

## 2014 Rule Change Decisions

Posted by Sterling Doc - 12 Nov 2013 18:15

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We had a good debate this year with lots of suggestions. The series directors deliberated over these offline, and some good solutions and compromises were hashed out. The decisions, and a brief explanations follow below.

### **1. Balance shaft (belt) delete**

Denied

There is too much uncertainty about the adverse consequences, even among major engine builders.

The vote was about even, and offered no compelling reason for a rules change given the potential risks involved.

### **2. Oil Pan Gasket retainer**

Approved

This had fairly overwhelming support in the vote count, and seems low risk for unintended consequences.

### **3. Expand legal ballast mounting area**

Denied

No compelling reason for a rules change, and vote was negative.

Current location is one of the stronger/safer places to mount ballast in a 944.

Competitors are reminded that attempts to end run around the ballast rule are subject to penalties. Anything that is heavy, and unnecessary, or unreasonably heavy for it's intended function may be deemed ballast at the discretion of a NASA official, and subject to ballast restrictions on mounting and location. If anyone has questions on this, they are encouraged to contact their series director, or me on what they have in mind, or with any concerns.

***4. Allow 205/50/15 RR Toyo RR tires***

Denied

Vote went against. Potentially messy.

***5a. Remove rule 12.5 Heads and allowable shaving***

Denied

Popular vote was close.

After some discussion among the series directors, it was decided that dyno and whistler availability is not sufficient to eliminate this rule at this time.

***5b. Remove rule 13.5 computer management system***

Denied

Vote was unanimous against this proposal

***6. Remove 18 - Special Transition allowance***

Denied

Vote was to keep this rule, and series directors thought it was useful enough to keep.

**7. Allow offset Woodruff key**

Approved, but limited to 2 degree offset key, and low compression piston engines only

This proposal had the most debate by the series directors. While it is widely agreed that there should be some allowance to improve the situation of the low compression piston cars, there was significant concern over the expense of dyno testing to dial this in for a given car and head shave. There is also little hard data to guide racers. Online sources indicate that somewhere around 3 degrees is needed to correct a significantly shaved head, and less for lesser shaves. Commonly available offset keys come in 2 and 4 degree offsets. It was thought that offering a single, conservative option would greatly simplify the process, and lessen the expense involved in implementing this new rule, while still offering some benefit to the low compression cars. It should also be low risk. So the compromise is one take-it-or-leave-it option: OEM, or an offset Woodruff key with 2 degrees of advance.

**8. Outlaw '88 computer**

Denied

Vote was negative, and it was thought there was not a compelling reason to force change on a large installed base of cars.

**9a. Allow blocks to be honed 20 thousandths oversize, and bores redone by factory process**

**9b. Allow exact reproduction '88 piston, 20 thousands oversize**

Denied

The vote was surprisingly close, and the day for this rule change is coming, but not yet. As of now, the availability of motors has not reached the pain threshold for a major rules change.

## **10. Transmission Cooler**

Approved

The vote was close here as well.

We now have data showing high temps, especially with sustained running in hot ambient temps. While the effect of these temps on failure rates is not clear, expert opinion on the observed 270 degree oil temps is unfavorable with regard to transmission life. LSD transmissions, in particular, are getting more scarce and expensive. As this is an entirely optional modification, with no significant performance potential, it was passed.

We will not allow Turbo cases/oil pump gears, only external pumps and coolers.

## **11. Allow crankcase breather to vent to a catch can**

Approved

Vote was highly positive. Little downside, and removed any gray area for cars so equipped.

12a. **Limit ram air ducting to bumper turn signal hole** - or-

12b. **No ducting to air filter element outside of OEM configuration. May use open element air filter within the engine compartment**

Denied

Both went down by popular vote by a substantial margin.

13. **Allow use of Lexan for rear side windows.**

Approved

Vote was highly positive, and has several years of requests now.

The Lexan will have to be in the OEM window gaskets to maintain OEM look.

May be used to mount ducts for cooling purposes - driver or car.

#### **14. *Removal of spare tire well for all cars***

Denied

Surprisingly (to me) went down hard by popular vote. This does not change the existing allowance for late cars.

#### ***Dyno Rules***

Moving forward, we will clarify that cars may be topped off of fluids, and that dyno sessions are open to all. In practice, this has been the case, but it was thought wise to mak the rules clear.

We will allow competitors to request a 5 pull compliance run, with the lowest, and highest pulls being dropped, and the middle 3 averaged. A competitor must request this option before the start of compliance pulls, and than they are stuck with the results. If a standard 3 pull run would have worked out better, they cannot go back and ask for their results to be reconstructed *it ex post facto*). We will monitor this option moving forward, to see if this option results in any significant change in outcomes.

No change in temperature specifications. Series directors will need to be prepared need to use external means to determine oil temps on cars without gauges that read in numbers (or no oil temp gauge at all).

These rules will be inserted into the rules and sent to the NASA main office. While they are always subject to revision and approval by NASA, the expectation (and practice for many years) is that they are adopted as recommended.

I hope this helps all with their offseason plans for the 2014 season!

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## Re: 2014 Rule Change Decisions

Posted by Big Dog - 17 Dec 2013 09:55

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I have a new turbo radiator in my car and it could not handle the oil cooler in front of it.

Remember, we run in 100+ temps out here. The factory setup worked just fine on STREET CARS, not cars that are now race cars. In addition, Germany does not see our kinds of temps either. Many Porsche's had trouble, in the past, with our American West temps. Porsche had to change their design specs as they sold more and more cars here.

Eric, thanks for going back to NASA on this one. It simply would not work for us "Hot Air" guys otherwise.

And for everyone, it is important to be open minded about rule proposals. Different regions have different issues/weather, etc. Some rules may not matter to most but are important to some. If they are not performance issues, try to be open to them even if they are not significant for your own personal car.

Jim

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