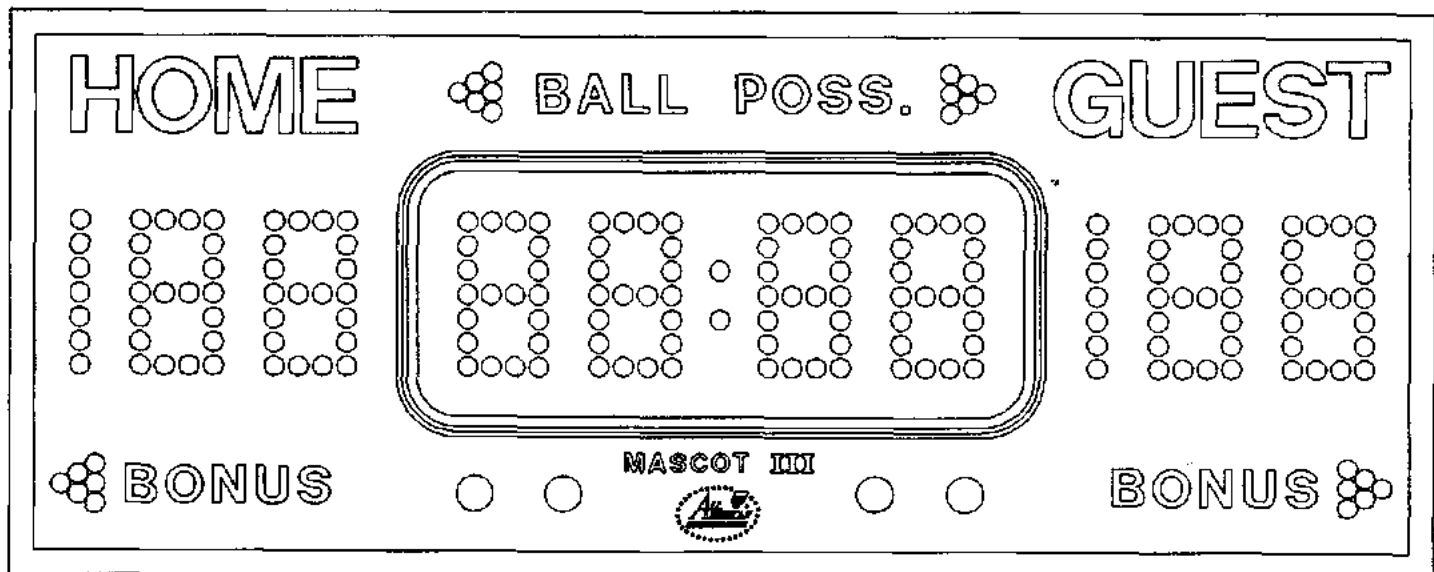


TABLE OF CONTENTS

1. GENERAL INFORMATION

- 1.1 DESCRIPTION
- 1.2 IDENTIFICATION
- 1.3 DAMAGE
- 1.4 DAMAGE CLAIM PROCEDURE

2. INSTALLATION

- 2.1 GENERAL INFORMATION
- 2.2 INSPECTION

3. CONTROL CONSOLE OPERATION

- 3.1 SCOREBOARD POWER
- 3.2 CONSOLE POWER
- 3.3 CONSOLE DISPLAY
- 3.4 TIME SETTING AND CONTROL
- 3.5 FINAL MINUTE 1/10 SECOND
- 3.6 TEAM SCORES
- 3.7 HORN
- 3.8 BONUS INDICATOR
- 3.9 PERIOD INDICATORS
- 3.10 BALL POSSESSION INDICATOR

4. MAINTENANCE AND TROUBLESHOOTING

- 4.1 INTRODUCTION
- 4.2 TEST EQUIPMENT
- 4.3 TROUBLESHOOTING
- 4.4 TROUBLESHOOTING GUIDE

5. REPLACEMENT PARTS LIST

- 5.1 SCOREBOARD PARTS (B-7611)

