



OPERATING INSTRUCTIONS AND SERVICE MANUAL

BASKETBALL GAME TIME INDICATOR

MODEL MP-5297R

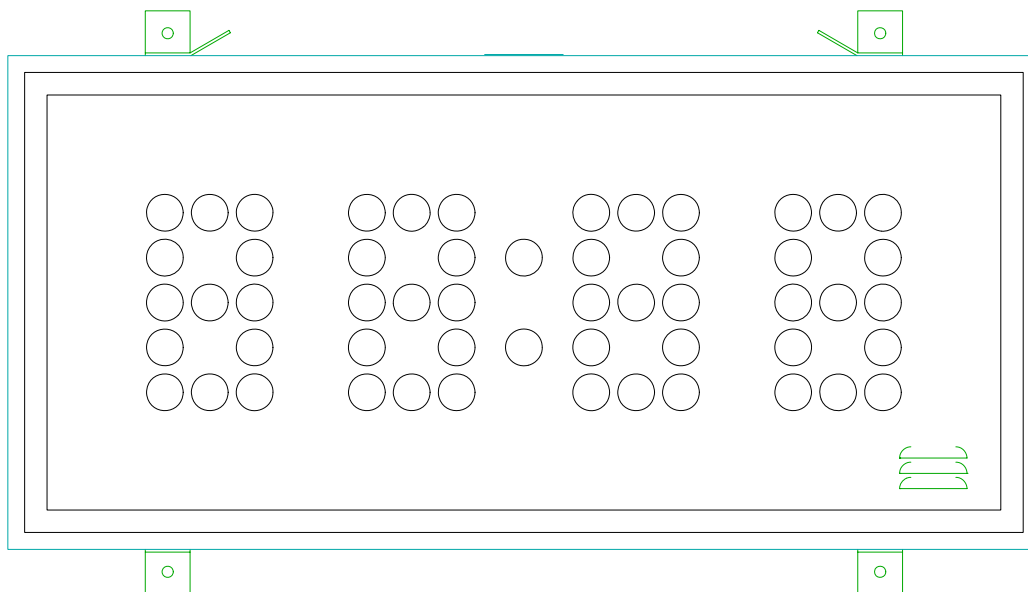


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1. GENERAL INFORMATION

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 100
Pardeeville, WI 53954
Telephone: (608) 429-2121
Toll Free: 800-356-8146
E-mail score@everbrite.com**

Parts being returned for repair are to be sent to:

**ALL-AMERICAN Service Department
EVERBRITE Corporation
401 South 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 5 digit serial number for scoreboard identification. The serial number tags are located on the lower right hand corner on the face of the scoreboard. When contacting the factory for assistance it is important that the model and serial numbers 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 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 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, 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, properly filled out.

1.5 Care of Equipment

Proper care of the equipment will result in years of reliable service. Misuse, however, will only result in problems. For reliable service make sure that:

When not in use, the control console is stored in a secure area.

Responsible operators are used.

Control cables are routed to prevent possible damage.

Drinks are not spilled on the control console.

Properly grounded outlets or extension cords are used.

The displays are located or installed to prevent damage.

Correct replacement parts are used.

2. INSTALLATION

2.1 General Information

Check shipment and if damaged file damage claim.

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

- 2 ea Basketball Timer Displays
- 1 ea Service Manual
- 2 ea Mounting Brackets

2.2 Inspection

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

2.3 Pre-Test

Before installing timers, if possible pre-test all functions.

- (A) Connect power cords to 15 AMP, 120 Volt AC outlets.
- (B) Plug the control console into the scoreboard control junction box.
- (C) Test operate all functions on timer according to operating instructions in section 3 of this manual.
- (D) When all functions test out, disconnect the power before mounting the displays.

2.5 Electrical Connections

This timer requires one 120 V. 1 Amp AC circuit for the exclusive use of each display.

NOTE

This equipment is not yet NRTL approved but 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.

3. OPERATION

3.1 Timer Power

Turn on the branch circuits to the timers or plug in the power cords to both displays.

3.2 Console Power

Plug the control console into the main control jack.

Turn the control console on and input the code for the scoreboard.

When the code is input the timer displays should show **0**.

The timer displays will now show the game time exactly as the main scoreboard.

3.3 Horn

The horn will sound automatically each time the timers reach zero time.

3.4 Goal Light (Optional)

The light on the top of the display will light when the timer runs down to zero, to signify an end of the period.

4. MAINTENANCE AND TROUBLESHOOTING

4.1 Introduction

This section gives maintenance and troubleshooting information. Included are troubleshooting guides for typical scoreboard malfunctions. If the cause of a problem cannot be determined, please contact the customer service department.

WARNING !!!

120 VAC wires are exposed whenever the cover over the controller 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) Timers don't light but main scoreboard time is working.

- (a) Check that the main power switch for the timers is turned on.
- (b) Replace any defective or blown fuses.
- (c) Check the power connections and voltages at the timers.
- (d) Contact the customer service department.

(B) The timer digits light, the main scoreboard works, but there is no control of the timers.

- (a) With the main power switch "off"; remove the cover over the power supply, and receiver.
- (b) Check all connections.
- (c) Turn the main power on.
- (d) Turn the control console on and enter the code.

If LED D4 on the receiver board is flashing call the customer service department.

