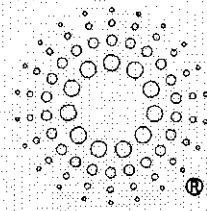




A product of



Everbrite

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

OPERATING INSTRUCTIONS AND SERVICE MANUAL  
RACETRACK SCOREBOARD  
MODEL MP-3801

## 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 5 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 on the face 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 Control Console
- 1 ea Service Manual
- ? ft Control Cable (if ordered)

#### **IMPORTANT!**

The MP-40 cable supplied by ALL AMERICAN SCOREBOARDS for use on the Microprocessor based scoreboards is specifically designed for this system. Use of a substitute cable may void the warranty on the scoreboard!

### 2.2 Inspection

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

### 2.3 Installation

Select the location best suited for visibility by the majority of spectators. Preferred position is facing east or north to avoid direct sunlight on the face of the scoreboard, if day games are played.

The MP-41 data cable carries only low voltage signals and therefore can be installed

with or without conduit. consult section 6 for junction box and scoreboard wiring.

## 2.4 Electrical connections

**NOTE !**

To protect the MP-3000 control from damage, it is advisable that you disconnect the control and store in a dry secure area when not in use.

**NOTE**

This equipment is **ETL** (Electronics Testing Laboratories) **CSA** and **NRTL** approved and 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. CONTROL CONSOLE OPERATION

#### 3.1 Console Display

The 2 line by 20 character Liquid Crystal Display module displays the scoreboard information entered from the keyboard.

#### 3.2 Console Power

Plug the electric eyes cable into the control console connector marked "EE".

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

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

When first turned on; the LCD should show as follows:

**RACE TIMER**  
**VERSION 2.6 1998**

Enter the code (87) as follows: Push **CODE** **8** **7** **ENTER**.

When the proper code has been entered, the scoreboard will be in the race mode and the LCD will show as follows:

**^** **:00.000^**  
**EE**

If EE is not displayed, Push: **E. EYE ENABLE**.

The electric eyes will now operate the console timer, or the pendant switch will simulate the eyes.

Push **RESET TIME** to prepare for the next contestant.

Push **E. EYE ENABLE** at any time to disable the electric eye.