6. DIAGRAMS

- 6.1 CONTROL CONSOLE KEYBOARD AND SLIPSHEET LAYOUT
- 6.2 MICROPROCESSOR 4 X 7 LED PATTERN

1. GENERAL INFORMATION

1.1 DESCRIPTION

Your All-American scoreboard has been carefully inspected and tested before leaving the factory. It is possible, however, that components may be loosened or forced out of adjustment in transit. If this occurs, follow the troubleshooting guide (section 4). If equipment then fails to operate, contact immediately:

ALL-AMERICAN Service Department
EVERBRITE Corporation
P.O. Box 97
Pardeeville, WI 53954
Telephone: (608) 429-2121
Toll Free: 800-356-8146

Parts being returned for repair are to be sent to:

ALL-AMERICAN Service Department
EVERBRITE Corporation
401 S. Main Street
Pardeeville, WI 53954

NOTE

If you need to send parts in for repair, please call the ALL AMERICAN service department for a returned goods authorization (RGA) number.

1.2 Identification

ALL-AMERICAN uses a 4 digit serial number for scoreboard identification. The serial number tags are located on the back of the control console and the lower right hand corner of the scoreboard display. When contacting the factory for assistance it is important that the model number and serial number are known.

1.3 Damage

Upon receipt, check for visible damage. If this occurs, or if damage is found after shipment has been accepted, follow the damage claim procedure.

1.4 Damage Claim Procedure

An instruction sheet is enclosed advising the consignee in case of damage in transit. If damage is noted at the time of delivery, consignee must obtain an 'Inspection of Bad Order' from the delivering carrier. In order to process your claim, this must be properly filled out with a complete statement of all damage and it must be signed by the carrier.

If damage is discovered after delivery, you should call the delivery company. Have them make out a Concealed Damage Report. Fifteen days after delivery are allowed, so this should be done promptly or it is impossible to process this claim.

Advise EVERBRITE corporation of necessary replacement parts, or repairs.

Consignee will be invoiced and then should file a claim with the carrier to recover charges. To file your claim follow this procedure:

- (A) Cost of replacement parts or repair charges are invoiced to the carrier by the consignee.
- (B) The following documents, properly filled out, plus invoice, are forwarded to the trucking company in support of your claim:
 - (a) Original bill of lading
 - (b) Original paid freight bill
 - (c) Certified copy of original invoice
 - (d) Standard form for presentation of loss and damage claim

2. INSTALLATION

2.1 General Information

Shipping papers accompany each scoreboard. Check carefully to see that you receive the following:

- 1 ea Basketball Display
- 1 ea Control Console
- 1 ea Service Manual

NOTE

This equipment complies with the requirements in part 15 of the FCC rules for a class A computing device. Operation of this equipment in a residential area may cause unacceptable interference to radio and television reception, requiring the operator to take whatever steps are necessary to correct the interference.

2.2 Inspection

Inspect each unit and tighten all screws, and fittings that may have loosened in shipment.

3. CONTROL CONSOLE OPERATION

3.1 Scoreboard Power

Plug the power cord into a 120 Volt A.C. outlet.

3.2 Console Power

Push **ON/OFF** once to turn the console on.

Push **ON/OFF** a second time to shut the console off.

When first turned on; the console display should show **CODE**.

Enter the four digit code (2213) shown in the lower left corner of the keyboard as in the following example:

Push **CODE** **2** **2** **1** **3** **ENTER**.

When the proper code has been entered, the console display will show **:00**.

3.3 Console Display

The 4 digit Liquid Crystal Display (LCD) shows the game time plus information entered from the keyboard.

3.4 Time Setting and Control

To set an 8 minute period, Push: **SET** **8** **0** **0** **ENTER**.

Any time up to 99:59 may be preset in a similar manner.

The **UP/DN** key determines the timer mode.

Push **IN/OUT** to start/stop the timer.

Push **RESET** to return the timer to the previously set value.

3.5 Final Minute 1/10 Second

The control console will display 1/10 second during the final minute of the

period. The scoreboard timer digits shift two positions to the left in the final minute of play and 1/10 seconds are displayed.

3.6 Team Scores

The Home and Guest Scores can be changed in three different ways.

