ALL AMERICAN SCOREBOARDS

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

EFFECTIVE S.N. 17,220, May 24, 2001

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

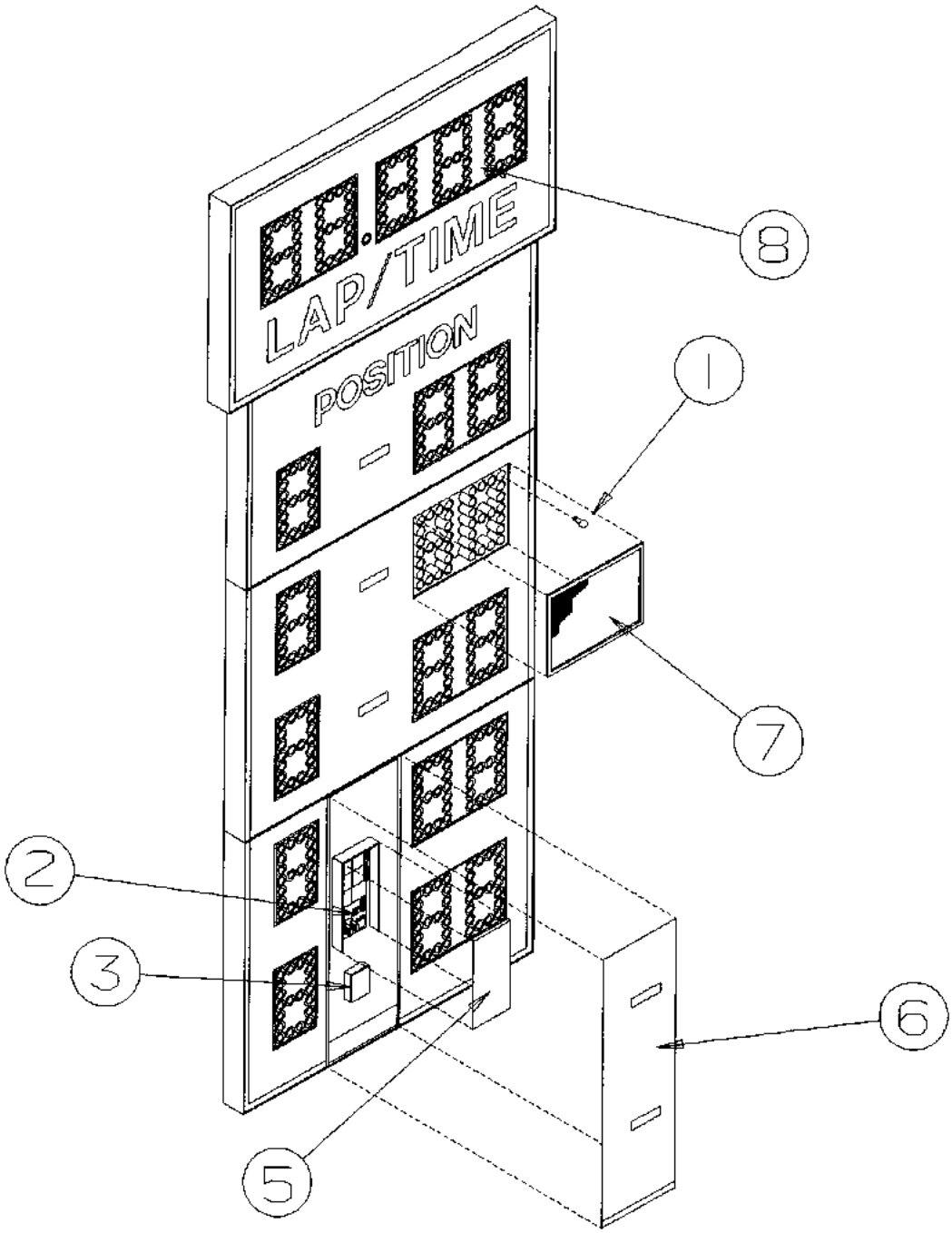


figure 1

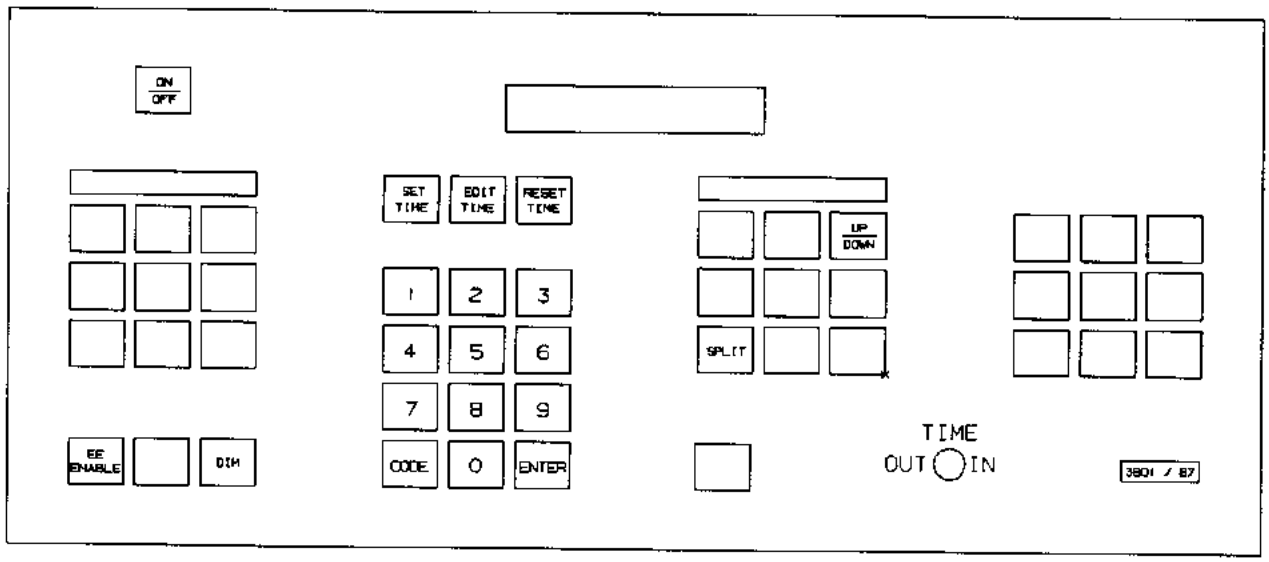
DISPLAY ASSEMBLY

REPLACEMENT PARTS LIST (MP-3820 Racetrack)

