



PHOENIX

RACE KARTS

KART UNDERSTEERS ON CORNER ENTRY

Minor

Add 5mm spacers to front track.
 Add 5mm – 10mm overall to rear track.
 Raise front tyre pressures by 0.5-1.0 PSI.
 Reduce rear tyre pressures by 0.5-1.0 PSI.
 Raise the front ride height (lower stubs in the chassis).
 Increase toe-out by 1mm.
 Decrease camber by 1mm.
 Tighten side pod bar bolts.
 Remove seat braces (if applicable).
 Tighten front crash bar.

Major

Change to bolt-on front wheels / longer front wheel hubs.
 Increase caster.
 Increase Ackerman of stub trailing arms.
 Install front torsion bar (if applicable).
 Remove seat stays (if applicable).
 Move seat forward 10-12mm.
 Install a softer grade axle.
 Install softer seat.

KART UNDERSTEERS ON CORNER EXIT

Minor

Add 5mm spacers to front track.
 Add 5mm – 10mm overall to rear track.
 Use shorter rear hubs.
 Raise the front ride height (lower stubs in the chassis).
 Loosen side pod bar bolts.
 Remove seat braces (if applicable).
 Raise front tyre pressures by 0.5-1.0 PSI.
 Reduce rear tyre pressures by 0.5-1.0 PSI.
 Loosen front crash bar.

Major

Remove rear torsion bar / turn to softer position (if applicable).
 Move seat forward 10-12mm.
 Install softer seat.
 Reduce caster (if the IR wheel lifts then "crashes" back down).
 Increase caster (if the IR wheel is not lifting at all).

KART OVERSTEERS ON CORNER ENTRY

Minor

Reduce rear track by 5mm – 10mm.
 Reduce front track by 5mm a side.
 Install seat braces (if applicable).
 Reduce toe-out by 1mm (but don't go into toe-in).
 Raise rear tyre pressures by 0.5-1.0 PSI.
 Reduce front tyre pressures by 0.5-1.0 PSI.
 Loosen side pod bar bolts.

Major

Reduce caster.
 Install seat stays.
 Install harder grade axle.
 Use shorter front hubs (or change to standard front wheels)
 Install rear torsion bar (or twist to vertical position).

KART OVERSTEERS ON CORNER EXIT

Minor

Reduce rear track by 5mm – 10mm.
 Reduce front track by 5mm a side.
 Install seat braces (if applicable).
 Install longer rear hubs.
 Raise rear tyre pressures by 0.5-1.0 PSI.
 Reduce front tyre pressures by 0.5-1.0 PSI.
 Tighten side pod bar bolts.
 Lower front ride height (raise the stub axles in the chassis)

Major

Reduce caster.
 Install longer rear hubs.
 Install seat stays.
 Install harder grade axle.
 Use shorter front hubs (or change to standard front wheels)
 Install rear torsion bar (or twist to vertical position).

KART "BUCKS" OR "TWO WHEELS"

Minor

Increase rear track by 5mm – 10mm.
 Lower rear ride height (raise the axle in the chassis).
 Reduce rear tyre pressures by 0.5-1.0 PSI

Major

Reposition seat lower to the ground / laid back further.