

# EZTronic Basic Servo Kit

Advanced Technology for Turnout control

## Introduction

Our chosen micro servos are rugged and appropriate for robotic use. They should provide a very long life on your layout. This kit comes with everything you need to support a turnout that uses a non-metallic frog. Our turnout solution uses a paperclip to form the actuator that is tied to the servo horn. The paper clip has proven to be a very good source for a reliable actuator. It is strong enough to move even a stubborn pair of points on a switch and fit the center of commercial HO scale turnouts. We provide three different horns in our kit, use the one you prefer. Our Installation manual provides full details on how to prepare your turnout and assemble this kit for use on your layout.



## Product Overview

Unlike stall motor machines, this servo-based solution allows for precise locating of the bracket at the turnout. This is accomplished using our unique alignment tool which allows you to align the bracket exactly where it needs to go and can be accomplished from either the top or bottom of the turnout location. No more guessing. The template is included as part of the HO Turnout Controller when you purchase it.

## Key Features

- Goof-proof alignment: Get your turnout bracket perfectly aligned. Refer to our Installation Guide for complete details on how to use our alignment tool and how to form the paper clip to attach to your servo horn.
- Custom 3D printed bracket: The bracket takes into consideration a number of key features including support for three specific servo mounting heights depending upon the thickness of your roadbed. Our bracket supports mounting locations for ¼”, ½” and ¾” roadbed thicknesses.
- Pre-drilled bracket holes: Our brackets can readily accept a standard #6-32 thread by simply holding the bracket and starting the screw. You can use any screw of the appropriate length for your specific application. We find it useful when we are aligning the bracket from the top of the table surface as one hand holds the bracket underneath while the other can screw into the bracket from the top. See our Installation Manual for all details and options.
- Full horn kit: We provide 3 horns for use with your servo motor. We normally using the single straight horn. Note, you may choose any of the horns we include that may work out best for your application. All servo mounting hardware and horn mounting hardware is included

## Technical Specifications

- Servo Input Voltage: 5VDC as provided by the EZTronic HO Turnout Control Board
- Servo control: Pushbuttons – alternate action of each button. Buttons are all NO/MC type (Normally open/momentary close) and logic for operation is provided by our HO Turnout Control board.
- Servo Centering Feature: To assist in alignment, we provide a “servo centering feature” which allows you to center the servo’s position prior to installing the horn assembly. This helps with initial alignment at the turnout location on your layout. (Hold down button-1 before power up causes all servos to “center” to assist in alignment of horn(s) prior to installing bracket on your layout) Read complete details in our Installation Instruction Manual
- EZTronic Part Number: EZ-Basic Servo-Kit