Pole Cat Racing Engines – Technical Help Setup

Loose Conditions:

LOOSE ON ENTRY:

1) Reduce rear stagger (do so in .125" - .250" increments)
2) Reduce Front Weight % (1/2%-1% increments)
3) Increase Cross Weight %
4) Increase RF stagger and readjust your camber back to previous settings
5) Decrease LF positive camber
6) Change RR to a slightly softer compound or put your RR on a narrower wheel

LOOSE IN CENTER OF TURN OR TOO MUCH ROTATION

1) Decrease air pressure in the LF (1/4 - 1/2 lb. at a time)
2) Move LF in (1/8" - 1/4" at a time)
3) Increase air pressure in the LR and RR (1/2 lb at a time)
4) Move RR in as close as possible (always use lock collar if possible)

LOOSE COMING OFF OF TURN

1) Move the LR IN(1/4"-1/2" increments)
2) Increase cross weight percentage (1/2%-1% increments)
3) Softer compound on LR
4) Reduce the negative camber on the RF

VERY LOOSE CAUSING 4 WHEEL DRIFT

1) Reduce Left side % to get more side bite
2) Increase VCG (Vertical Center of Gravity)
3) Reduce air pressures all the way around (same amount each tire)
4) Go to softer right side tires
5) Go to softer compound on at least RR
6) If softer compound unavailable use new uncut tires over cut tires
7) If you start out with this condition and are 10" wheels, go to 9.5"
8) Increase castor 3's on both RF and LF (do this in equal increments)

Tight Conditions:

PUSH ON ENTRY:

1) Increase rear stagger (do so in .125" - .250" increments)
2) Move RR out .250" at a time
3) Increase Positive Camber on the LF
4) Increase front % in .25% increments (do not go crazy, only minor adjustments)
5) Decrease RF stagger and readjust your camber back to previous settings
6) Change RR to a slightly harder compound or put your RR on a wider wheel

Note: Stagger change is a productive to the push but the resulting camber changes are not. Readjust your camber back to the previous setting before stagger change

TIGHT IN CENTER OF TURN OR NOT ENOUGH ROTATION

1) Increase air pressure in the LF (1/2 lb. at a time)
2) Move LF out (1/8" - 1/4" at a time)
3) Reduce air pressure in the RF (1/2 lb at a time)
4) Increase air pressure in the LR and RR (1/2 lb at a time)
5) Try the same compound tire on a narrower wheel.

PUSH ON EXIT OF THE TURN

1) Move the LR out (1/4"-1/2" increments)
2) Reduce cross weight percentage (1/2%-1% increments)
3) Harder compound on LR
4) Increase the negative camber on the RF