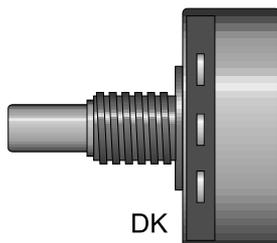
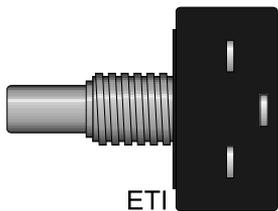


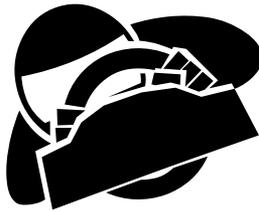
USB

# T SW T SW 2

## Potentiometer Installation Guide



**Thomas Enterprises, Inc.**  
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## Section 1: Installing Replacement Potentiometers

# Potentiometer Replacement

### Tools Required:



2x  
1/2"



7/16"  
Nut Driver



1/8"  
Allen Wrench



Small Straight  
Screwdriver



Medium  
Phillips

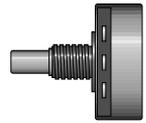
A potentiometer is a device which translates mechanical rotation into variable resistance. The computer can read the variable resistance and translate that into a change in the steering, brake, or throttle in the game. There is one potentiometer in the steering controller, and one for each pedal for a maximum of 4 potentiometers, if your controller has a clutch pedal.

Potentiometers don't last forever, they do have a wear factor, and will eventually need to be replaced. The most common symptom of a failing potentiometer is when you experience erratic calibration behavior and/or twitchy behavior on-track. On average you can expect to get 6 months to 1 year out of the medium grade DK potentiometers, and about 1 to 3 years out of the high grade ET potentiometers with heavy use.

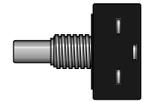
With this in mind, we've designed our controllers so that replacing potentiometers is as easy as possible, and we've provided you with a detailed guide to show you how to change them out. With the right tools, anyone should be able to replace the potentiometers when the time comes.

To get at the potentiometers you first need to remove the plastic cover(s). The steering cover is held on by 5 phillips head screws. Remove these, and also unscrew the shift knob to remove the cover.

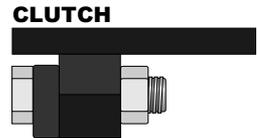
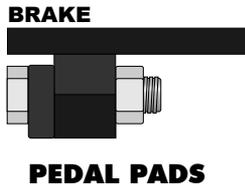
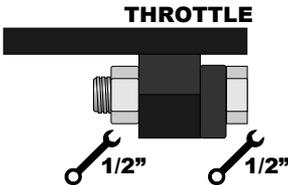
The Pedal cover is held on by 4 phillips screws, but you also need to remove the pedal pads before the cover can be removed. To do this, you need two 1/2" wrenches. Use one wrench to hold the nut and the other to loosen the bolt which secures each pedal pad.