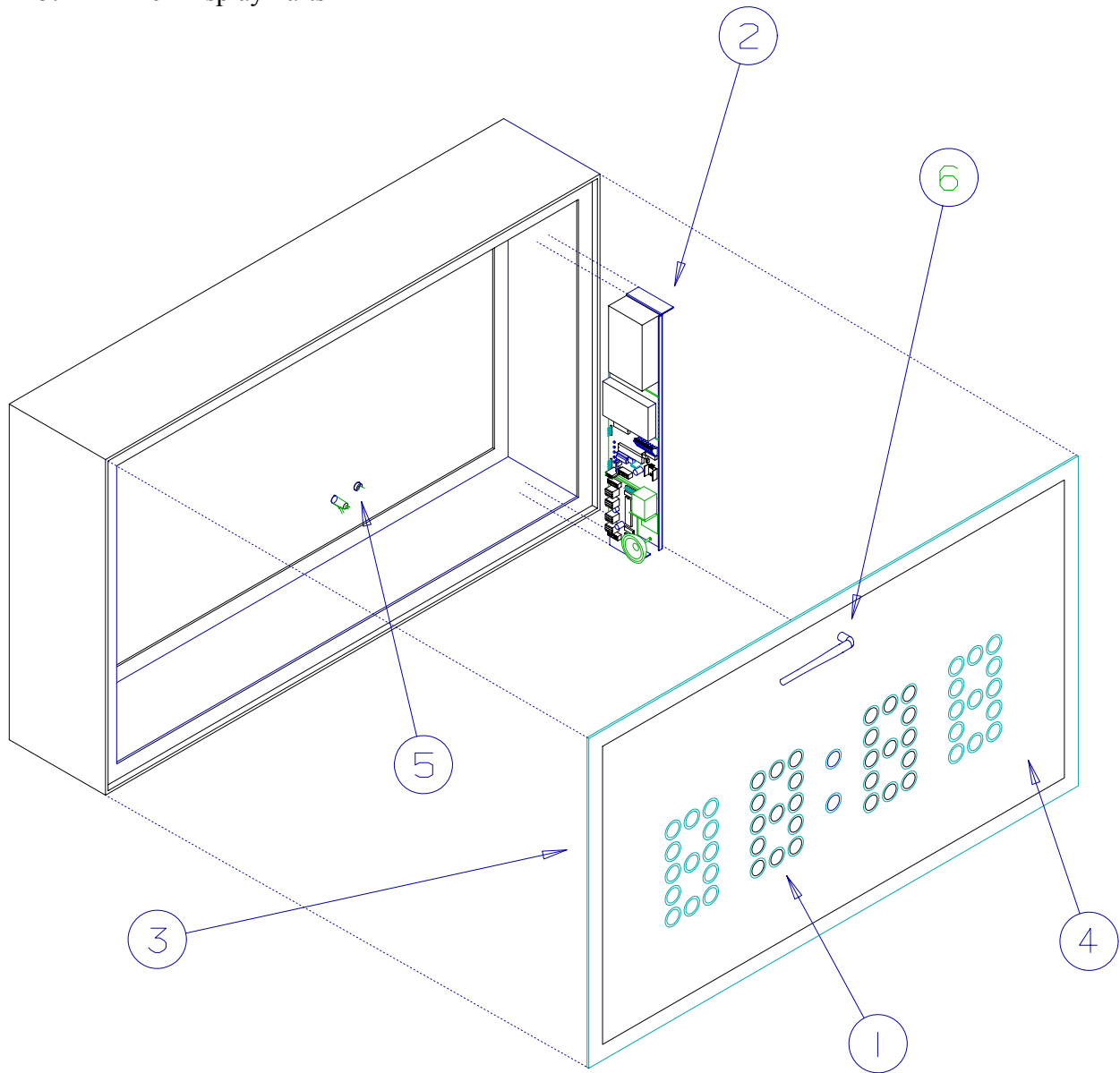
If LED D4 on the receiver board is not flashing, plug the control console directly into the top of the timer.

If LED D4 on the receiver board flashes now check any junction boxes and the data cable for continuity.

If LED D4 on the receiver board still does not flash, call the customer service department.

5. REPLACEMENT PARTS LIST

5.1 Timer Display Parts



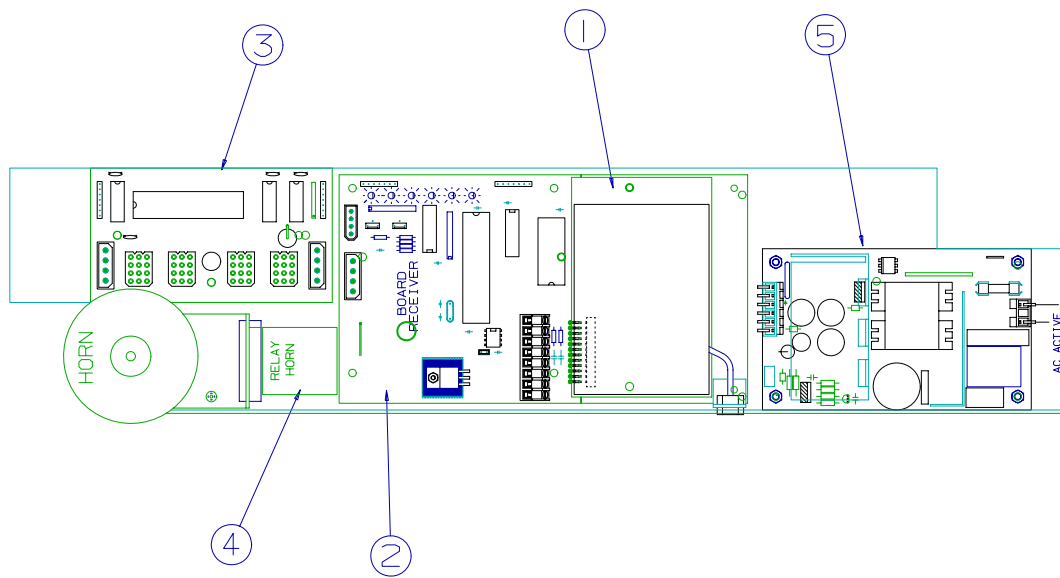
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figure 1

