

2011
C.J. RAYBURN RACE CARS
Whiteland, IN 46184
317-535-8232

1. Start with **12** inches of fuel in all fuel cells
2. Add weight of driver to seat (absolutely not the driver)
3. Center rear end at ride height (measure from brake rotor to frame rail)
4. Set pinion angle at **5°** using pull bar with outside blue spring (always check side to side ride height while adjusting)
5. Rear percentage **56%**; Left side **54%** (+ or - ½%)
6. Wedge should be within **2%** of left side percentage
7. Use tires, wheels and air pressure you will be racing with, approximately **3½** inches of stagger
8. Tire pressure: LF **8**, RF **12**, LR **6**, RR **9**

SPRINGS

Combination # 1 (Old Swing arm)	Combination # 2 (Watts & 4-Bar)	Combination # 3 (Watts Linkage) Birdcage
500 550	650 400	500 550
400 400	200 225	225 225

SHOCKS

Front	Koni #30-1660	2011 Cars (114 Revolution)
Rear	Koni #30-1663	Front Bilstein # S7 4.5-1.5
		Rear Bilstein # S9 3.0-2.5

FRONT SUSPENSION

CASTER	1 1/2 degrees pos	6 degrees pos
CAMBER	1 1/2 degrees pos	6 degrees neg
	Toe Out 3/4+	

RIDE HEIGHT

2 3/16	2 3/8	2011 4Bar	2 1/8	2 1/2
	4 1/4 under rail	Revolution		4
	5 3/4 over rail			

Standard bar lengths (swing arm, 4-bar, and watts): Top 17, Bottom 15 1/2, both center to center
 Optional bar lengths (swing arm, 4-bar, and watts): Top 16 ¾, Bottom 15, both center to center
More information on Page 2

C.J. RAYBURN RACE CARS

SYMPTOM: Car pushing going in

SOLUTION:

1. Add left rear (will tighten car coming out)
2. Soften left front spring (will loosen car coming out)
3. Stiffen right front spring (will tighten car coming out)

SYMPTOM: Car loose going in

SOLUTION:

1. Remove left rear (will loosen car coming out)
2. Stiffen left front spring (will tighten car coming out)
3. Soften right front spring (will loosen car coming out)

SYMPTON: Car loose coming out

SOLUTION:

1. Add left rear (will loosen car going in)
2. Stiffen right front spring (will loosen car going in)
3. Stiffen left front spring (will tighten car going in)
4. Soften left rear (will tighten car going in)
5. Soften right rear (will loosen car going in)
6. Raise right rear bar
7. Lower left rear bar
8. Add wheel spacer

SYMPTOM: Car pushing coming out

SOLUTION:

1. Remove left rear (will tighten car going in)
2. Soften right front spring (will tighten car going in)
3. Soften left front spring (will loosen car going in)
4. Stiffen left rear (will loosen car going in)
5. Stiffen right rear (will tighten car going in)
6. Lower right rear bar
7. Raise left rear bar

OTHER RECOMMENDATIONS:

- For extremely pushing race tracks, move right rear wheel to rear; move left rear wheel to front
- For extremely loose race tracks, move right rear wheel to front; move left rear wheel to rear
- For slick tracks, watts link & 4-bar, drop right rear down 1-2 holes

Tech Line Hours

Monday-Friday 7:00-9:00 AM

877-828-8232~317-439-9999 CJ Cell

317-535-8492 Fax

cjrayburn@cjrayburn.com

STANDARD BAR POSITION



Left Side Swing Arm/Watts Linkage



Right Side Swing Arm/Watts Linkage



Left Side 4-Bar



Right Side 4-Bar