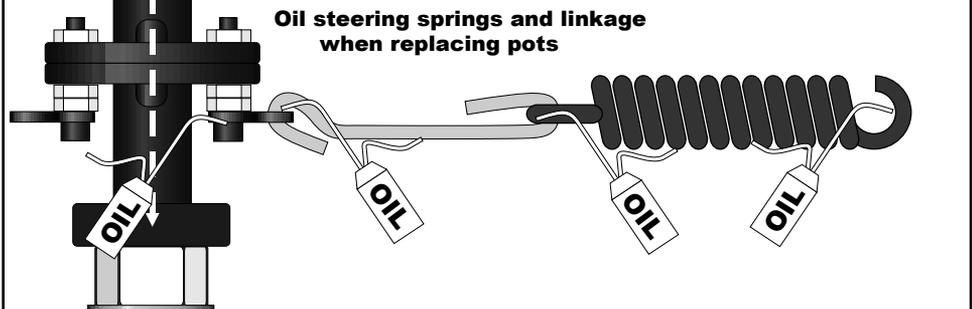
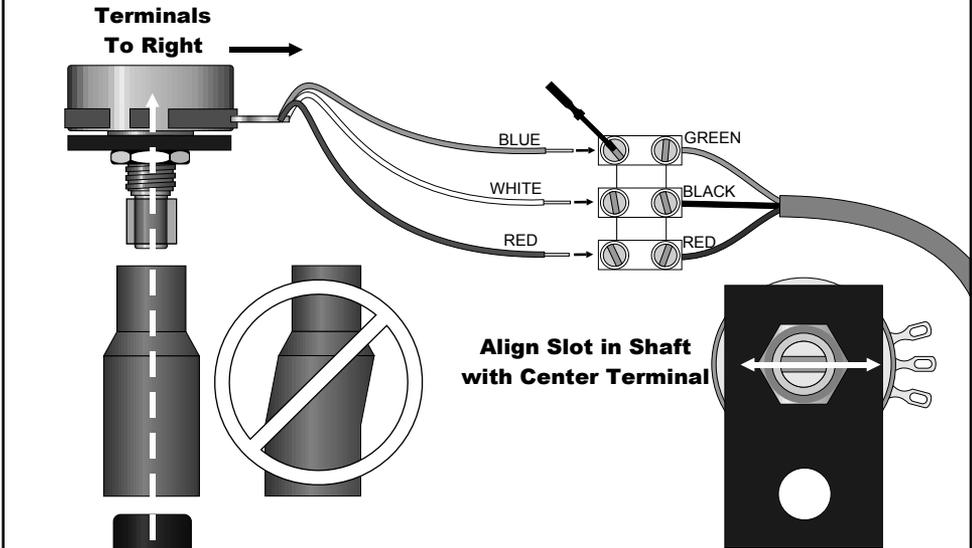
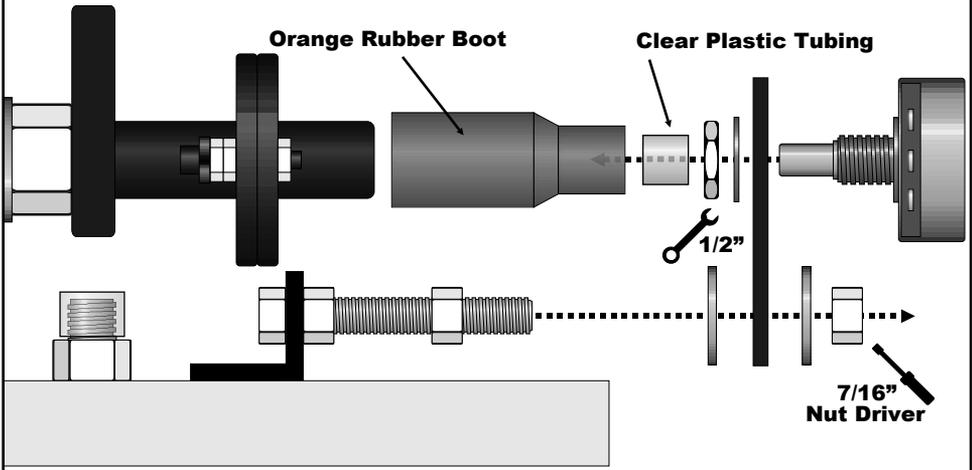
**Medium Grade  
DK Potentiometer**



