

Suspension set-up cheat sheet

Posted by joepaluch - 06 Dec 2010 07:02

forums.rennlist.com/rennforums/racing-and-drifting/11788-suspension-set-up-cheat-sheet.html

The cheat sheet posted is great tool. Even better is full article.

BTW... that GRM has the red viper on the cover.

Re: Suspension set-up cheat sheet

Posted by Sterling Doc - 06 Dec 2010 20:36

Very cool. One of the precepts that makes sense, but was not obvious until pointed out, is to work on the front end of the car for corner entry issues, and the rear end of the car for corner exit issues. While you can affect the car's behavior working on either end, you'll get a greater effect for a given amount of change by working on the end that is more heavily loaded at that point. This makes a smaller adjustment mean more. In turn, this smaller adjustment will have less negative impact in another part of the corner.

I love this stuff. It's the meat of what it takes to make the car go fast.

Re: Suspension set-up cheat sheet

Posted by cbuzzetti - 07 Dec 2010 13:39

Great stuff there Joe, I have been using something similar for about 10 years but this is by far a better and more comprehensive tool than what I have been using.

If possible can someone post up a permanent copy of this on 944-Spec so we can all download and print it?

One of the biggest hurdles is to determine if the driver is the actual problem or the car.

An example would be understeer at corner entry. It is possible for the driver to enter too aggressively (too fast) and turn in too quickly or to much or both. This is where Data Aq. would be very helpful to a driver who is still learning to feel the car and know what is the limit.

This is where having a different or more skilled driver drive the car to see if the problem is there or if it is driver induced. We share cars in So-Cal to help each other understand different set ups and to diagnos issues. I know that other regions do the same thing and that is one of the things that makes 944Spec so great.

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Re: Suspension set-up cheat sheet

Posted by cbuzzetti - 07 Dec 2010 14:00

Here is what I have been using and have passed out to any who wanted it in So-Cal. The above cheat sheet is better by far and I will be using that one too.

Understeer Corrections

Front Suspension

Rear Suspension

Softer front springs

Stiffer rear springs

Thinner or no front sway bar Rear sway bar or a thicker one

Raise front tire pressure

Lower rear tire pressure

Softer front shocks

Stiffer rear shocks

More negative front camber

More positive rear camber

Remove weight from the front Add weight to the rear

More positive caster. Limited slip rear differential or stiffer rear diff

Oversteer Corrections

Front Suspension

Rear Suspension

Stiffer front springs

Softer rear springs

Front sway bar or a thicker one Thinner or no rear sway bar

Lower front tire pressure

Higher rear tire pressure

More positive front camber

More negative rear camber

Add weight to the front

Remove weight from the rear

Stiffer front shocks

Softer rear shocks

Re: Suspension set-up cheat sheet

Posted by cbuzzetti - 07 Dec 2010 14:14

Unfortunately the web site removed all the spaces between the words in my above post so it may be a little confusing to read.

The attached file is a set up sheet I use for record keeping that I fill out before each race. I do this on a flat spot in my garage and put the car in the same spot each time.

It is a jpeg file and is a picture I took so I can post it here. If you want an emailed copy just let me know.

Re: Suspension set-up cheat sheet

Posted by cbuzzetti - 07 Dec 2010 14:15

I am going to try to post the pic of the first cheat sheet.