## 5. REPLACEMENT PARTS LIST

### 5.1 Scoreboard Display Parts

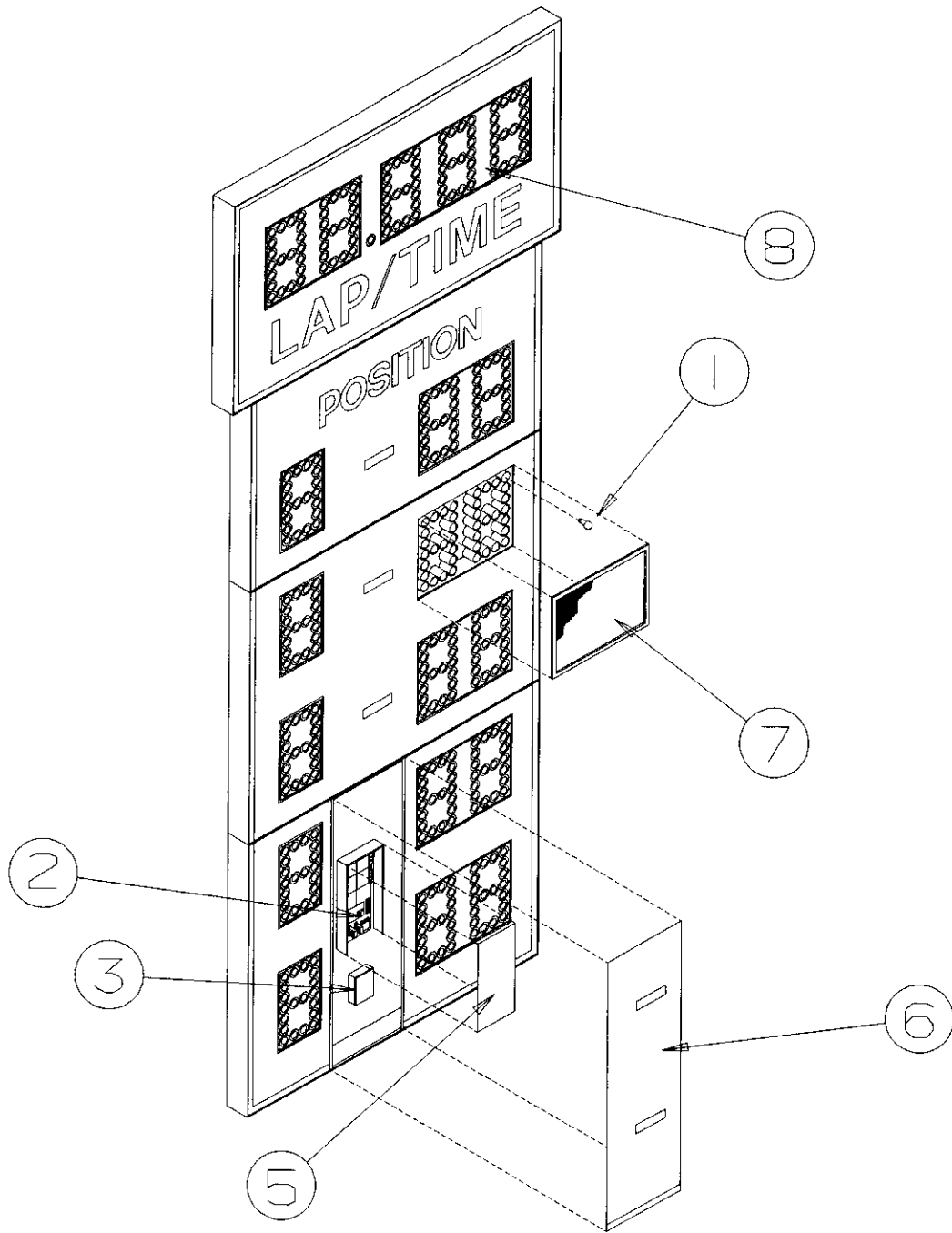


figure 1

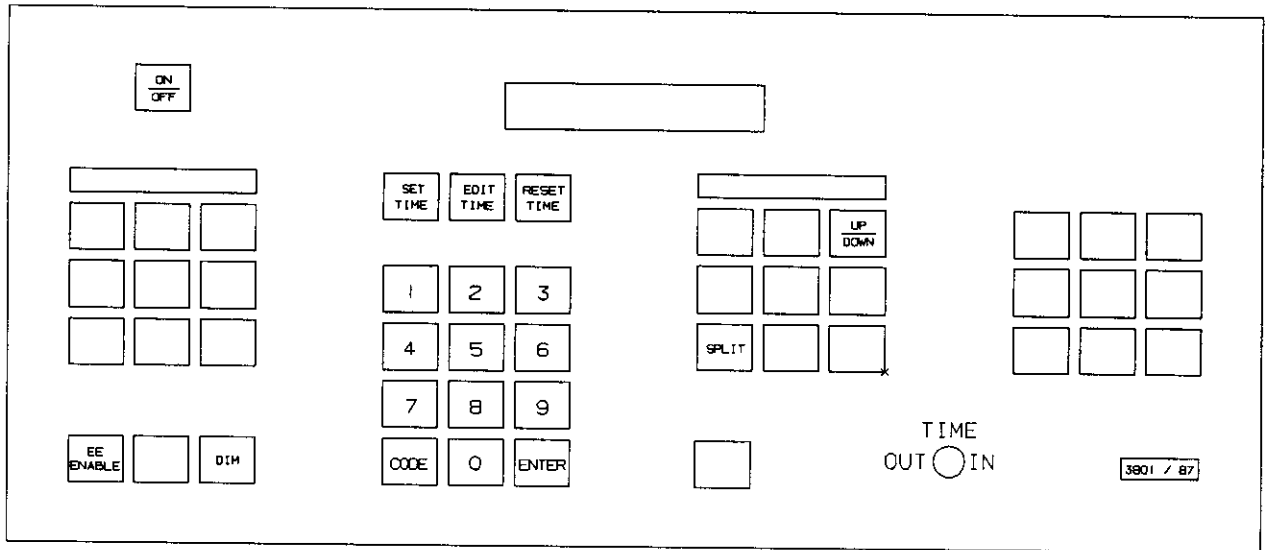
DISPLAY ASSEMBLY

REPLACEMENT PARTS LIST (MP-3820 Racetrack)

