

# Bowl-Tronics Enterprises Incorporated

Address: 1115 Sherwood Ave.  
Elgin IL. 60120  
Website: [www.bowl-tronics.com](http://www.bowl-tronics.com)  
e-mail: [rick@bowl-tronics.com](mailto:rick@bowl-tronics.com)

Phone: 847-741-4500  
Fax: 847-741-0914

## Infrared Ball Detect (IRBD)

### Infrared Ball Detect Theory

The infrared ball detect is designed to replace the existing Brunswick ball detect for your 79 scanner. By using an infrared beam that transmitted across to a reflector and then refracted back to photo transistor is how the ball is detected.

### Installation Instructions

*Remember to remove power before performing any installation!!*

First, start by removing the old optic and its reflectors. Next, you will utilize the mounting screws provided and plate that is already there. Mount the new reflector in the location of the old one with the hardware provided. Mount the optic on the existing plate and utilize the mounting screws to secure to the plate. Plug the white 4 pin Molex connector into the DA board and the 2 pin white Molex connector to power. Finally, power up the optic and align by using the LED's on top. If the LED's are lit the optic is aligned properly. Note: On some older DA boards the green pin is not soldered to ground on the board. This pin must be hooked to ground for the IRBD to work.

#### Wire Diagram For Four Pin Molex Connector

White wire = Right output  
Green wire = Ground  
Red wire = 5 VDC supply  
Black wire = Left output

#### For Repair Send Faulty Parts to:

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Elgin IL. 60120

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Fax: 847-741-0914

Visit our web site at [www.bowl-tronics.com](http://www.bowl-tronics.com)

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