(A) To add 1 to the existing score: Push **ADD 1**.

(B) To directly enter or correct a score: Push Home or Guest **SCORE** followed by the desired number, then **ENTER**.

Example: Present Home Score is 15. Change the score from 15 to 23.

Push: Home **SCORE** **2** **3** **ENTER**.

(E) To clear the score: Push **SCORE** **0**.

3.7 Horn

The horn will blow for 1/2 second each time **HORN** is pressed.

The horn will blow automatically at the end of each period for 2 seconds.

3.8 Bonus Indicators

Push **BONUS** to illuminate the appropriate bonus indicator.

3.9 Period Indicators

Push **PERIOD** once to increment the period indicator.

3.10 Ball Possession

The ball possession indicators alternate with each **BALL POSS** entry.

4. MAINTENANCE AND TROUBLESHOOTING

4.1 Introduction

This section gives maintenance and troubleshooting information.

If the cause of a problem cannot be determined, please contact the customer service department.

WARNING !!!

110 VAC wires are exposed whenever the end cover on the scoreboard display assembly is removed from the scoreboard. Use extreme caution during troubleshooting or repair. To avoid possible damage to equipment or personal injury, always turn off the main power before removing the cover or replacing assemblies.

4.2 Test Equipment

A simple analog or digital voltmeter will be sufficient for all user repairable problems. Printed circuit boards requiring troubleshooting should be returned to the factory.

4.3 Troubleshooting

Whenever possible, follow the troubleshooting guides prior to contacting the customer service department. If a problem not described in the guides exists, contact the customer service department immediately. Refer to the diagrams provided for assistance in troubleshooting scoreboard malfunctions.

4.4 Troubleshooting Guides

(A) Scoreboard doesn't light and console doesn't work

- (a) Check the voltage at the wall outlet to make sure it is turned on.
- (b) Replace any defective or blown fuses.
- (c) Contact the customer service department.

IMPORTANT !!!

In this scoreboard the 120 volt line on the LED's is on all the time, and the common is switched to turn the LED's on and off. For this reason, to avoid damage to the equipment or personal injury, it is important to turn the main power off when changing any P.C. boards or components.

