BOB'S SPACE RACERS, INC.

TECH TIPS

Gear It Up™ Arcade Game

Gear Rotation Adjustment

March2015

Problem:

1. Gear stops when the ball gets to the gear or gets stuck on the gear tooth.
2. Gear stops rotating randomly or "jitters" back and forth.

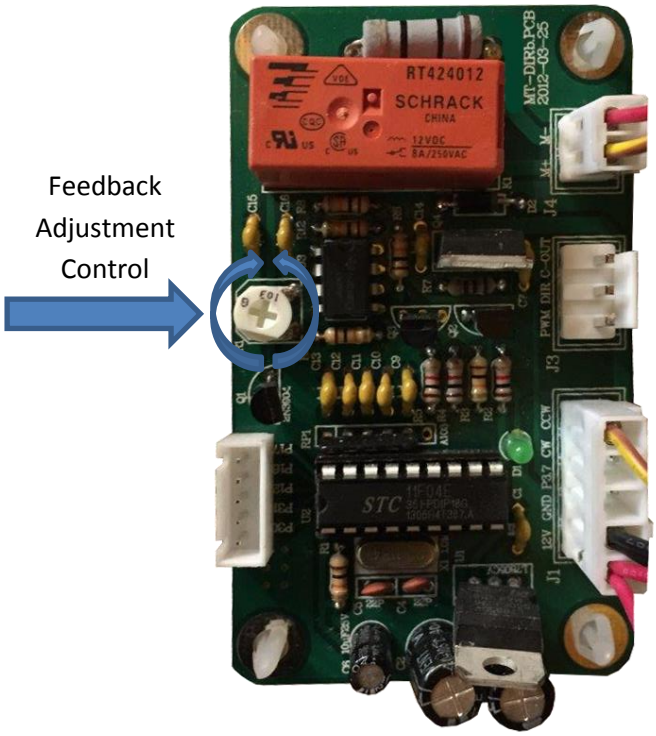
Solution:

Adjust the feedback resistance on an ***individual gear driver board*** (each gear will have one driver control board) for the GEAR IT UP™ arcade game:

1. If the gear stops the ball and does not release, then the feedback tolerance is set too high. Using a #2 star (Phillips) type screw driver, turn the adjustment knob counter-clockwise to decrease the feedback tolerance.

2. If the gear stops rotating randomly or "Jitters" back and forth, then the feedback tolerance is too low. Using a #2 star (Phillips) type screw driver, turn the adjustment knob clockwise to increase the feedback tolerance.

NOTE: The green LED on the DC motor controller will turn on when the motor goes in reverse. If the LED turns on and off rapidly or erratically, then the feedback tolerance is too low. If a ball gets jammed in the gear and the green LED does not turn on, then the feedback tolerance is too high.



Gear Driver Board