

***SLACK* PERFORMANCE KARTS**

SET UP GUIDE

Thank you for purchasing a Slack Pursuit Chassis. Performance Mfg. strives to provide you with the very best chassis and components on the market today. Your satisfaction and success is very important to us. Please contact us with any questions at (716)735-3500.

This setup information is only a reference and starting point for your new racing chassis. You must remember that all tracks and driving styles will take a variation in setups.

We thank you again and good luck on a successful racing season!

Out of the box

Whether the kart was picked up at a Dealer, Slack Headquarters, or by Truck, finishing assembly will need to be completed. Instructions below will completely lead you through assembling of the kart and putting items in appropriate settings.

Nerf Bars

The nerf bars should fit loosely in chassis and have vertical movement when body is mounted. They are drilled when leaving the factory. Secure the nerf bar with the pins and hardware provided.

Steering Assembly

If your kart was shipped in a box, the steering post was disconnected from the chassis to allow the steering shaft to be laid flat. When putting this back together, it is critical to make sure everything is fitted properly. Tighten up the lower upright bolt first and align the upper toe lock bracket, then tighten the $\frac{3}{4}$ nut. When attaching the tie rods to the pitman arm use the bottom hole for dirt. First put in a spacer then the left tire rod, then another spacer, then the right tie rod followed by the last spacer. See picture below.



Now is the time to go over all of the front end adjustments to make sure they are correct and all the hardware is tight. First, align the caster block with the welded caster plates to the

desired caster setting. Make sure the RF lead adjustment is placed in the front hole. Champ karts will be in the back hole.

The front hubs are attached to the spindles and kept in place by spacers. Some wheel manufactures have slightly different back spacing that requires different spacing. We recommend placing the wheels close to the spindle arms without hitting them. This is the recommended setting for all applications.

Rear Axle Assembly

The rear cassettes have two ride height settings:

1. Top Hole – This setting is recommended for coke syrup, pavement.
2. Bottom Hole – This setting is recommended for all dirt applications.
3. The pills will be set to “0” when leaving the factory.

Axle collars are included with the kart. This prevents the axle from sliding under load. We recommended placement of one collar on each side of the Right Rear bearing.

If a gear guard has been included for the sprocket hub. When looking from the rear of the kart, the flat pieces are attached to the hub on the right. The gear is placed on the left side with the guards with spacers attached and are placed over top of the studs.

Check the placement of the brake rotor in comparison to the caliper. It should be placed directly in the middle of the space between the brake pads. If the rotor needs to be removed, slightly loosening the nuts holding the rotor to the hub will allow it to be moved easier.

Rear Bumper

The rear bumper is held into the frame via rubber bushings. By tightening down on the bumper nuts, more pressure is placed between the frame and rubber bushings. The torque applied to these nuts can affect handling. We recommend the inner nut to be torqued to 200 inch pounds. Once it is tight, hold the large nut in place and tighten the jam nut onto it. It is a good idea to check this every few races as it can loosen up. The rear bumper is very important to how the kart reacts, and a bent rear bumper will bind up the kart.

Seat

Seat placement is extremely important in any go kart. This cannot be stressed enough. A seat that is bound up will cause the kart to be inconsistent and unresponsive. A seat that is not mounted in the correct position will cause undesired handling.

For junior classes, mount the front of the seat centered up with the steering post. The bottom of the seat should be slightly below the top of the frame rails. The seat height for junior classes is mostly determined by size and comfort.

For senior classes, the front of the seat should be centered, or slightly left of the steering upright post. (Viewed from behind kart) The bottom of the seat should be even with the bottom of the frame rails. Seat can be moved slightly left or right to help with percentages or so the bottom of the seat does not hit the frame rails.

Seat height is very critical to the performance of chassis. This is why we recommend the following settings.

- Dirt – 8.5" to 9.5" off axle
- Pavement – 8" to 8.5" off axle
- Indoors – 7.5" to 8.5" off axle

Rubber washers have been included to mount the seat in the kart. The seat should be tightened down to the struts so they are just snug and barley compresses the washer. Seat struts need to drilled and pinned to be legal.

If you do not feel comfortable mounting the seat, services are offered by many of our dealers and directly from Slack Performance.

On The Scales

Alignment

When the kart is new, any time a large front end adjustment has been made, or if you are just checking numbers, it is a good idea to align the kart. The new laser toe systems are convenient to use and easily provide the desired results. If you do not have one of these toe systems, either Performance Manufacturing or one of our dealers will be happy to assist you.

Our recommended settings for toe are 0" on the RF and 1/16" toe out on the LF.

Baseline set-ups for DIRT are as follows:

All classes:

1.5" Front Stagger

.75" to 1.5" Rear Stagger

RR 1/8" to 3/16" off frame rail

39" Rear Track

Stock Caster (12° RF and 10° LF)

Junior classes:

47 to 48 Nose

54 to 57.5 Left

57 to 63 Cross

-2° RF to -3° RF Camber

+0.5 to +1° LF Camber

Senior classes:

46 to 47 Nose

57 to 59 Left

60 to 66 Cross

-2.25° RF to -3° RF Camber

+0.25° LF to +1° LF Camber

Baseline setups for pavement are as follows:

All Classes:

1.375" to 1.75" Front Stagger

.75" to 1.5" Rear Stagger

RR 1/8" to 3/16" off frame rail

39" to 39.25" Rear Track

4° RF Caster

6° LF Caster

0.120 Wall Axle

Junior:

49 to 50 Nose

56 to 57 Left

54 to 56 Cross

-2.5° RF to -4° RF Camber

0° to +1° LF Camber

Senior:

48 to 49 Nose

58 to 61 Left

56 to 64 Cross

-3° RF to -4.5° RF Camber

0° to +1° LF Camber

Adjustments

Lighter and heavier drivers all require slightly different setups. Track size, amount of grip and tires can determine the setup needed to win. The above numbers are a baseline to start with. We also recommend that you contact your local dealer or slack performance for more detailed set up.

Here are some things to think about when setting up your kart:

- Grip is the name of the game. Heavier drivers create more weight transfer than lighter drivers. Some tracks may have more grip. Not enough grip will usually make the kart push or be “skatey”.

- Ways to increase grip:

- Softer tires

- Lower air

- Less RF camber

- More nose weight

- Less cross

- Less left side

- More LF camber

- A kart with too much grip will usually be slow and over stick the right side tires hard into the track

- Ways to decrease grip are opposite of above

In general, a heavier driver or a track with more grip will need to have less grip built into the kart’s setup.

Quick tuning guide

Pushing on entrance:

More rear stagger

More nose weight

More left front camber

Less cross (over loaded right front)

Add cross (under loaded right front)

Loose on entrance:

Less rear stagger

Less nose weight

Less left front camber

More cross (under loaded right front)

Less cross (over loaded left rear)

Pushing on exit:

More rear stagger

More cross (over loaded right rear)

Less cross (over loaded left rear)

Less right front camber

Less left front camber

Harder left rear tire

Loose on exit:

Less rear stagger

More cross (overloaded right rear)

Less cross (over loaded left rear)

More left side weight

Softer left rear

More right front camber

NOTES: