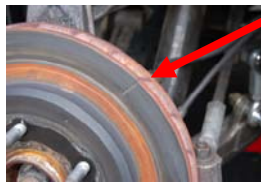




## Long Term Car Maintenance

We all take a good look at our cars before and after each event to inspect and maintain the most common, and many times, the easiest aspects of our track cars. Typical things to look at include but are not limited to:

- Brakes
  - Pads, Rotors, Fluid, Calipers
- Oil
- Tires
- Wheels
- Fluid Levels



*If you feel a "thumping" upon braking, it is most likely a cracked rotor. You need to come in and change it. Always change rotors in pairs!!!!*

But what about those things that are not at all obvious and much more difficult to maintain. Although the maintenance intervals can be much longer than the typical items, they are no less important. Items to keep track of over the season and change as needed:

- Wheel bearings
- Timing chain
- Valve Springs
- Transmission and Differential fluid
- Clutch
- Belts

There is also the issue however of, "if it ain't broke, don't fix it". Making major changes etc. to your engine can lead to other problems. Any involved maintenance and/or upgrade to your engine and drive train should be very well thought out in advance.

**RAFT**

### BLEEDING THE BRAKES

The term "bleeding the brakes" refers to the process in which a small valve is opened at the caliper (or wheel cylinder) to allow controlled amounts of brake fluid to escape the system. (When you think about it, "bleeding" may appear to be a somewhat graphic term, but it aptly describes the release a vital fluid.)

We bleed the brakes to release air that sometimes becomes trapped within the lines. Technically, "air" only enters the lines if there is a compromise of the system's sealing (as when flex lines are removed or replaced), because when fluid boils, it will instead create "fluid vapor." Vapor in the brake fluid, like air, will create an efficiency loss in the braking system. However, for the sake of simplicity we use the term "air" throughout this article to describe both air and fluid vapor.



Bleeder Valve

When air (or vapor) becomes present within the lines, it creates inefficiencies within the system because, unlike liquid, air can be compressed. So when enough air fills the lines, input at the pedal merely causes the air to compress instead of creating pressure at the brake corners. In other words, when air is present within the system, the efficiency and effectiveness of the braking system is reduced. Usually, a small amount of air within the brake system will contribute to a "mushy" or "soft" pedal (since less energy is required to compress the air than is required to move fluid throughout the brake lines.) If enough air enters the brake system, it can result in complete brake failure.

So how does air enter the lines in the first place? Sometimes, it can be the result of a service procedure or an upgrade such as replacing the stock flex lines with stainless steel braided lines. But often it is the result of high temperatures that cause brake fluid components to boil, thus releasing gasses from the boiling fluid into the brake hydraulic system.



# The —Black —Crack —Report



The addiction you don't want to fight

## GO PRO Cameras



Camera was set on "repeat" exposure mode for this photo

10 / 10ths Motorsports can now offer a great little camera / video recorder for your track day events. This is a very easy to use, affordable camera that offers a wide variety of mounting options. You do not need a roll bar etc. however there are mounts for this application. Video and photos are recorded directly to an SD card so you can immediately download them to your computer.

The camera comes with a waterproof case for use on the outside of your car, along with suction cup mounting options. You can purchase this camera by visiting our website at [www.1010thsmotorsports.com](http://www.1010thsmotorsports.com) We will also be making these cameras available for rent at all our events. Rental will include suction cup mounts as well. Works great for any sports application.

## SideLines Sports Photography coming to 10/10ths

Great News !! Mike with SideLines Sports Photography is coming to our September 19<sup>th</sup> event at Putnam Park. I have ordered my track photos CD from Mike in the past and have very pleased with the quality of shots and photography. This is a great addition to 10/10ths Motorsports and I am sure you will be interested in what Mike has to offer.



## Our Next Event

We are planning a great w/e at Putnam Park on August 29<sup>th</sup> & 30<sup>th</sup>. You can visit our website at [www.1010thsmotorsports.com](http://www.1010thsmotorsports.com) for details and registration. One and Two day registrations available. The Ken Brown Driving Experience is also coming to 10/10ths. Check the website for details.

## Interesting Photo of the Month



Have you practiced getting out of your car quickly? REMEMBER though, if something happens on track and you find yourself stuck off the track etc, the best place for you is IN the car, strapped in with helmet on. Only if there is a fire or other life threatening situation should you ever get out of your car until help arrives and it is safe to do so.





# The —Black —Crack —Report



The addiction you don't want to fight

10/10ths Motorsports now offers the TEAM DI series of Racing Gloves and Shoes as well as a few other racing safety products. You can check them out on our site by clicking on the Store menu item.



## You Can Help 10/10ths Motorsports !

I hope you enjoy the monthly 10/10ths Motorsports Newsletter. Please feel free to forward this to any of your friends and point them to the 10/10ths Motorsports website. I believe word of mouth advertising is the best route to introduce both new drivers and experienced drivers to the 10/10ths Motorsports events. For those that have come out to the events, Thank You Very Much and I look forward to seeing you again.

## Please Visit our Great Sponsors



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