5. REPLACEMENT PARTS LIST

5.1 Scoreboard Display Parts

1

figure 1

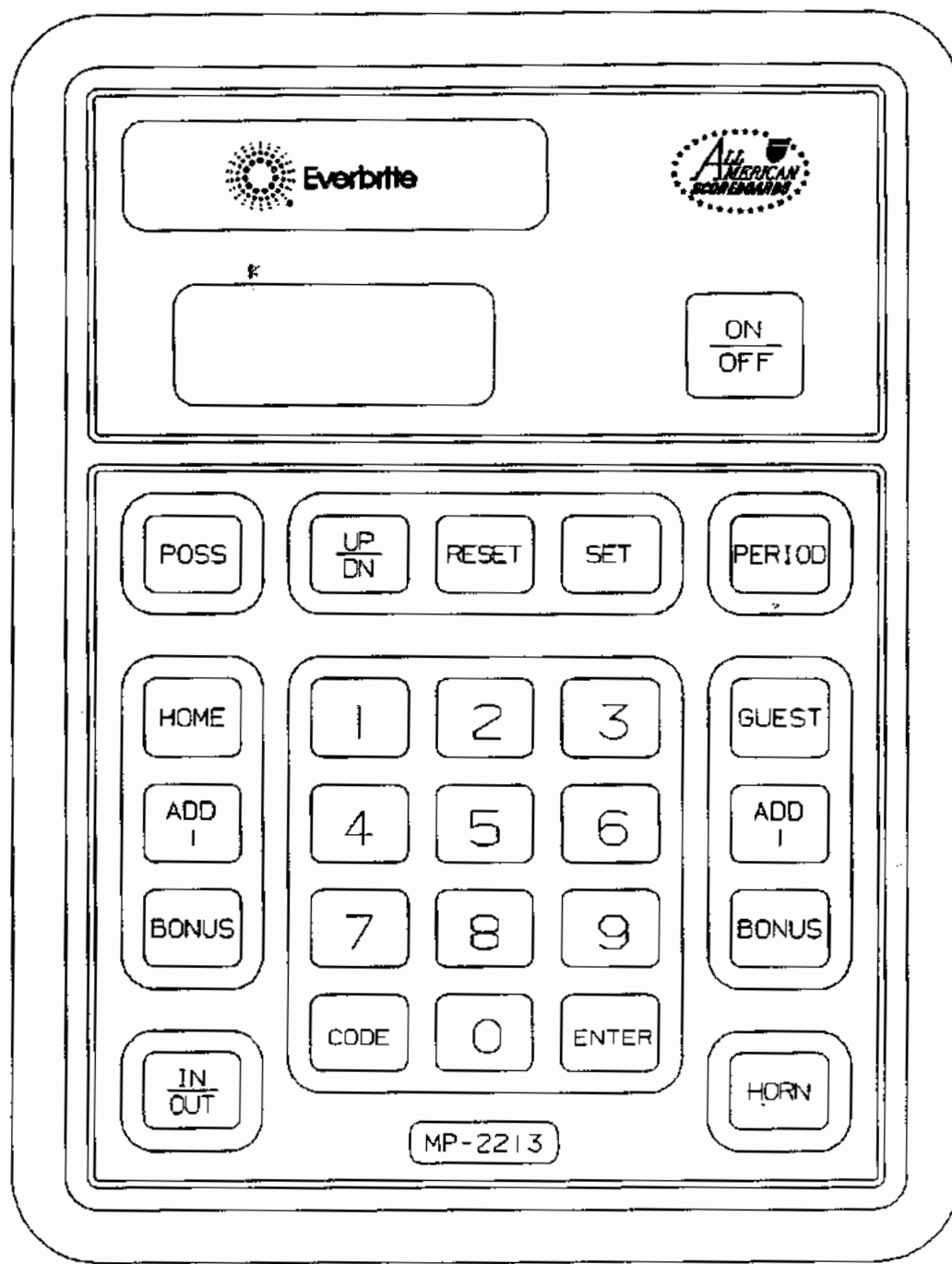
DISPLAY ASSEMBLY

5.1 Cont.

REPLACEMENT PARTS LIST (MP-2213 Basketball)				
fig.& index	MFG PART NUMBER	DESCRIPTION	REF DES	VENDOR PART #
1-	151114	Display Assembly		151114
1-1	118066	Control Console		118066
1-2	922780	Connector pin, Fem. 14-20 AWG		61117-1
1-3	702601	Connector Hsng. 6C Fem.		1-480270-0
1-4	119729	Connector, Telephone (Hirose)		TM2RGL64-5S-150
1-5	122323	Cable Assy, Control		122323
1-6	150184	Transmitter PCB Assembly	A1	150184
1-7	500042	Membrane Keyboard,		500042
1-8	120380	Receiver PCB Assy **** PROGRAM M3TNTH.V03 ****	A2	120380
1-9	150148	Multiplexor PCB Assy	A3	150148
1-10	150146	Home Score PCB Assy	A4	150146
1-11	150147	Guest Score PCB Assy	A5	150147
1-12	703667	Horn, Mini		510
1-13	703719	Transformer, 8V/18V	T1&T2	CS-697
1-14	119729	Connector, Telephone (Hirose)		TM2RGL64-5S-150
1-15	702600	Connector, 6C Male MNL		1-480402-0
1-16	922790	Pin, Male 14-20 AWG		61118-1
1-17	702601	Connector Hsng, 6C Fem. MNL		1-480270-0
1-18	922780	Pin, Fem. 14-20 AWG		61117-1
1-19	119760	Ribbon Cable Assy, 10.5"		119760
1-20	119761	Ribbon Cable Assy, 6"		119761
1-21	119762	Ribbon Cable Assy, 5"		119762
1-22	119763	Cable Assy, Logic		119763
1-23	119764	Cable Assy, Horn		119764
1-24	119765	Cable Assy, Power		119765
1-25	119766	Cable Assy, Data		119766
1-26	120382	Terminal Block, 9C		120382
1-27	151111	Control Stowage Panel,		151111
1-28	151112	Control Stowage Cover,		151112
1-29	151118	Face Panel, Red Acrylife		151118
1-30	800044	Power Cord, 3C 18 AWG 10'		