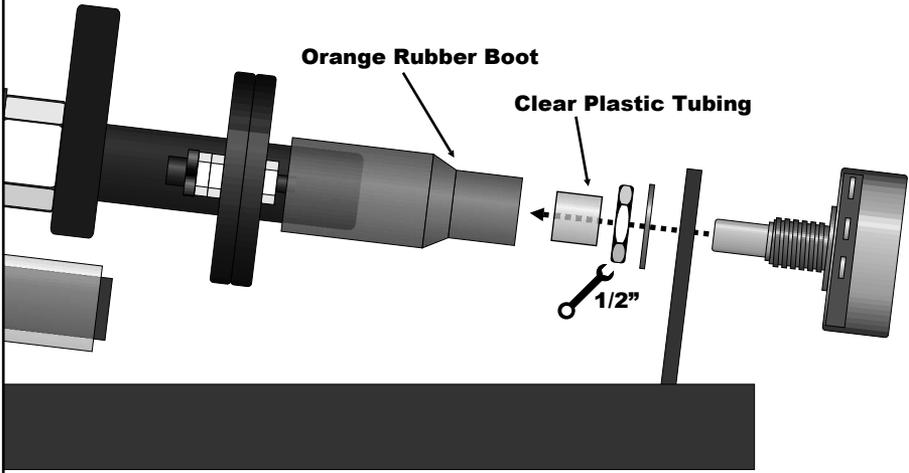
**High Grade  
ETI Potentiometer**



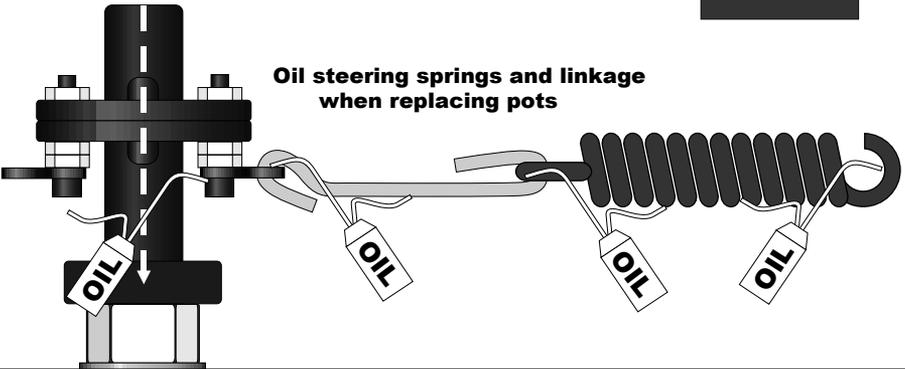
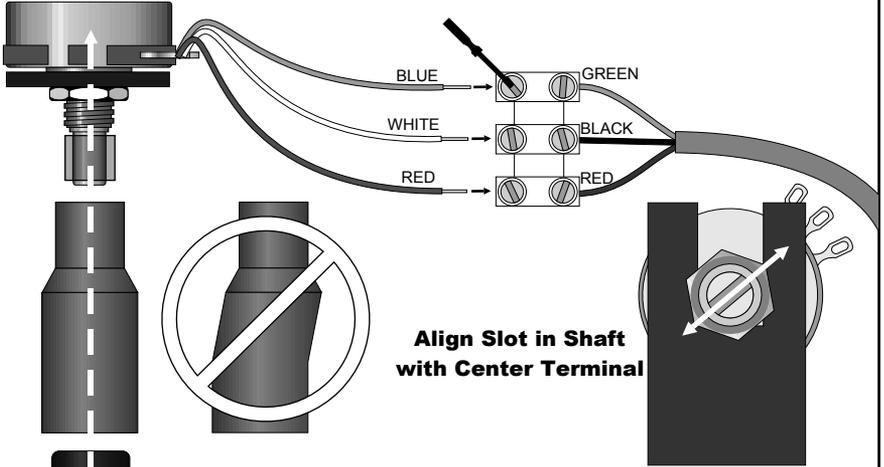
# Potentiometer Installation in TSW2 Steering Controller