fig. & index	MFG PART NUMBER	DESCRIPTION	REF DES	VENDOR PART #
1- 1-1  1-2	150221 850030  150249	Display Assembly Lamp, 25W/125V Clear  Controller Assembly *****SEE FIGURE 2*****		150221 25A19 GR CL  150249
1-3 1-4 1-5 1-6 1-7 1-8 1-9	121880 EL044100 EL00083 000000 117456 150232 117457	Fuse, 15A 250V Resistor, 2 OHM 30 WATT Rainshield Access Panel Screen, Car Number Screen, 24 X 48 13/16 Screen, Position	F1-F7	ABC-15 (3AG) HL-24-09Z EL00083 000000 117456 150232 117457
	SU4450 HB005500 HB002300 702785 702786 EL053000 HB002400 WH009100 122763	Control Console Slipsheet Pair Transmitter Board ** Program MP3TMR1.HEX ** Connector, 5 Pin Male Cable Connector, 5 Pin Female LCD Display, 2 Line 20 Character Keyboard Assembly, Ribbon Cable Assembly, 14C 8" Enclosure,	A1 P1 J1/J4	SU4450 HB005500 HB002300 RM12BPG5P RM12BRD5S  HB002400 WH009100
	151204 702786 150500 000000	Junction Box, Single Connector, 5 Pin Female Cable, MP-41 Control Terminal Strip, 7C	J1/J4	151204 RM12BRD5S 8723 670-7
	121814  150257	20' Cable Assy W/2 male 5c con.  Optional Electric Eyes		121814  150257

## 6. DIAGRAMS

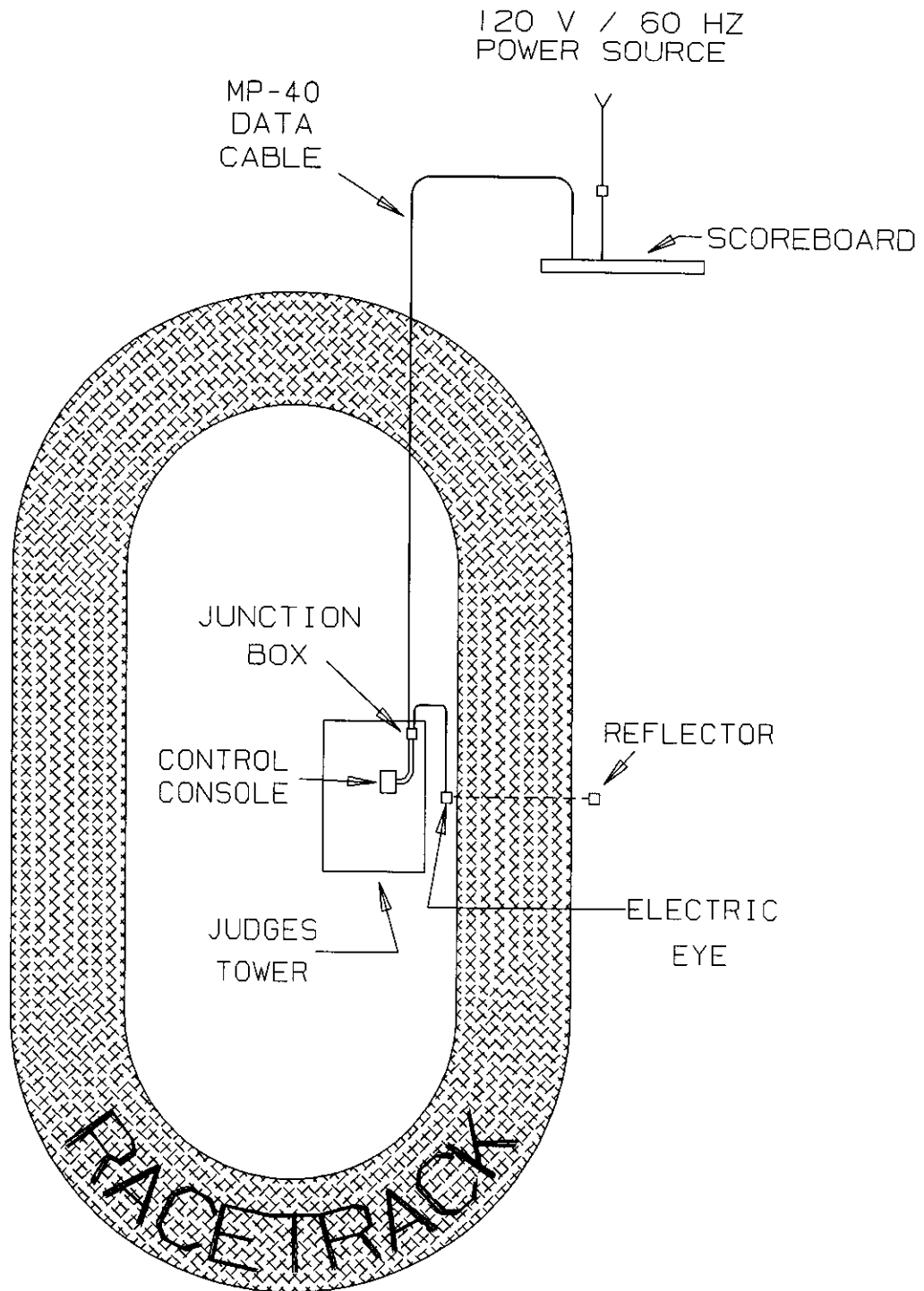
### 6.1 Control Console Keyboard and Slipsheet Layout



