944-SPEC - 944SPEC - low cost wheel to wheel racing

Generated: 1 September, 2025, 13:11

205/50-15 RA1?

Posted by mcmmotorsports - 11 Jun 2009 01:39

With the SCCA announcement that the 205/50-15 RA1 is the official tire for Spec Miata in 2010 AND Toyo going back into FULL production on that size ONLY, why don't we make the switch to that size and then we will have our 20+ heat cycles back. Just a thought.

Re:205/50-15 RA1?

Posted by SvoChuck - 15 Jun 2009 11:50

is the shorter tire going to make the short fifth a requirement? seems like it's a nice to have at most of our tracks but a shorter tire might change that.?

Re:205/50-15 RA1?

Posted by joepaluch - 15 Jun 2009 21:34

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SvoChuck wrote:

is the shorter tire going to make the short fifth a requirement? seems like it's a nice to have at most of our tracks but a shorter tire might change that.?

The shorter tire will impact gearing. Not sure how much, but we will use 5th gear more I would guess. The other thing is I would expect a 225/50 RA-1 to last longer than a 205/50 RA-1. This is due to the wider 225 tire. Also a change in tire size may require FURTHER set-up changes. We can't expect a 205 RA-1 to be the same as our beloved 225 RA-1. Somethings to consider.

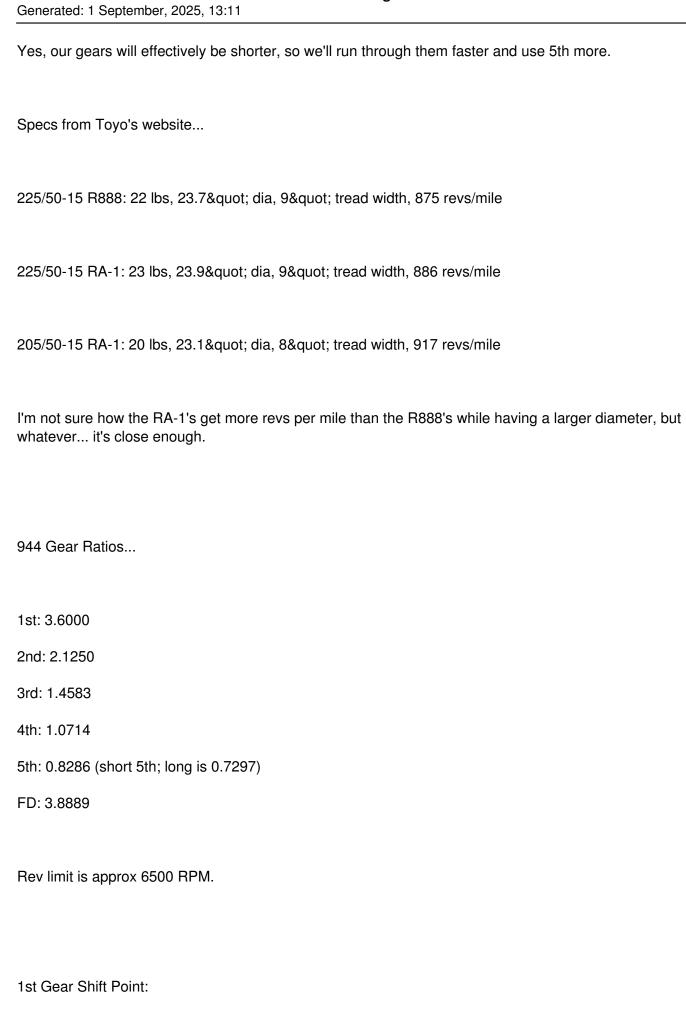
Re:205/50-15 RA1?

Posted by Weston - 16 Jun 2009 05:49

SvoChuck wrote:

is the shorter tire going to make the short fifth a requirement? seems like it's a nice to have at most of our tracks but a shorter tire might change that.?

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6500 Engine RPM / (3.6000 * 3.8889) = 464.284 Wheel RPM

464.284 * 60 = 27857.04 Wheel Revs Per Hour

27857.04 / 875 = 31.84 MPH on 225-wide R888's

27857.04 / 886 = 31.44 MPH on 225-wide RA-1's

27857.04 / 917 = 30.38 MPH on 205-wide RA-1's

2nd Gear Shift Point:

6500 Engine RPM / (2.1250 * 3.8889) = 786.552 Wheel RPM

786.552 * 60 = 47193.12 Wheel Revs Per Hour

47193.12 / 875 = 53.93 MPH on 225-wide R888's

47193.12 / 886 = 53.27 MPH on 225-wide RA-1's

47193.12 / 917 = 51.46 MPH on 205-wide RA-1's

3rd Gear Shift Point:

6500 Engine RPM / (1.4583 * 3.8889) = 1146.145 Wheel RPM

1146.145 * 60 = 68768.7 Wheel Revs Per Hour

68768.7 / 875 = 78.59 MPH on 225-wide R888's

68768.7 / 886 = 77.62 MPH on 225-wide RA-1's

68768.7 / 917 = 74.99 MPH on 205-wide RA-1's

4rd Gear Shift Point:

6500 Engine RPM / (1.0714 * 3.8889) = 1560.037 Wheel RPM

1560.037 * 60 = 93602.22 Wheel Revs Per Hour

93602.22 / 875 = 106.97 MPH on 225-wide R888's

93602.22 / 886 = 105.65 MPH on 225-wide RA-1's

93602.22 / 917 = 102.07 MPH on 205-wide RA-1's

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The indicated speed on our speedometers will be higher than these actual numbers, because our cars originally came with larger tires than what we are racing on.

Although the differences here are only a few MPH, it is a decent impact for our ~130 WHP cars.

Re:205/50-15 RA1?

Posted by 944cer - 16 Jun 2009 07:37

The more we have to use 5th, the more it hurts those of us that do not have the short 5th gear, even if mathmatically the long 5th is shorter.

Re:205/50-15 RA1?

Posted by Weston - 27 Jul 2009 09:44

We just got hit with another reason to abandon 225/50-15 tires... The price has gone up. Chris found that our local dealers are now wanting around \$162-167 per tire for RA-1 or R888 in 225/50-15.

I see even higher prices at online retailers like aimtire.com: www.aimtire.com/typ_category.asp?Unique =...33&ObjectID=6650

As of right now, aimtire.com wants \$178.75 for 225, but 205 is only \$139.00. That makes 205's \$159 cheaper per set! I know that 205's are a hard sell for us because of the 5th gear issue, but with a price difference like this, the cost of a short 5th tranny is really becoming less of an issue.

For comparison, you can get 225/50-15 Kumho V710's for only \$156.00 from TireRack.com, and those tires are a lot faster. Part of why I gave up a high-HP car on V710's to come race a 944 on RA-1's was because I was sick and tired of burning through tires so fast. But now I'm faced with the fact that V710's cost less than R888's, and we're going through 225-wide R888's almost as fast as I went through 205-wide V710's on a car with twice the HP. That just doesn't seem right for a class that wants to be low cost.
