

C.J. RAYBURN RACE CARS

BASIC SET-UP 11/07

Recommended as the best way to set Swing Arm or U-car for any track

- Start with 12 inches of fuel
- Add weight of driver to seat (not the driver)
- For '07 car , check pinion angle with car on ride height with driver's weight in seat; set pinion angle at 5 degrees
- Unhook pull bar for 2006 and earlier models (with ladder bars)
 - For '07 or up, leave pull bar hooked up and unhook pinion locator (rear brake bar)
- Approximately 4 inches of stagger
- Rear percentage 57; Left side 54 (+ or - 1/2%)
- Wedge should be 2% less than left side percentage to 2% more
- Use tires, wheels and air pressure you will be racing with
- When finished scaling with driver's weight in seat, hook up pull bar – DO NOT PRELOAD;
For '07 car, after set up, pull slack out of pinion locator (rear brake bar), hook back up with no slack – PRELOAD 4turns

TIRE PRESSURE

8#	12#
6#	9#

SPRINGS

Combination # 1

500	550
400	400

Combination # 2

500	600
600	600

SHOCKS

Front (*Koni #30-1660)
Rear (*Koni #30-1663)
*Specific to Rayburn chassis

FRONT SUSPENSION

CASTER	1 1/2 degrees pos	5 degrees pos
CAMBER	1 1/2 degrees pos	5-6 degrees neg
	Toe Out 3/8+	

RIDE HEIGHT

2 3/16	2 3/8
	4 1/4 underrail or 5 3/4 overrail (Check at Right Rear Only)

REAR BAR POSITIONS

Left	Right
Middle	Middle

Standard rear bar length swing arm: Front Left 14 3/8; Front Right 20 1/2 Rear 17 center-to-center

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Possible symptoms with suggested solutions

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

Recommend adjusting springs at 50 lb. increments

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

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