

SamSonPerformance

Drag Racing Launch Tuning (March 2023.1)

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1. What vendor and part number shock and springs are you running **front and rear**?
 - a. What is your rear shock installed height from bolt to bolt (eyelet to eyelet) with the weight of the car on the shocks? What are the fully extended and fully collapsed shock lengths?
 - b. If running coilover springs much is your coilover springs compressed and what is the spring's free length and lbs / inch?
 - c. What are your current Compression and Rebound settings on your shocks? *Please indicate if your numbers are from full tight or from zero.*
 - d. If Single Adjustable, How many clicks from zero are you?
2. Are you running 4 Link or Ladder bars or leaf springs?
 - a. For ladder bars:
 - i. What are the distances to the ground for the top bar bolt centerline and the bottom bar bolt centerline on the rear end?
 - ii. How many chassis mounting hole options do you have?
 - iii. What is the vertical centerline distance between each chassis mount hole?
 - iv. Which hole is being used currently? What is the distance to the ground for that hole?
 - v. What is the distance from the rear end bottom hole centerline to the bottom hole centerline on the chassis mount?
 - b. For 4 link bars:
 - i. Chassis Brackets Upper and Lower bars
 1. How many holes for top and lower bars?
 2. What is the vertical centerline distance between each hole up and down?
 3. For the top bar, what is the amount of horizontal spread between each hole? Usually as you go from the top to bottom on the upper bracket, the holes get closer to the rear end. How far is each hole offset from the hole above it?
 - ii. Rear End brackets
 1. How many holes for top and lower bars?
 2. What is the vertical centerline distance between each hole?
 3. If any holes are offset horizontally, like the top holes, what is the offset?
 4. What is the distance forward or rear of the axle centerline for the mounting holes?
 - iii. What is the distance (length) of the lower and upper 4 link bars from the rear end bolt centerline to the chassis bolt centerline in the current location?
 - iv. Which holes are you currently using for the upper and lower 4 link bars on the chassis and rear end?
 - v. What is the distance to the ground for each current bolt hole centerline on the rear end and chassis for the upper and lower bars?

- c. For Leaf springs
 - i. Describe the leaf springs installed? Split monos, stock springs, etc...
 - ii. Are you running a Cal Trac or Assassin bar or home made type bar? If homemade please describe and send pictures.
 - iii. Rear sliders or just hangers or solid mounted in the rear?
 - iv. Have the front mounts been raised or lowered from stock application?
 - d. What is the wheelbase?
 - e. What is your estimated camshaft height from the ground or what is your crankshaft bolt centerline distance to the ground? If you are using crankshaft distance, what block is this so we can estimate camshaft height?
 - f. Does the car go straight?
 - g. What is the rear gear ratio?
 - h. What is the first gear transmission ratio?
3. Are you running slicks or radials?
 - a. What air pressure are you running?
 - b. What size tire are you running?
 - c. Are you running tubes?
 4. Do you have wheelie bars?
 - a. If so, do they touch the ground on the launch?
 - b. If so, what is the height of the wheelie bars from the track with the car ready to run?
 5. What are your corner weights with the driver in the car and race ready?
 - a. If no corner weights, what is the car total weight?
 - b. What weight has been added for ballast and how much weight and where is it located?
 6. Are you running an Anti Roll Bar in the rear?
 7. Are you foot braking or using a transbrake?
 - a. If transbrake or manual, what is your launch RPM?
 - b. If auto, what stall converter do you have?
 8. How much front end travel do you have?
 - a. Have you limited the frontend travel with chains/cables/other methods?
 9. How much power are you putting down?
 - a. SBC, BBC, LS, SBF, BBF, other?
 - b. MPH is helpful to help with these estimates
<http://www.wallaceracing.com/et-correction-eighth.php>
 10. What are your current 60 foot times?
 11. Are you mainly racing on prepped surfaces or unprepped surfaces?

12. Driveline angles

- a. What is the angle of the motor/transmission and is it pointed down or up as you go from front of the car to the rear of the car?
- b. What is the angle of the pinion and is it pointed down or up as you go from the rear of the car to the front of the car?

13. Please send me pics of the suspension, front and rear

14. Video from the side with rear tire in focus on the hit - Please get video of your car

Watch this [PLAYLIST](#) on my YouTube Channel - It covers so much info on all these points