



# #TechTipTuesday

## Rear Axle Height

All of our newer chassis (2016-present) are designed so that the cassettes can be easily raised or lowered with quick release pins in relation to several lines etched into the cassette itself. Each line represents 0.100". There are six different settings for the chassis' ride height. Stock position is indicated by the arrows. This allows more adjustability than ever before. However, these pins are not to be used for fine tuning purposes, as they will significantly change the handling of your chassis and we recommend not changing them on a regular basis.

Both rear cassettes have been designed so that you may use the pins to increase or decrease your chassis ride height, rake, and/or crossweight. In order to fully utilize this feature, please understand that this adjustment is meant to only be used when you are setting a baseline setup for your chassis. These changes will drastically influence the amount of cross weight the chassis will have.

There are two main reasons you may want to change the axle height position. One is ground clearance. For rougher tracks, you will raise the kart (lower the cassettes within the hangers) to get enough ground clearance to miss the bumps. While on smooth tracks you can lower the kart, (raise the cassettes within the hangers) to reduce the weight transfer.

That brings us to the second reason, weight transfer. As you increase the ground clearance of a chassis, you also increase the vertical CG, which creates more lateral weight transfer. Many racers use this as a tuning tool to increase or decrease side bite. To change ride height, move both cassettes equally.

The amount of crossweight that will change is dependent on several factors. These factors include the seat positioning, driver size, stagger, and your wheel hub settings. You can expect that with each incremental change, 3%-5% of crossweight will be changed. We recommend that if you do choose to make this adjustment, that you only move one increment at a time. To change cross, move only one cassette at a time.

Please keep in mind, this is not a fine tuning adjustment and should only be used when significant changes are desired.