

2019 Rules Thread

Posted by dpRacing Dan - 23 Oct 2018 13:32

Ok guys, its that time of year.

I'm hoping we can keep this one short and sweet.

Here's a few things on the docket;

1: Engine sleeving.

2. Rims (allowing aftermarket same-sized and weight as original but all new and non stock looking).

3. Short-shifters. Allow any?

THIS is the place to discuss any changes you may have in mind.

Please keep this discussion productive by refraining from insults or trash talkin. Lets keep in mind that whatever we change effects 150 cars in NASA nationwide- so whatever it is we suggest must be readily available, not excessively expensive, and a benefit to EVERYONE- not just you.

Ready? Set. Go.

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Re: 2019 Rules Thread

Posted by rd7839 - 08 Nov 2018 13:07

Hey Jason, I didn't mean my response to sound so snippy.

Here's my point; There is a small number of high compression pistons from the factory out there. If

someone is willing to spend the time and effort and money to find them for a fraction of gain, they will still be a small minority and just the cross we will have to bear. If aftermarket pistons that add horsepower(and cost) are readily available they will become the must have part and costs go up for all.

Plus, it will be so easy to cheat, or not even cheat but build to the letter of the law but get better performance with aftermarket stuff. It will be incredibly hard to police.

Any race engine builder knows that pistons are not as simple as they look. Minor differences like wrist pin location and size, distance between rings, material and so much more will make big differences with small changes. Those changes will be very minute and expensive to police.

I don't want to race in a series with professionally built and tuned cars against my homebuilt special with factory parts.

If you keep it factory you keep it more equal, aftermarket and the arms race is on. There are already classes for the 944 where you can do that. If you can't find parts for our series move a little up and you will have a home.

btw, just came back from Tennessee a few weeks ago and on my drive from Atlanta to Knoxville I saw 1 944 for sale for \$800 obo in the Chattanooga area that said running when parked and from I75 I saw another rotting away in a field so they are out there.

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Re: 2019 Rules Thread

Posted by cbuzzetti - 08 Nov 2018 13:18

I had lunch with Jon Milledge today.

His take on sleeving is this. You can use an aluminum sleeve or steel. The aluminum one will have to be coated with Alumasil.

The steel sleeve requires the block to be heated up to 280 degrees and the steel sleeve needs to be cooled to get a proper fit.

Jon prefers to use a sleeve that has a ridge extending outwards from upper edge (alu or steel) the proper machining must be done to the block to make this work. This eliminates the possibility of the sleeve moving up or down.

You can keep the sleeve from moving without the ridge if when machining the block you do not go past the end of the bore. Jon does not prefer this way because the cylinder wall is thin at the bottom of the bore. He builds turbo engines up to 725 HP so the ridge method may not be required for spec motors.

He felt that a set of pistons/rings and sleeves should be under \$1000. Machining will be extra. Pistons can be made in any configuration (compression ratio) you want.

I dont think we should jump into this just yet be we should be having this discussion and doing research to find the correct way to get this done for the future. Good blocks will only get harder to source.

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Re: 2019 Rules Thread

Posted by johntorg - 08 Nov 2018 14:53

These anti aftermarket pistons arguments ignore the fact that we are still using 30 year old pistons in our engines and many engine builders won't do it. We have a HP cap and dynos at the races to control performance. BTW, I have a couple of sets of 88 pistons and would still greatly prefer to go with aftermarket ones, when I build my next engine.

The idea of aftermarket pistons becoming a "must have" doesn't make any sense. No one is going to tear down a good running engine to swap pistons for minimal, if any gain. They will install aftermarket pistons when it comes to rebuild time.

At the 944Cup Nationals I borescoped 7 cars and only found only one with early pistons. Maybe 88 pistons are already must have.

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Re: 2019 Rules Thread

Posted by rd7839 - 08 Nov 2018 15:40

How about this, aftermarket pistons only in the low compression configuration and only as needed to replace damaged ones, maximum 2 per engine. The other 2 have to be factory.

If the pistons are the same then this should be viable but I hear the argument coming which will only prove that aftermarket pistons WILL make a difference.

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Re: 2019 Rules Thread

Posted by rd7839 - 08 Nov 2018 16:07

So a quick check of Picknpull showed a couple of cars available. I usually check once a month and there's most always a new car around here but right now it only shows 3 nationwide, 2 944's and 1 924S.

The best part is a motor with wiring harness is \$189 and aluminum wheels \$25.

So the argument that these parts are hard to find is not true. for \$400 I can have a rebuildable motor and a spare set of wheels. A few bucks more and I can have a fender or door or 2. Need a spare trans? we got ya covered for the price of a decent meal for 2.

Are the motors always good? Seem to be out here in the west, not sure why the east coast is harder on cars. My head came from them as did my crank. I gave away 2 of the blocks and I know of one still running for sure

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Re: 2019 Rules Thread

Posted by dancing944 - 08 Nov 2018 17:39

So the argument seems to be that a cap is insufficient because of the potential to affect the power curve. I think there could be a way to structure a rule that mandates some sort of curve. Spec E30 has a rule like this.

Everett

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