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## Installation Instructions for 16534 Twilight Zone Trough Proximity Board

Thank you for purchasing the Pinpoint 16534 replacement circuit board set. This board set features improved sensitivity and incorporates an adjustment feature not found on the original. It also uses a different sensing coil which requires relocating the mounting bracket holes at the trough, described below. The red LED is on when a steel pinball is detected in the trough. Turn game off before any service is performed.

1. Remove old trough and switch interface boards from the playfield.
2. Remove the interconnect wiring from the two boards and save for reuse.
3. Drill out the two 1/8" rivets from the original trough board. Save the bracket for reuse.
4. Install the bracket onto the new 16535 trough board with the same orientation as the original. See Figure 1 for a representative example.

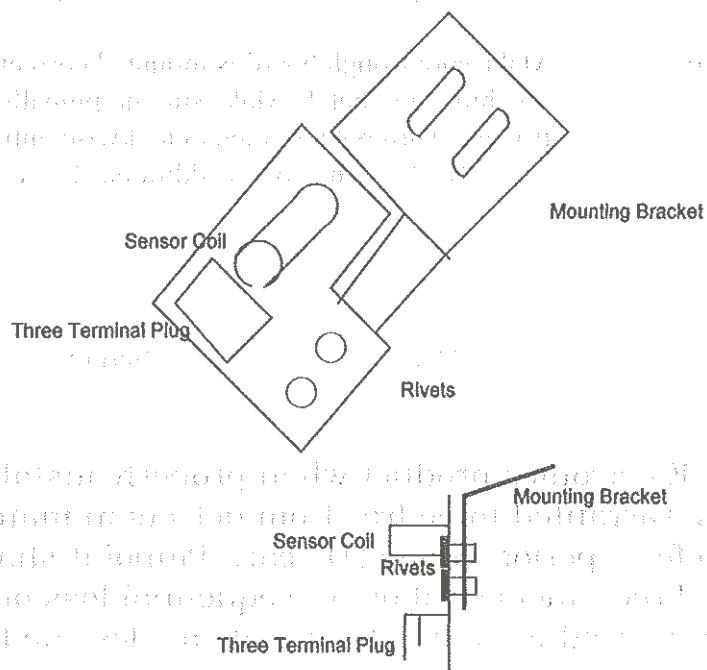


Figure 1



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5. With a pinball in the trough, hold the new trough board and bracket up to the ball trough so the blue sensing coil is centered in the gap and is about 1/8- 3/16" away from the pinball. Mark the oval mounting holes.
6. Install the screws into the bracket so that they are roughly centered in the middle of the mounting slots. This will allow for adjustment later if needed. Shallow pilot holes may help with screw installation. A piece of tape wrapped around the drill bit will act as a depth guide and prevent the bit from going too deeply into the playfield.
7. Swap the standoffs from the old 16534 switch interface board to the new board and install with the original mounting screws.
8. Install the interconnect cable and wiring plug from the game.
9. Turn the potentiometer counter clockwise to increase sensitivity, clockwise to lessen sensitivity. The pot is set for an average value as the board is tested, so little to no adjustment should be needed. Typical range of adjustment is about three turns. You may need to increase or decrease sensitivity a little for your particular game. If the game never detects the Powerball (red LED always on), try making the board less sensitive by turning the pot clockwise. The board has a detection range from contact to about 1/4".

#### Troubleshooting:

- |                         |  |
|-------------------------|--|
| Red LED never comes on. | Check for +12 volts and ground at the switch board.<br>Turn pot counter clockwise until red LED comes on.<br>Once the LED is on, turn the pot clockwise until LED goes off. Turn pot an additional 1/2 turn clockwise. |
| Red LED never goes off  | Make sure trough board is mounted correctly and not touching any metal. Make sure no pinballs are in the trough. Turn potentiometer clockwise until the LED goes off. Turn the pot an additional 1/2 turn clockwise.   |