DISPLAY ASSEMBLY

REPLACEMENT PARTS LIST (MP-5297R)				
fig.& index	MFG PART NUMBER	DESCRIPTION	REF DES	VENDOR PART #
1-	000000	Display Assembly		000000
1-1	150821	Cluster, Amber		150821
1-2	151041	Controller Assembly SEE FIGURE 2	A2	151041
1-3	000000	Face Panel		000000
1-4	703609	Horn, 350N		703609
1-5	930895	Connector, 6 Pin Female Hirose	J3/J4	RM12BPG-6S
1-6	EL00474P	Antenna, 2.4 GHZ External		
1-7	701036	Fuseholder, Single Snap-in		342001A
1-8	701049	Fuse, 3A, 250V, 1/4 X 1 1/4"	F1	MDX-3 SL BL
		OPTIONAL RED GOAL LIGHTS		
	151225 850023	Globe, Red Light Lamp,15 Watt,130V,Inside Frosted		151225 15A15 IF

5.2 Controller Assembly Parts



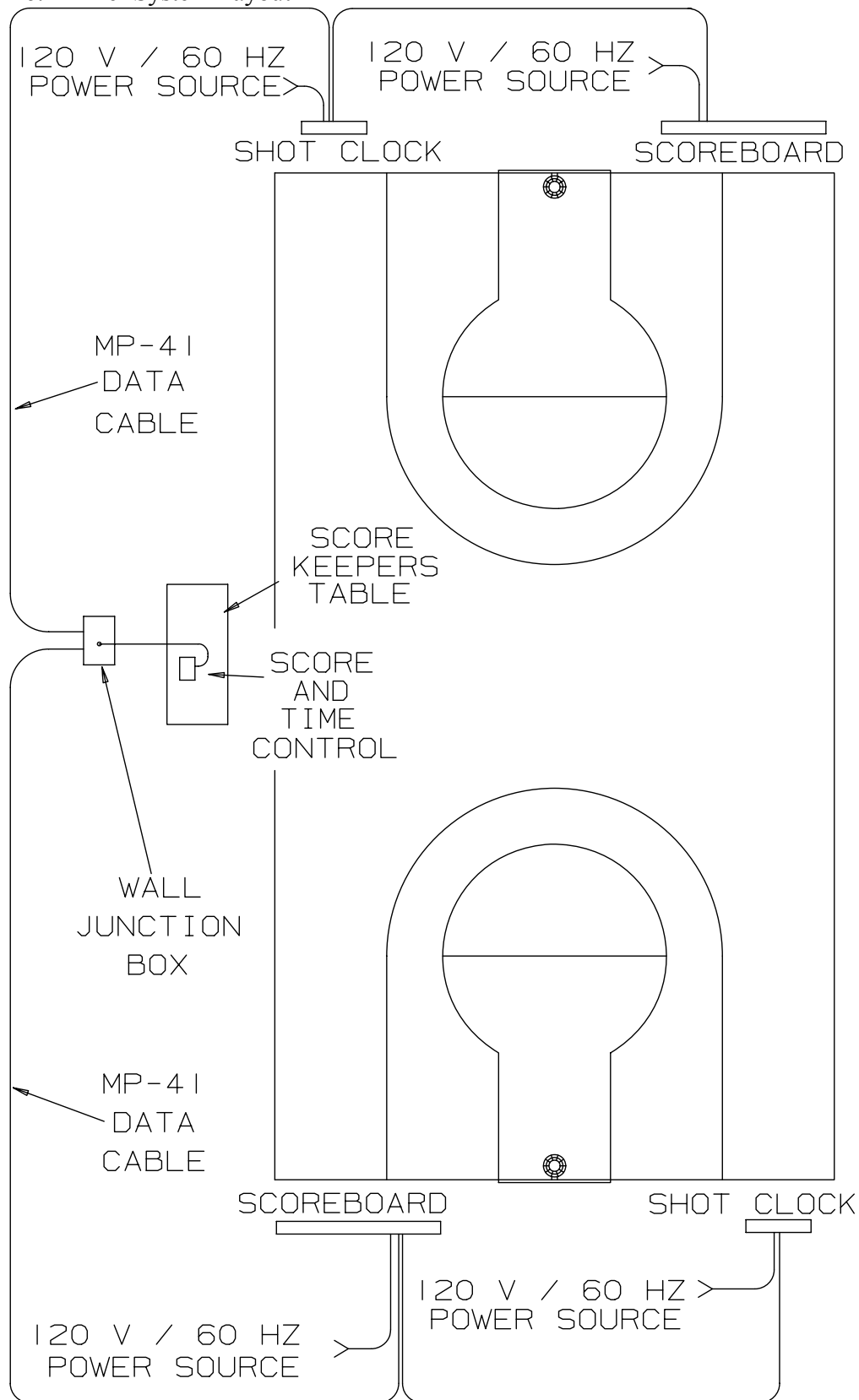
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figure 2

