

## What we do

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Raptor Performance designs and manufactures custom racing products, mostly electronics and embedded products to improve the performance of your vehicle, shaving valuable time from your time slips at the track.

We exercise great care, using automotive grade product development approaches that include Advanced Product Quality Planning.



Raptor Performance

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## Raptor-Sport Bike Ignition “Soft Kill”™

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**RAPTOR**  
PERFORMANCE

*Quality developed and delivered engineered  
products*



## Raptor Performance

Raptor Performance Engineers have been busy again developing new products to make your bike go even faster. One such product is the all new sport bike ignition "Soft Kill". This product is intended for clutch-less up shifting on air/ electric shifters. The two rotary switches on the top of the device allow precise kill time settings from 1 to 99 milliseconds (.001 to .099 seconds). This will give you lightning fast shift times. The term "Soft Kill" describes the unit's ability to kill and shift without interrupting the bike's ECU critical timing events, thus eliminating the destructive effects commonly seen by the competition's products.

## Benefits

1. **Reduced 1/8 and 1/4 mile time slips!**
2. Precise kill time setting ranging from 0 milli-Sec to 99 milli-Seconds - (you set it to 45mSec and it will deliver exactly 45mSec, with no guess work)
3. Rotary switches with detent, providing positive feedback by clicking in place
4. Repeatable setting and performance
5. Air valve delay built in so the gear lever is slightly preloaded BEFORE the kill event (saves 10-12 mSec per shift)
6. Miniature size makes it easy to install on the bike (1.97 inches x 1.97 inches x 0.79 inches - height) - and light weight
7. Potted for moisture and vibration resistance. This adds to the possible range of mounting locations (recommend under seat)
8. Easily replace your existing ignition kill box will little effort
9. Computer based control system developed using automotive design and manufacturing principles
10. No relay contacts to wear out like the competition. The Raptor Soft Kill is produced from precision digital components, that are built to last.
11. Precise control of the ignition spark kill Interfaces directly with the [Raptor Shift Light](#) for automatic shifting or for manual horn button shifting
12. Status LED indicator for power on, kill active conditions
13. No backfiring or odd ignition and combustion events
14. Engineered to work in a wide range of operating conditions
15. No significant current draw from the battery, only the operation of the kill box (less than 50mA), unlike the competition that drains the battery approximately 55 amps during every kill event
16. Comes with a universal wiring harness
17. The competition fire all ignition coils each time they shift, creating a multitude of timing problems (possible intake valves open, pre-detonation because the pistons are in the wrong location in their cycle, etc). **With the Raptor "Soft Kill"**, the firing of the coils as well as the dwell time remains in complete control of the ECU, not the kill box!
18. Oh, by the way, did we mention reduced 1/8 and 1/4 mile time slips!

## Engineering at work

Visit Raptor Performance for a growing line of high quality vehicle racing systems. We design, test and build the product as if our name were on it, because it is. With decades of product development experience much of that automotive, we intend to produce a product that surpasses the competition from the design through to manufacturing.

The Raptor Soft Kill Box has been through design reviews, simulation and extreme testing. We carefully reviewed the competition and found better ways to accomplish the goals of the product through careful consideration of the vehicle system.



*Raptor Sport Bike "Soft Kill"*