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## **HIPERFIRE PRODUCT REVIEW**

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The HIPERTOUCHE 24 Trigger System seemed to appear out of nowhere less than a year ago. As of late 2013 HIPERFIRE and their HIPERTOUCHE 24 trigger systems seem to be everywhere - and I know why.

HIPERFIRE has taken triggers to an entirely new level - a drastic improvement over a Mil-Spec trigger and more importantly - the HIPERTOUCHE 24 trigger systems are giving the top names in triggers a serious run for their money! Unlike their competition the HIPERTOUCHE 24 trigger system provides higher hammer fall energy for more consistent and reliable primer strikes - even with .22 rimfire conversion kits and the entire system is easily user configurable for different trigger pull weights!

Here is where the magic lies - the HIPERTOUCHE 24 trigger system is an amalgamation of "old school" and "new school" designs providing an extremely smooth, light weight, consistent trigger pull with minimal creep and an extremely quick trigger reset. Rapid split times and minimal gun movement are easily accomplished with the HIPERTOUCHE 24 system.

The "old school" part of the design will look and feel very similar to anyone familiar with the standard fire control mechanism of an AR platform rifle. The trigger, disconnecter and the hammer assembly look familiar but with some modifications. The trigger and hammer springs are standard wire springs. When these old school parts assemble into a lower receiver you get a really crisp trigger with an excellent pull. In fact - most people would be thrilled to have a trigger of this quality! - BUT - 1/3 of the parts aren't installed yet!

(Note - DO NOT use the HIPERTOUCHE 24 without ALL the parts installed)

Here is where HIPERFIRE has integrated the "new school" into the design. The HIPERTOUCHE 24 has added additional parts to its fire control system that dramatically improve an already excellent trigger pull. The additional components provide for an even smoother, lighter and more consistent trigger pull via the use of a matched pair of coil springs held in place by guide rods. The springs and rods connect to the hammer allowing a progressively increasing hammer fall force as the springs decompress. The use of the additional springs to increase hammer fall force has enabled HIPERFIRE to maximize the trigger geometry to create an unbelievably smooth, light trigger pull.

Typically, to achieve a light crisp pull manufacturers will do two things. Firstly, polish the contact surfaces of their components to reduce friction and to remove the gritty feeling often associated with poor trigger pull. Secondly, manufacturers typically install reduced power trigger and hammer springs to reduce the trigger pull weight. The rationale - the lighter the spring - the less force/friction required to pull it - so, lighter spring, lighter pull. What is frequently overlooked - lower power springs make for lighter primer hits as there is less energy in the hammer spring to move the hammer forward. The other thing that weak springs can create is a creepy, mushy feel when pulling the trigger (same lousy pull - only lighter).

The HIPERTOUCHE 24 bypasses this problem by using highly polished surfaces with standard weight trigger and hammer springs in conjunction with the coil spring system. The standard trigger and hammer springs create a nice, consistent trigger pull for reliability, without causing undue friction or pressure on the sear/hammer engagement. The coil springs allow less pressure to be applied to the sear/hammer notch, as the coil spring power increases as the spring decompresses. (It is very easy to hold the hammer back with your finger when fully rearward - when the coil springs begin to decompress the hammer gains power extremely rapidly). So, in essence, the coil springs keep pressure off the sear/hammer engagement notch for a light trigger pull, while providing a massive amount of energy to power the hammer forward for strong primer ignition.

HIPERFIRE has created the HIPERTOUCHE 24 system to be user configurable for trigger pull weight easily adjusting their trigger from 2 - 4 lbs simply by replacing the provided coil springs. HIPERFIRE has color coded the springs for ease of use and to insure that pairs are matched correctly before installation. The swap out takes only a minute or two and requires no special tools.

Installation of the HIPERTOUCHE 24 is very similar to installing a Mil-Spec AR trigger group. Users will drop the preassembled trigger assembly into the lower receiver (with the safety set to fire - no need to remove the safety) orient the trigger spring so the legs are facing towards the magazine well and install the trigger pivot pin. To install the Hammer Assembly users must first install the Toggle Spindle into the hammer and then place the assembly into the lower receiver, insuring that the hammer spring legs are indexed correctly over the trigger pivot pin (just like a regular AR trigger install). Once the hammer assembly is aligned correctly insert the hammer pivot pin.

The last step to finish the installation is the installation of the coil spring assembly. This is straight forward and easy to accomplish. Properly align the provided Toggle Shafts so that they engage the Hammer Toggle Spindle (hammer in the forward position). Place a matched set of springs over the Toggle Shafts and place the Toggle Pivot bar across the top, aligning the toggle shafts into the holes of the Toggle Pivot bar. Using a blunt tool,

or your thumb, compress the springs by pressing onto the pivot bar's blind hole while using your thumb to press the entire mechanism downward into the receiver. The entire coil spring assembly should snap into place with the Trigger Frame Assembly. The entire operation only takes a few minutes and does not require any special tools. User should remember to wear safety glasses as the coil springs require a fair amount of force to compress and have a tendency to fly when least expected.

You are done! I would recommend a basic functioning test at this point - the trigger pull should be **butter smooth** with a low pull weight, effortless pre-travel, clean hammer release and a lightning fast trigger reset - anything else and something is wrong! Be sure to engage/disengage the safety to test for proper function. The excellent instructions provided by HIPERFIRE detail the full installation procedure with excellent diagrams. Additional resources are also provided on their website ([www.hiperfire.com](http://www.hiperfire.com)).

In all honesty - many users do not concern themselves with how a system works - they want to know that it works and does the job intended. I can assure you that the HIPERFIRE 24 trigger system does everything it claims to.