CONTROLLER ASSEMBLY

REPLACEMENT PARTS LIST (MP-5297R) Controller Assembly				
fig.& index	MFG PART NUMBER	DESCRIPTION	REF DES	VENDOR PART #
2-	151041	Controller Assembly	A2	151041
2-1	EL00479P	Radio Transceiver, 2.4 GHZ OEM		EL00479P
2-2	150635	PC Board Assy, 5000 Series Receiver ***** PROGRAM RX5.V102 *****	A3	150635
2-3	150634	PC Board Assy, 4 Pos. Driver	A4-A5	150634
2-4A	EL00525P	Relay, 12 VDC DPDT 10A contact	K1	MY2DC12(S)
2-4B	703118	Socket, Relay	A7	27E008
2-5	BL00032P	Power Supply, 12V 50 Watt		
2-6	930674	Cable Assy, 3" Ribbon 7C Fem.		CE 100F22-7 Pand
2-7	705723	Spacer, Amerlock		SPC# PCS-6

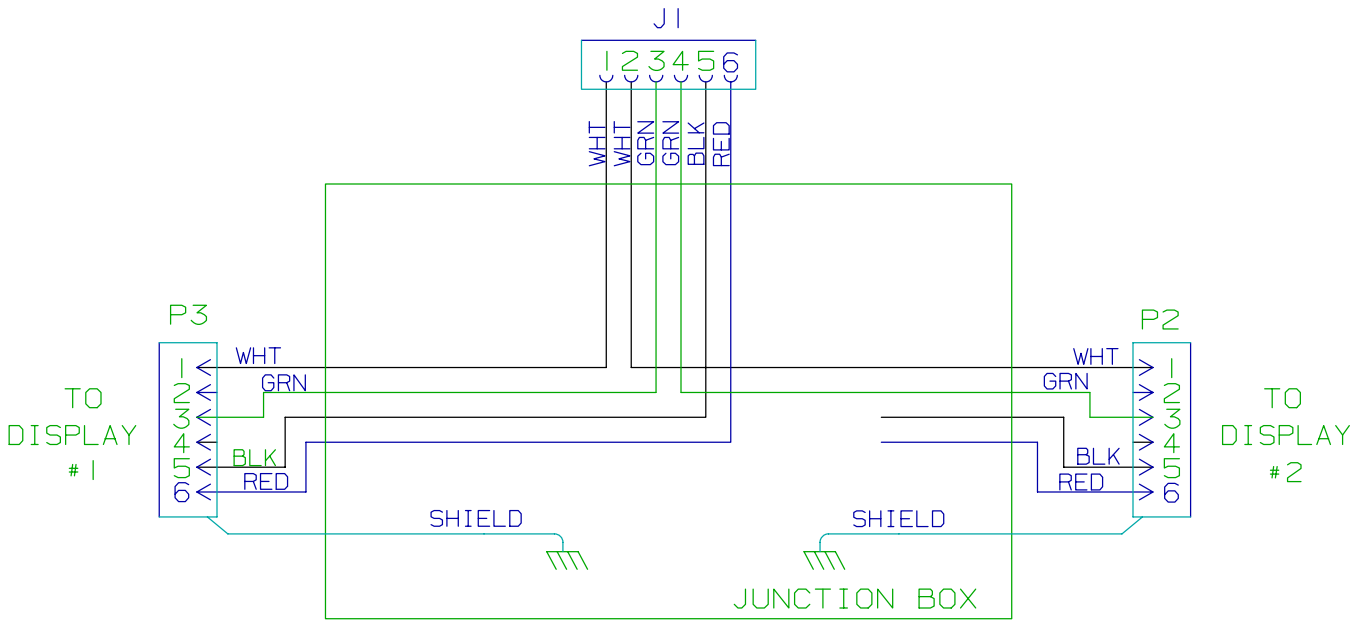
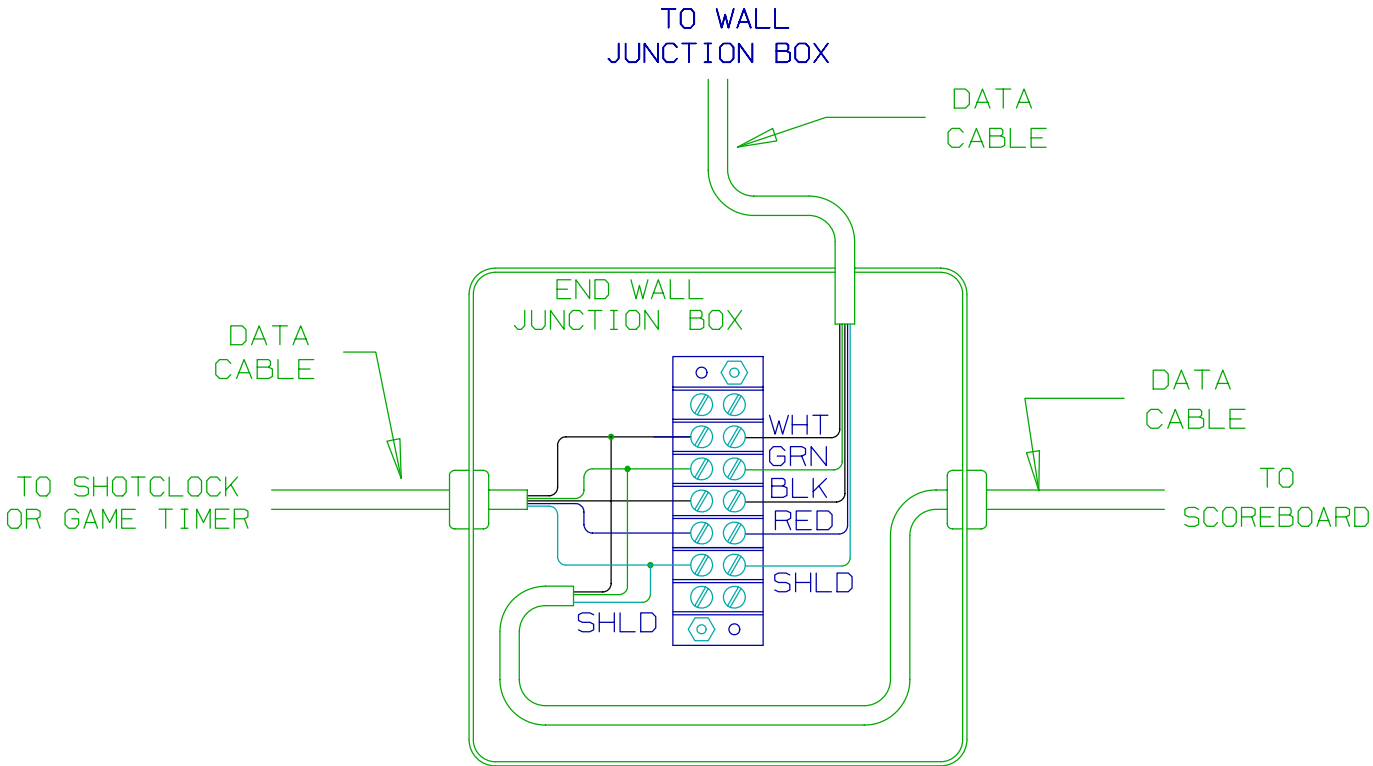
6.1 Timer System Layout