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

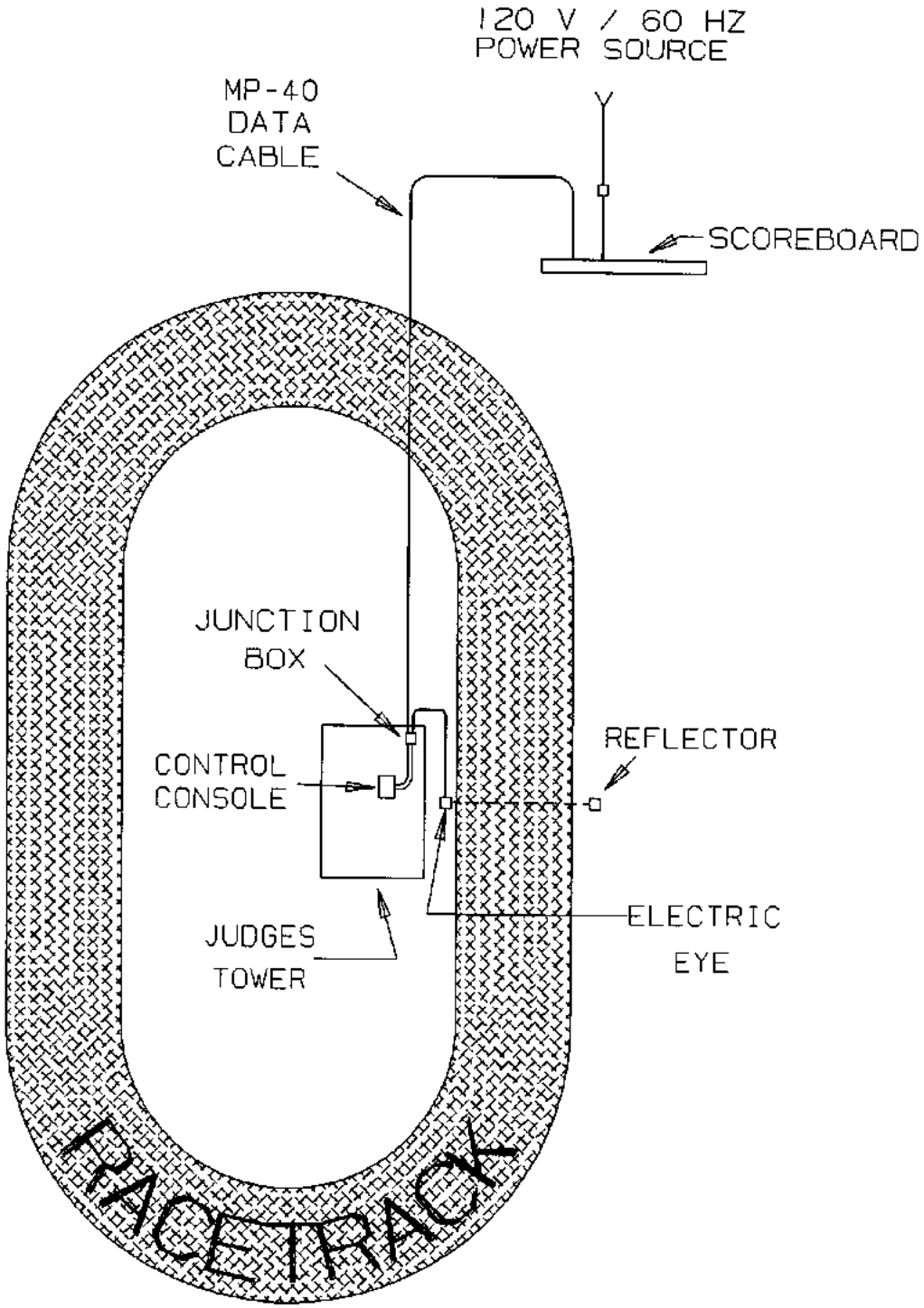
6. DIAGRAMS

6.1 Control Console Keyboard and Slipsheet Layout



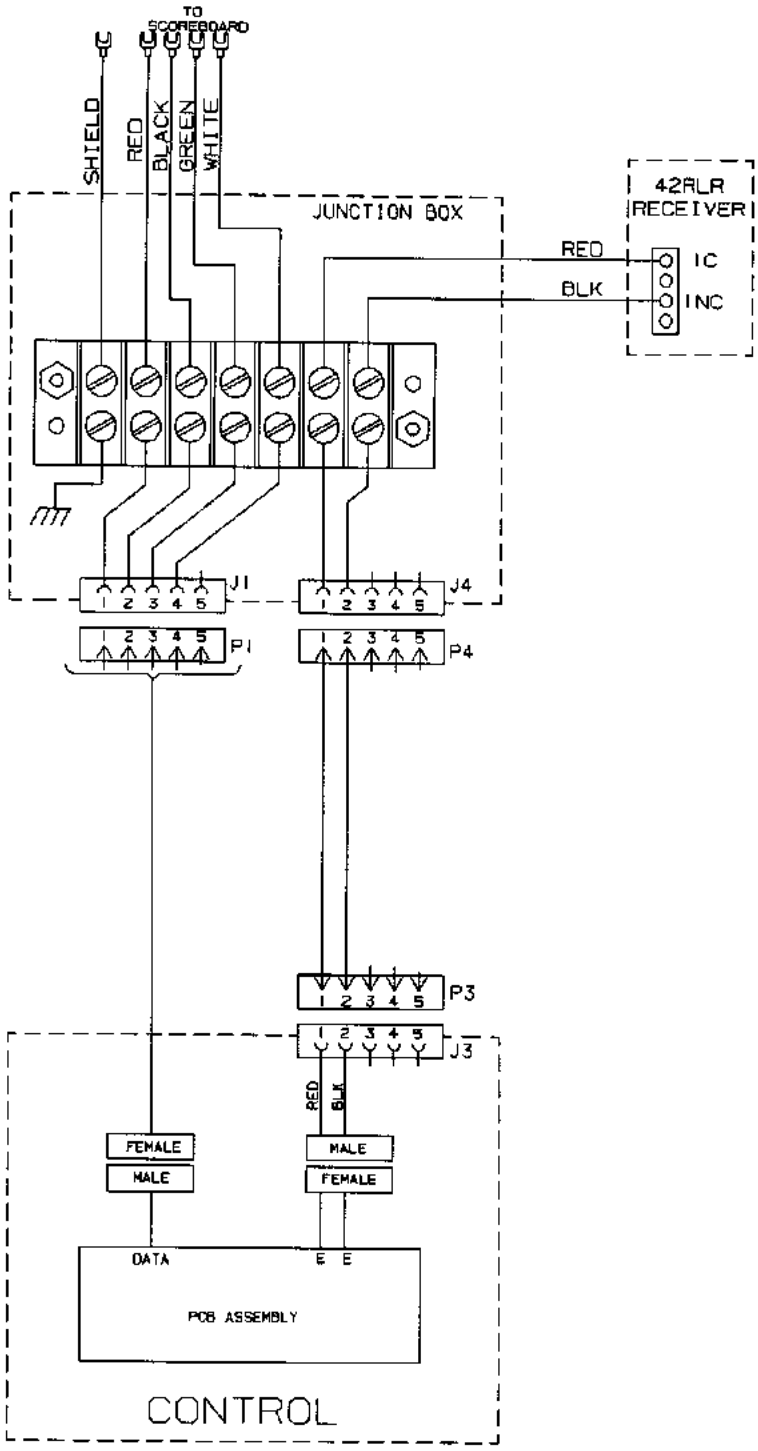
CONSOLE KEYBOARD