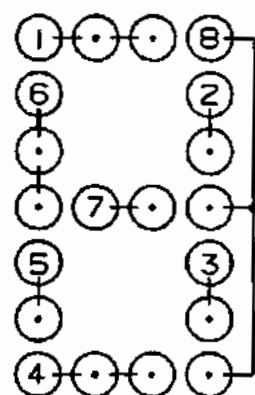
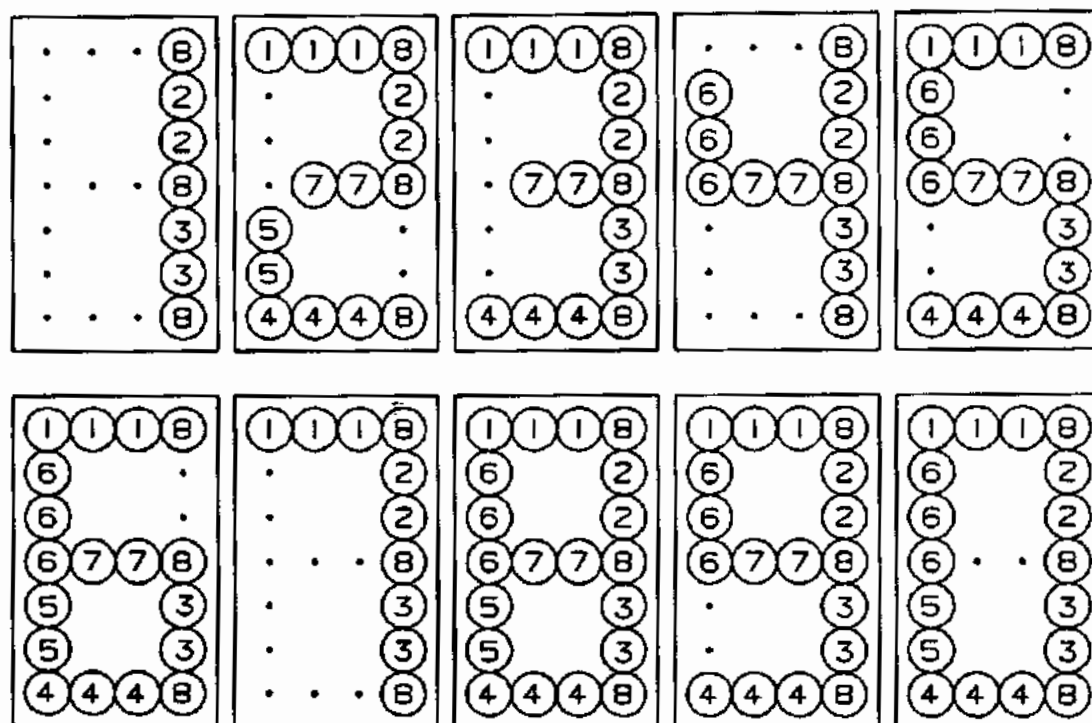
6. DIAGRAMS

6.1 Control Console Keyboard and Slipsheet Layout



CONSOLE KEYBOARD

6.2 Microprocessor 4 X 7 Pattern (8 Bit)



NUMERALS

	0	1	2	3	4	5	6	7	8	9
1	0	.	2	3	.	5	6	7	8	9
2	0	1	2	3	4	.	.	7	8	9
3	0	1	.	3	4	5	6	7	8	9
4	0	.	2	3	.	5	6	.	8	9
5	0	.	2	.	.	.	6	.	8	.
6	0	.	.	.	4	5	6	.	8	9
7	.	.	2	3	4	5	6	.	8	9
8	0	1	2	3	4	5	6	7	8	9

MICROPROCESSOR 4 X 7 (8 BIT) PATTERN