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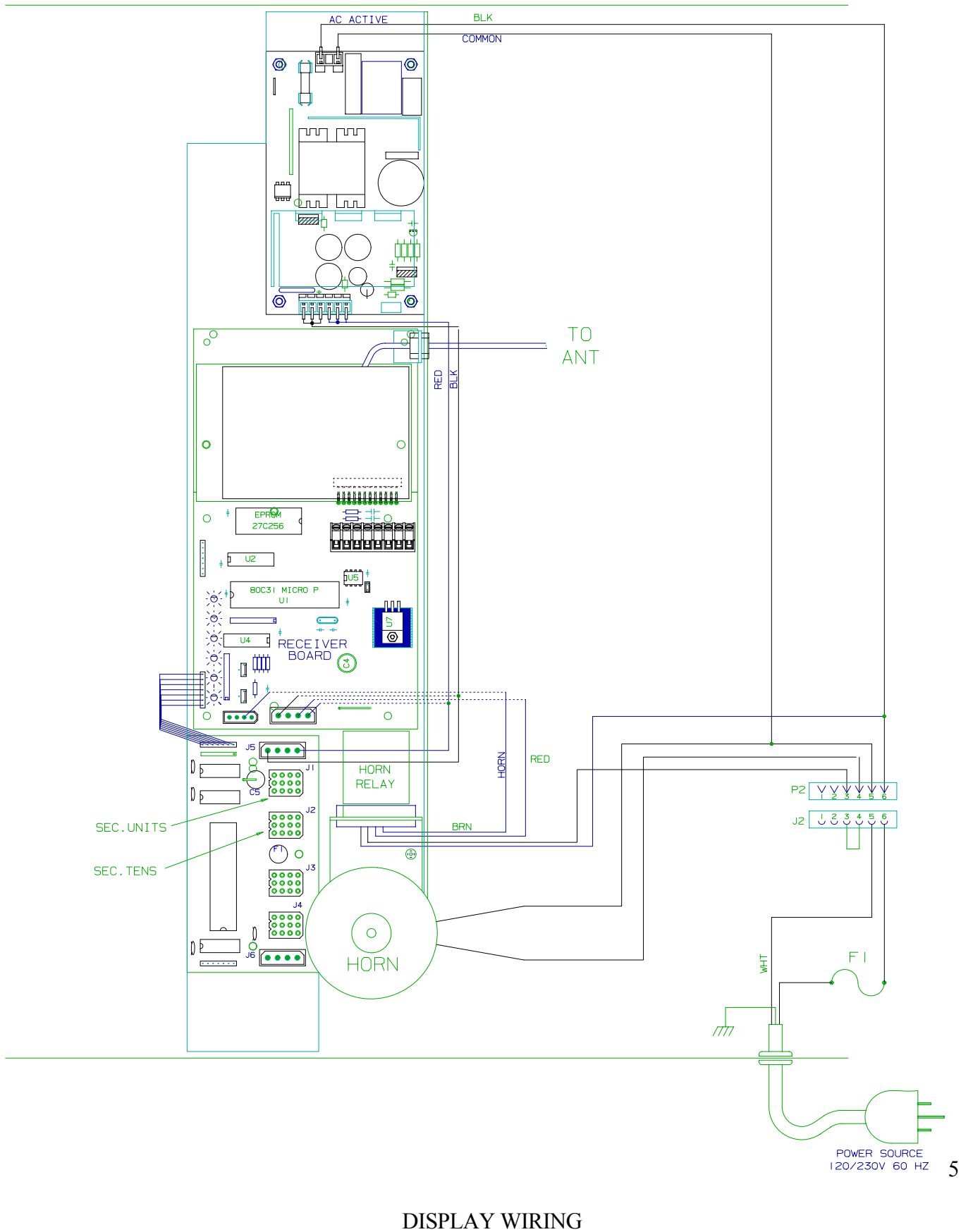
SYSTEM LAYOUT