6.2 Scoreboard System Layout

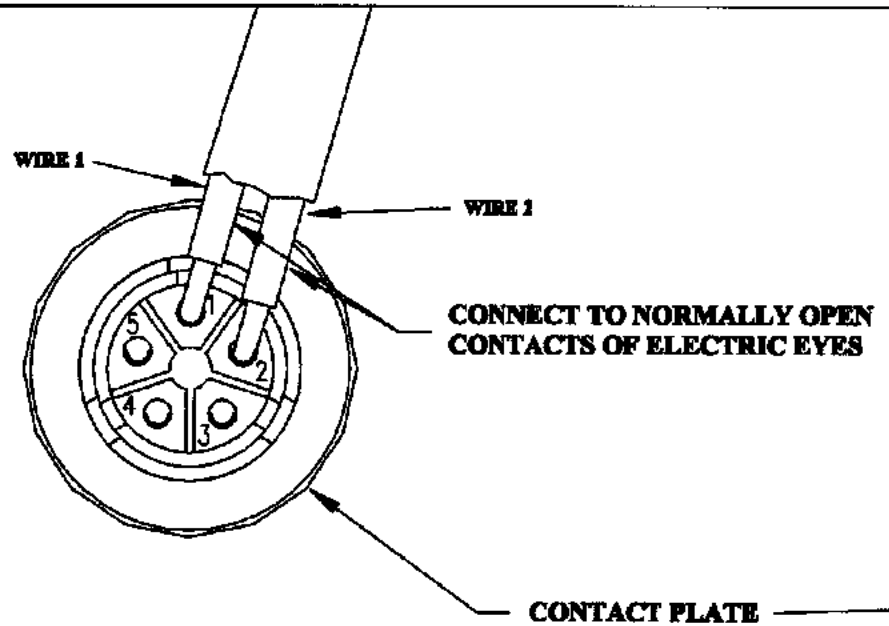


SYSTEM LAYOUT

6.3 Junction Box Wiring



SINGLE JUNCTION BOX WIRING

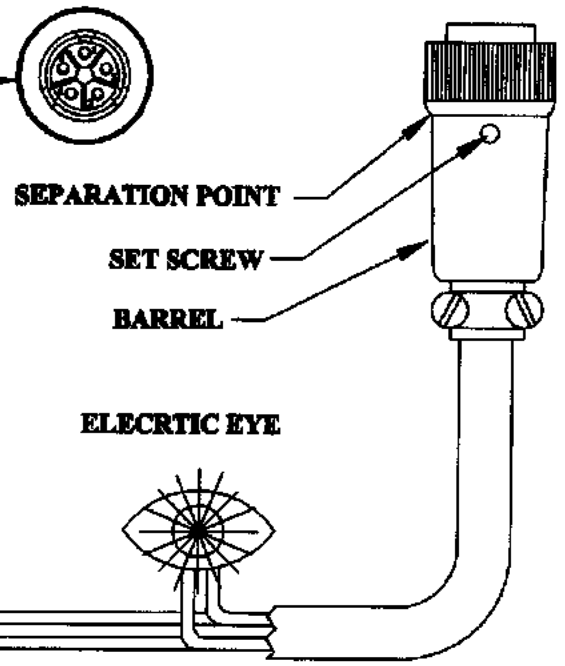


CONNECTOR WIRING	
PIN 1	WIRE 1
PIN 2	WIRE 2
PIN 3	NOT USED
PIN 4	NOT USED
PIN 5	NOT USED

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, 5C MALE	702705	1
GROMMET	701420	1

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