

# CORRAL.NET

Every once in a while a product comes along that is so simple, yet so effective that you wonder: Why hasn't this been done before? The CG-Lock is just such an item. This seat-belt enhancer is designed for easy installation to help keep you secure behind the wheel.

If you've ever done autocrossing, open track schools, or even just spirited driving through your favorite twisties, you've probably found that the stock seat belts and seat are woefully inadequate at keeping your body positioned behind the wheel. Slack belts and unsupportive seats will have the car flinging you around at even the slightest curves.



Up until now, your only options were to install an expensive race seat or add harnesses in an attempt to keep yourself planted behind the wheel. While effective, these expensive propositions also have their drawbacks. Seats can be pricy and have limited fabric patterns giving your car's interior a mix and match look. They also often require you to lose your power seat adjustments.

***"stock seat belts and seat are woefully inadequate at keeping your body positioned behind the wheel. Slack belts and unsupportive seats will have the car flinging you around at even the slightest curves."***

Harnesses have their own drawbacks. First are roll-over concerns. You should NEVER, EVER use any 4, 5, or 6-point harness in your vehicle without a roll bar.

***"You should NEVER, EVER use any 4, 5, or 6-point harness in your vehicle without a roll bar."***



**4-Point and 6-point Bolt-In Roll Cages**



In the event of a rollover a multi-point harness will hold your body upright as the roof collapses on your head. At a minimum you should use a good 4-point roll-cage to help prevent this from happening. The stock 3-point harness, however, does not suffer from this problem. During a rollover accident it will allow your body to move downwards with the roof in most cases, helping to prevent crippling neck and spinal injuries.

***"In the event of a rollover a multi-point harness will hold your body upright as the roof collapses on your head."***

Secondly multi-point harnesses must be installed correctly in order to be effective. The shoulder harnesses should be attached no lower than six-inches below the shoulder line, and should be at no more than a 45-degree angle from the top of the shoulder to the mounting point. Ideally the belt should be mounted evenly with the top of the shoulder line. Additionally you want some length of seat-belt material between you and the mounting point for adjustability and proper effectiveness. Too much material though can cause other problems.

There are two reasons for these stipulations. First, seatbelts by design are intended to stretch in an impact. This allows your body to slow down gradually in a collision. Too much material

between the mounting point can cause an excessive amount of slack after they stretch, allowing your body to escape from the belts. When belts are mounted to the rear seat area of the vehicle, the large amount of material between the mount point and the driver can suffer from this problem. This could allow the body to come into contact with interior parts of the car, like the steering wheel or dash board, or even dislodge completely from the belt.

***"The solution is the CG-Lock."***

Secondly by making sure the belts are even with or slightly below the shoulder line ensures proper effectiveness. If the belts are mounted too low they can cause spinal compression injuries in a frontal crash. As the body moves forward the belts pull downward on the shoulders, compressing the spine. This can cause compression fractures in the vertebrae, herniated disks, or even break the spine.

You may not want to shell out hundreds or even thousands of dollars for harnesses or seats. Perhaps you don't have the budget, the time, or desire to tear your car's interior up to install a bunch of extra equipment. So what is the solution for the simple problem of staying planted in the seat during spirited driving?

The solution is the CG-Lock. This simple device clamps to the seatbelt buckle and allows you to tighten the lapbelt portion of a stock 3-point harness and keep it tight. We have to admit we were skeptical that it was possible to stay planted behind the wheel with just the lapbelt. We were pleasantly surprised when the CG-Lock far exceeded our expectations! Not only does it keep you planted in the seat, but still enables you to move around the car, something most multi-point harnesses can't do.

***"the CG-Lock far exceeded our expectations!"***

We tested the CG-Lock on an autocross type course and found that it kept us firmly planted during even the most vigorous driving. Open track and high-performance driving school junkies will also find the CG-Lock to be remarkably effective. Even though only the lower body is secured the device helps you maintain proper driving position.

***"Open track and high-performance driving school junkies will also find the CG-Lock to be remarkably effective."***

The CG-Lock works by clamping onto the seat belt buckle. The seat belt is sandwiched between the top plate and a knurled cam. This allows the belt to be tightened but not loosened during driving. A thumb release allows you to release the cam allowing the belt to move freely for adjustment. The top-plate also slides backwards to disable the CG-Lock and forwards to make it functional again. This means that for long trips you can have the seatbelt function like stock. A quick press of the top-plate to the "On" position and you're ready to hit the curves!

For those concerned that the CG-Lock will affect seat-belt performance during a crash, rest easy. The CG-Lock in no way affects seat-belt function, safety, or performance during a crash. The stock seat belt buckle still handles all the loading from crash forces as the CG-Lock is located behind stock locating and mounting points.

***"We'll be putting this device in every one of our cars!"***

The CG-Lock comes with everything needed for installation including all tools, instructions and hardware. It installs in about 5-minutes using only two hex-head machine screws. No cutting or drilling is necessary and if need be the unit can be removed in the same amount of time.

If you're looking for an effective, low-cost alternative to expensive harnesses and seats look no further than the CG-Lock. We'll be putting this device in every one of our cars!



Reference: [www.corral.net](http://www.corral.net) (the late model mustang website). January 2007

**CORRAL.NET**