6.2 Junction Box Wiring

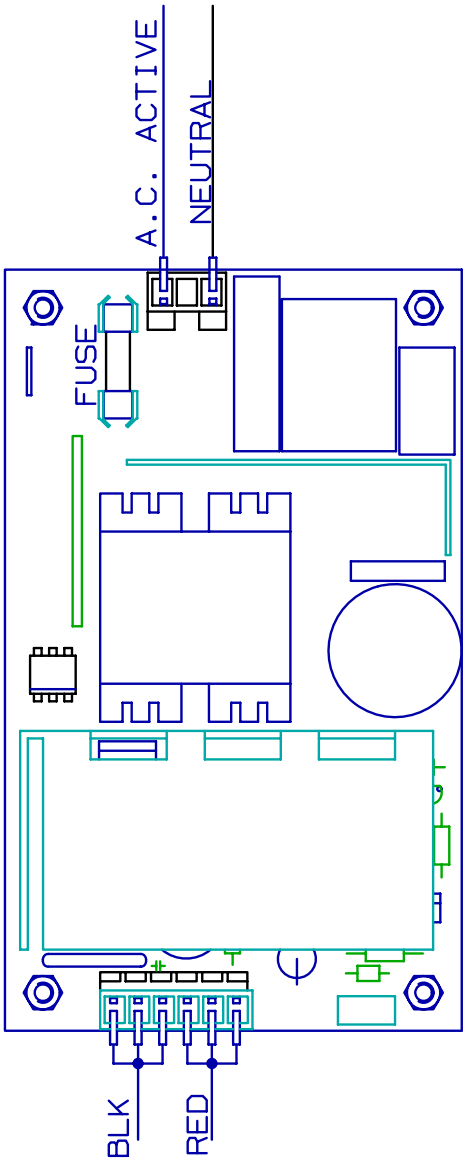


JUNCTION BOX WIRING

6.3 Display Wiring and Layout



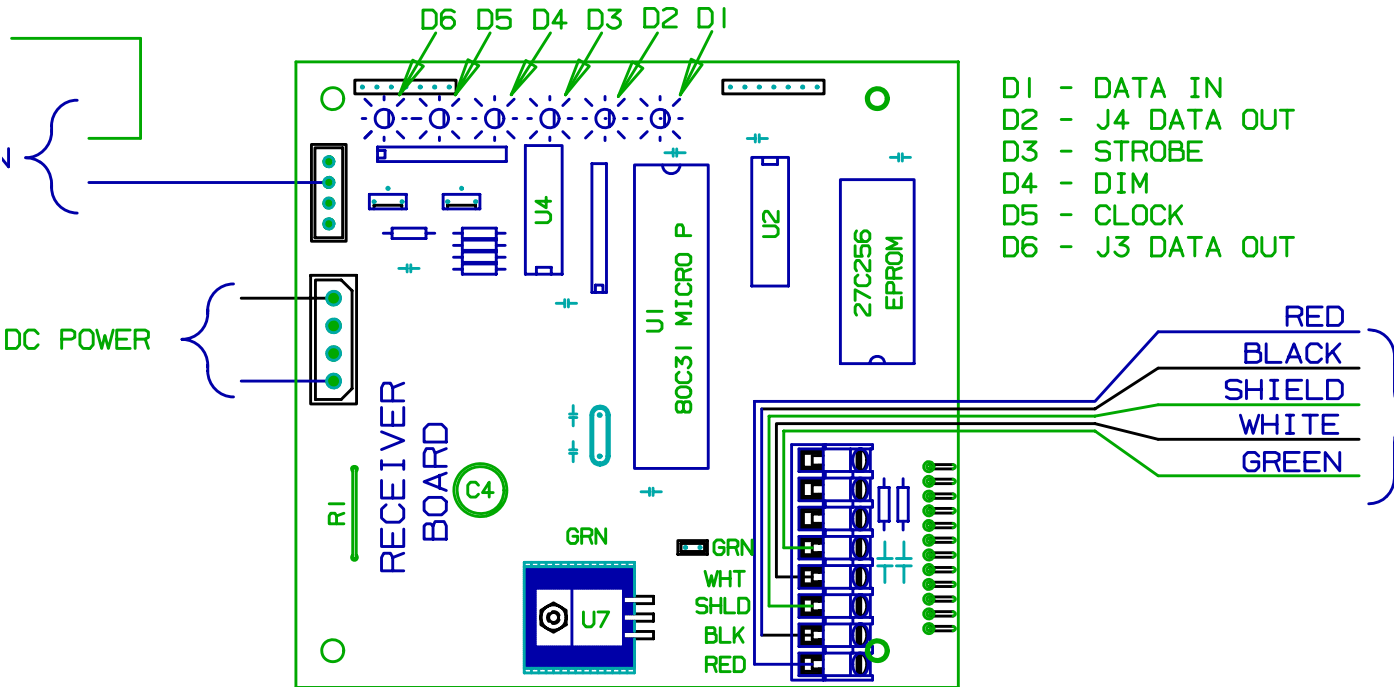
6.4 Power Supply Diagram



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POWER SUPPLY