CONSOLE KEYBOARD

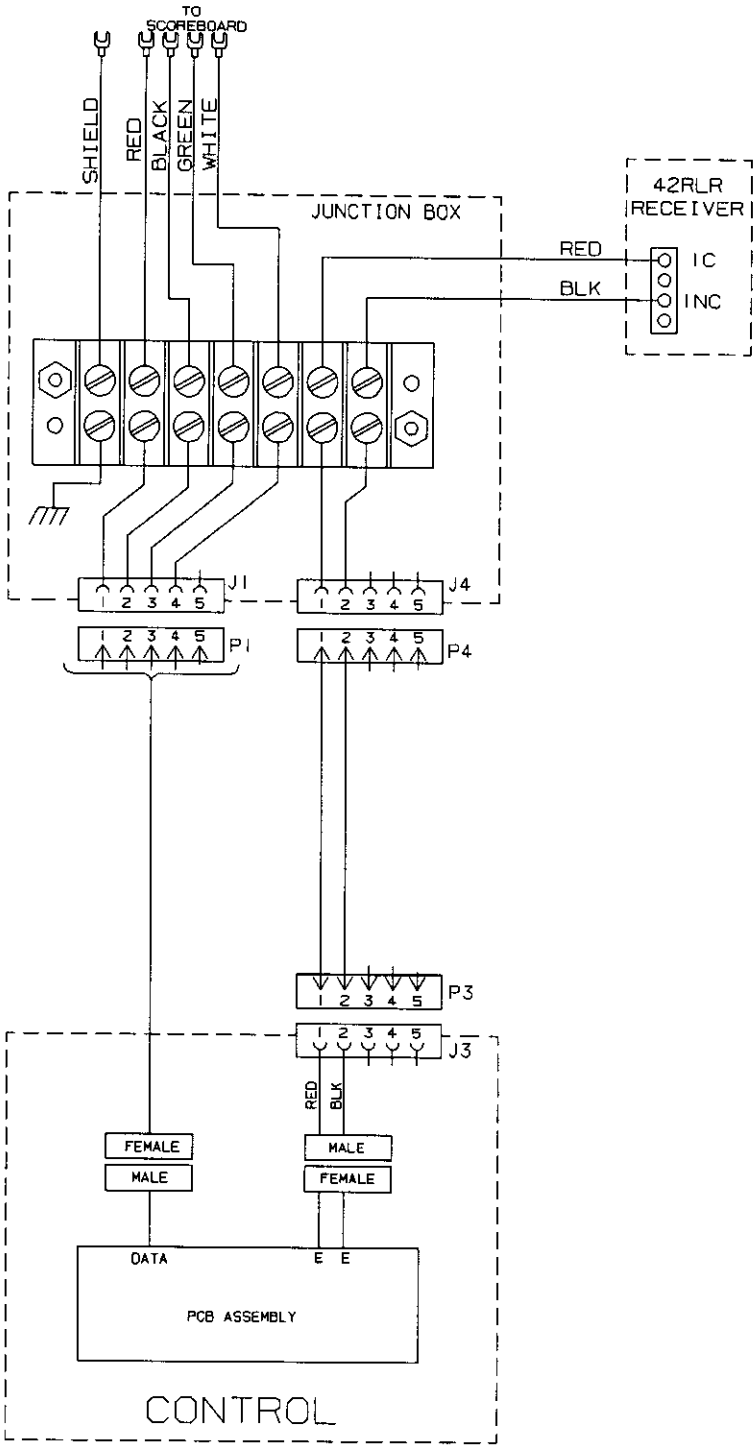


## 6.2 Scoreboard System Layout

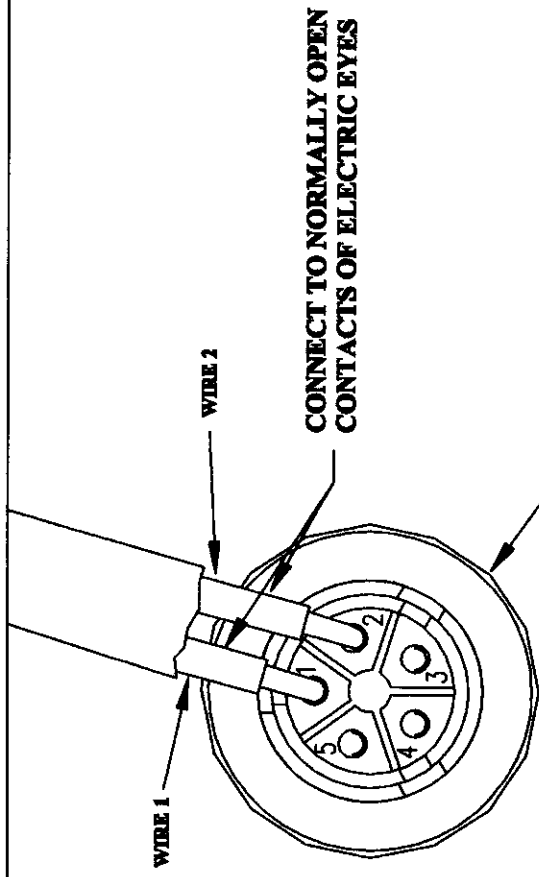


SYSTEM LAYOUT

### 6.3 Junction Box Wiring



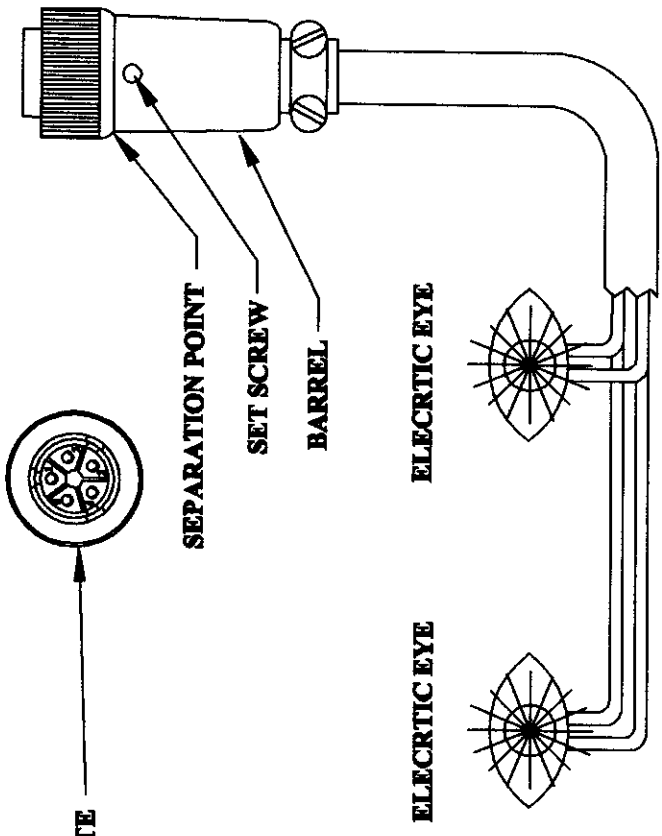
SINGLE JUNCTION BOX WIRING



CONNECTOR WIRING	
PN 1	WIRE 1
PN 2	WIRE 2
PN 3	NOT USED
PN 4	NOT USED
PN 5	NOT USED

**REAR VIEW**

**SIDE VIEW**



**CONTACT PLATE DETAIL**

**NOTE \***  
 1.) REMOVE SET SCREW AND UNSCREW CONNECTOR BARREL FROM CONTACT PLATE  
 2.) SLIDE CABLE THROUGH GROMMET AND CONNECTOR BARREL BEFORE SOLDERING WIRES TO CONTACT PLATE

BILL OF MATERIALS		
DESCRIPTION	PART NO.	QUANTITY
CON, SC MALE	702785	1
GROMMET	701420	1

FORM OR	RACE TRACK TIMING SYSTEM		
TITLE	ELECTRIC EYE CONNECTIONS		
REV	A	PROJ NUMBER	CUSTOM
DATE	5/23/01	REV	A
DRAWN BY	C. BOSSHARD	SHEET 1 of 1	