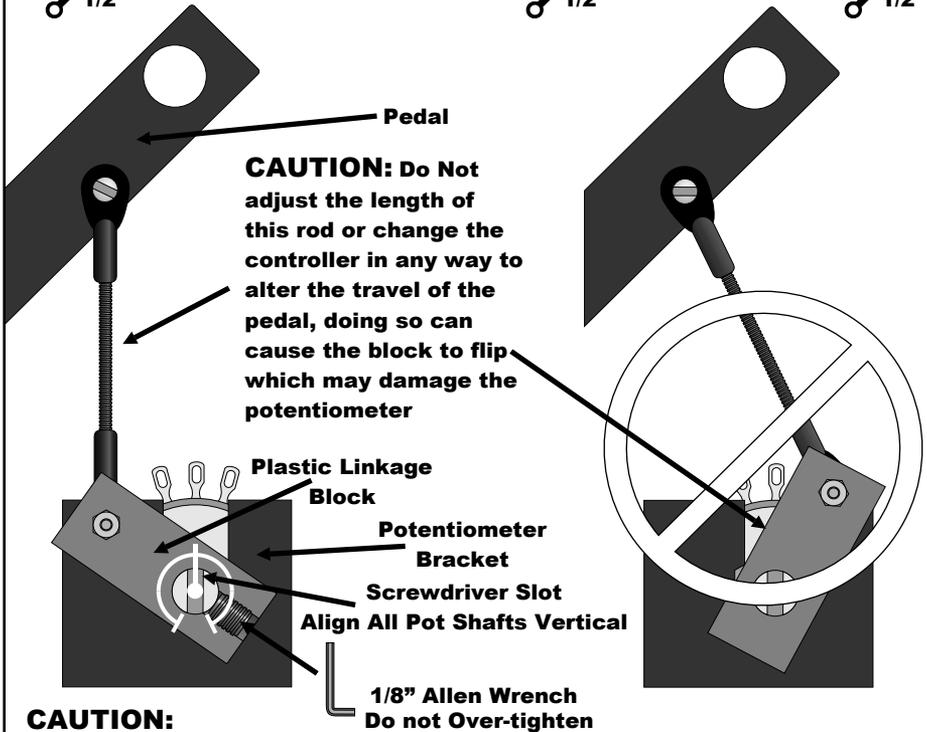
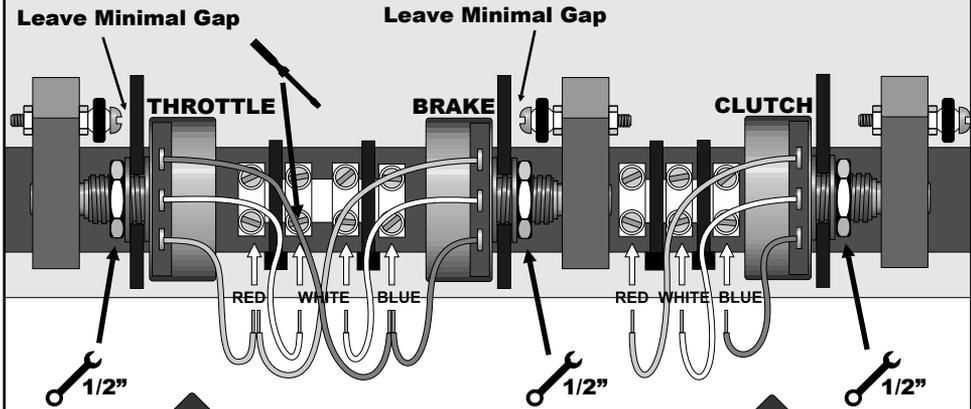
# Potentiometer Installation in TSW Steering Controller



Terminals To Upper Right

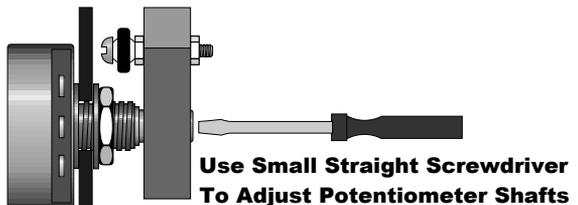


# Potentiometer Installation in Pedal Controller

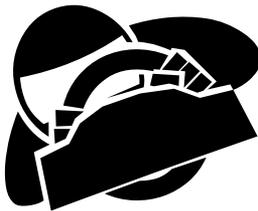


## CAUTION:

If aligned properly, the shaft should be in the center of it's rotation check to be certain that you don't have the shaft turned against the stop. If so, you are in danger of damaging the pot.







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