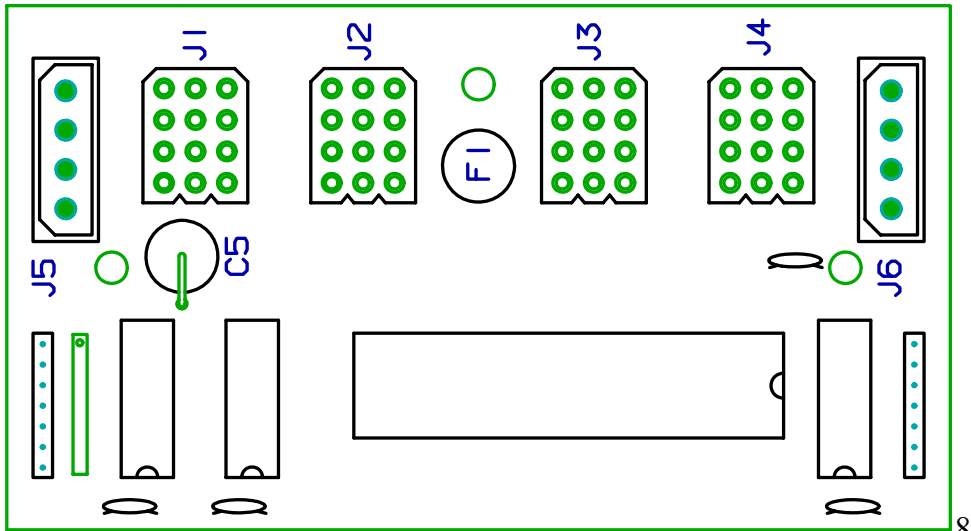
6.5 Receiver Board Diagram



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RECEIVER BOARD

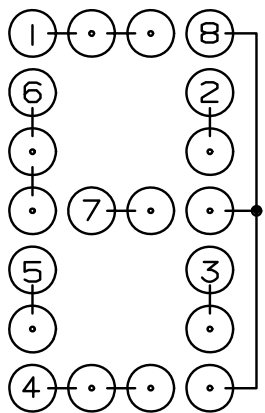
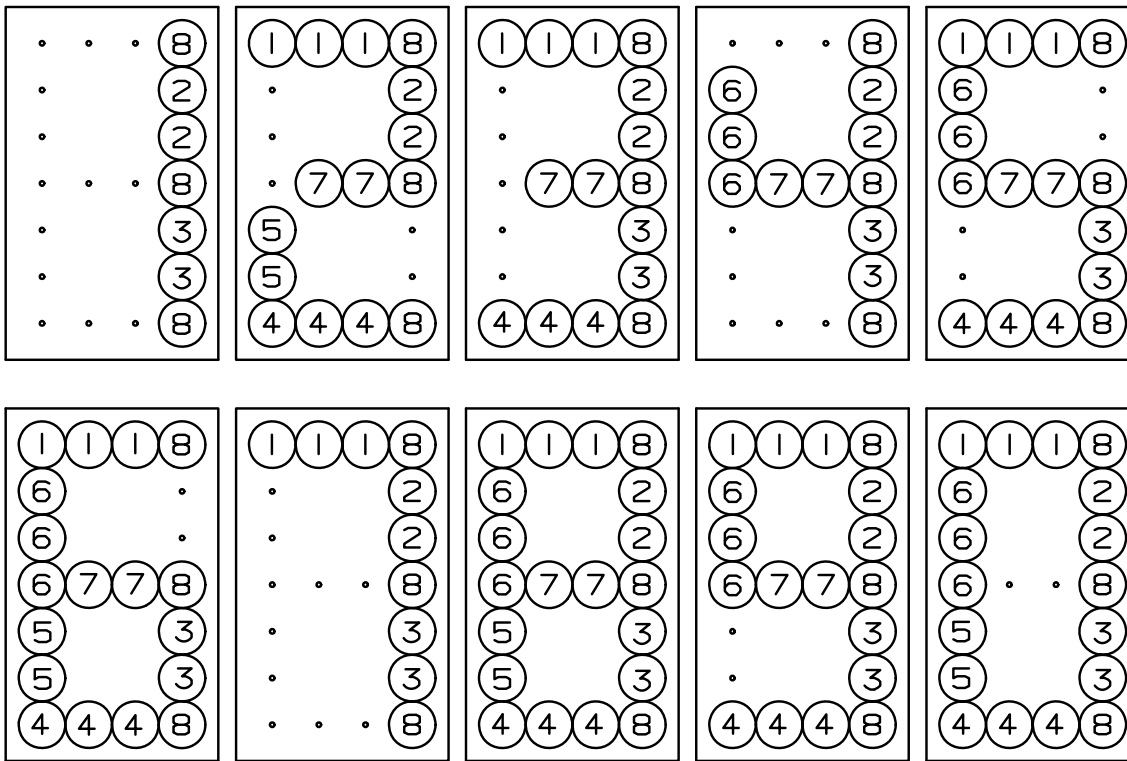
6.6 Driver Board Diagram