At first, I was a little confused using the HIPERTOUCHE 24. I had installed it into my lower, added my upper and began dry firing to get a feel for what I was working with. The reason I was confused - I have never come across a trigger that feels like this one. I have custom 1911's, match grade .22's, custom pistols, rifles and some fantastic custom built Italian shotguns. I know what a good trigger feels like and understand the time and engineering that goes into the design to make it that way. Well, to be honest, the HIPERTOUCHE 24 trigger is nothing like ANY of my high end guns triggers, nor is it like any of my lower end factory triggers! It is unique and it is awesome!

The HIPERTOUCHE 24 trigger system is BUTTERY smooth. There is absolutely no grit anywhere! The take-up on the trigger is a tiny bit longer than with other drop-in trigger systems have I used - but - the take-up is effortless! A smooth, straight pull back and bang! There is no stacking whatsoever right before the trigger breaks. The actual trigger break is intangible - the trigger just glides and bang. The trigger reset is very short and quick, allowing for very rapid follow up shots with more buttery smooth trigger pulls.

When doing my comparisons between trigger systems, ranging from Mil-spec generic, up to, top of the line drop in parts, I had to start rethinking what makes a good trigger. Everyone loves a trigger with short take-up, a crisp "ice cycle" break release and little, to no, over travel. The trick is, to accomplish this, something has to give. As an example, a 3 lb drop-in trigger I use has this down to a science - but - there is a definite point in the trigger pull where everything stops - then the trigger breaks. I would call this stacking - very minor - but stacking. Another well known company makes a 3.5 lb

trigger that has very little take up and a minimum of stacking - but - the trigger reset is gritty. It is these types of minute differences that are making me rethink triggers. The HIPERFIRE trigger has managed to tame **ALL** these issues in a user tunable system, that has a higher energy hammer strike than it's competitors!

I have had the opportunity to run three different versions of the HIPERTOUCHE 24 trigger system: the HIPERTOUCHE 24 (Standard), the HIPERTOUCHE 24E (Elite), and the HIPERTOUCHE 24C (Competition).

I can tell you that ALL of the HIPERTOUCHE 24 triggers are excellent! There are some tangible differences between the models that should be noted however.

The HIPERTOUCHE 24 (Standard) is the base model. It is the basis for the buttery smooth trigger pull - and it is - buttery smooth. The HIPERTOUCHE 24 (Standard) trigger is user tunable for 3 different trigger pull weights, like its fancier relatives. The only main difference I could detect is the amount of take-up before the hammer releases and a slightly longer trigger reset. For most users looking to upgrade from a Mil-spec trigger system you will be absolutely thrilled with the HIPERTOUCHE 24 (Standard). For users looking to move to the next level in their shooting the HIPERTOUCHE 24E might be the way to go.

The HIPERTOUCHE 24E (Elite) is the next progression in the HIPERTOUCHE 24 lineup. Sharing the same base features of the HIPERTOUCHE 24 (Standard) with further refinements and tuning of the trigger. The HIPERTOUCHE 24E has 1/2 the take-up of the 24 Standard and the over travel is noticeably reduced. The trigger reset is also reduced. As could be expected - the trigger's buttery feel is just delightful. Rapid shots are easily attainable and rather effortless with the HIPERTOUCHE 24E.

The last stop is the HIPERTOUCHE 24C (Competition). The HIPERTOUCHE 24C is designed for the serious competition shooter. Three-gunners, including three gunner Lena Miculec are snapping up the HIPERTOUCHE 24C. The 24C shares the same features as its brethren, but is further refined for minimal take-up, no stacking, an unbelievable trigger let off, minimal over travel and a consistent trigger reset - no matter how the trigger is pulled. The HIPERTOUCHE 24C has additional design elements that differentiate it from the other HIPERTOUCHE 24 models.

The HIPERTOUCHE 24C utilizes a straight trigger face for a more linear trigger pull, similar to using a custom 1911. The straight trigger allows users to position their finger in different places on the trigger to affect the feel of the trigger pull. The lower your finger on the trigger, the more leverage you have to pull it, thus, further allowing users to tune their trigger pull. The only trick to using a straight trigger - is repeatability and consistency - how do you find the sweet spot on the trigger if you are running and

gunnin'? HIPERFIRE has addressed this issue with their unique HIPERSHOE adjustable finger pad.

The HIPERSHOE can be easily installed onto the 24C's straight trigger and is readily adjusted via notches on the back of the trigger. The HIPERSHOE allows users to consistently index their trigger finger on the trigger face. It also provides 2x the surface area to spread the trigger pull weight out over the pad of your trigger finger. If anyone remembers the H&K PSG-1 Sniper Rifle - you will know what I am talking about - they used a similar device on their triggers.

The HIPERSHOE provides further advantages - it is adjustable. Users can further refine their trigger pull by adjusting the HIPERSHOE on the trigger face - Higher up for a more taugt, shorter pull and lower on the trigger face for a more relaxed, easier pull. The HIPERSHOE has 5 adjustment positions, when combined with the 3 different coil spring weights - there are 15, user configurable pull weights for the 24C! The HIPERSHOE makes for a repeatable, comfortable trigger pull that is second to none. I would compare the 24C to any of the top brands of triggers I have tested thus far - it holds it's own effortlessly.

HIPERFIRE is hitting the shooting world like a hurricane. Their design elements, quality production and enhanced reliability make their HIPERTOUCHE 24 trigger system stand out from the competition. I would definitely recommend getting some trigger time with a HIPERTOUCHE 24 ASAP!