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DRIVER BOARD

6.7 Microprocessor LED Patterns (8 Bit)

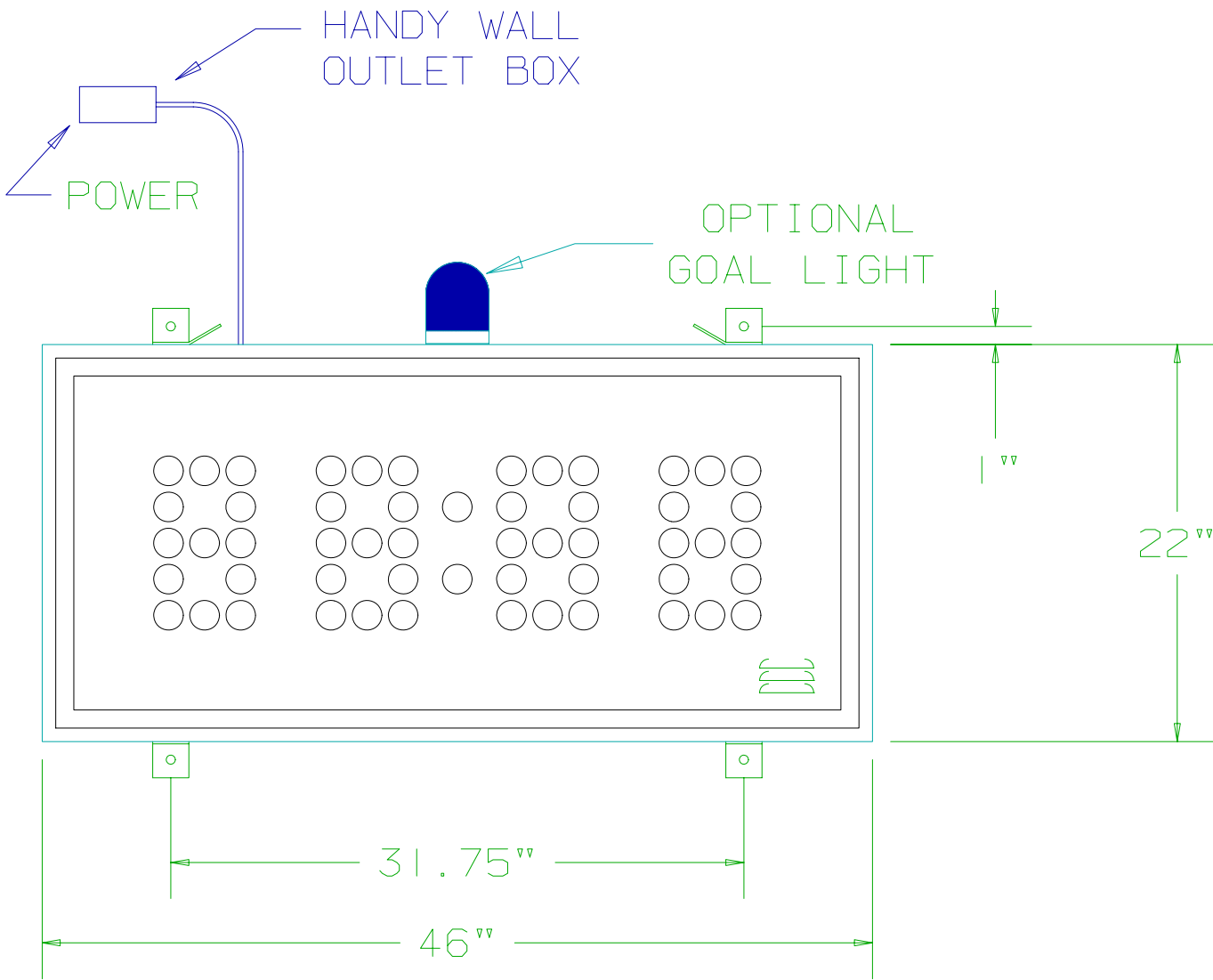


		NUMERALS									
		0	1	2	3	4	5	6	7	8	9
BIT NUMBERS	1	0	.	2	3	.	5	6	7	8	9
	2	0	1	2	3	4	.	.	7	8	9
	3	0	1	.	3	4	5	6	7	8	9
	4	0	.	2	3	.	5	6	.	8	9
	5	0	.	2	.	.	.	6	.	8	.
	6	0	.	.	.	4	5	6	.	8	9
	7	.	.	2	3	4	5	6	.	8	9
	8	0	1	2	3	4	5	6	7	8	9

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LED PATTERN

6.8 Installation Diagram



INSTALLATION DIAGRAM