

HIPERTOUCHE - HiperFire Trigger 24, 24E, & 24C Review



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I like great triggers and I cannot lie, you other shooters cannot deny, that when a trigger drops in fast and in place, without a spring flying in your face, you get sprung, and you finally, pull the trigger, your groups are tiny and not bigger. Ok, ok, I will leave the rapping to Sir Mix a Lot instead of Sir Shoots a Lot. I had to go there after testing the HiperTouch series of triggers simply because I was giddy with excitement and happened to be listening to the oldies rap channel.



If you have not heard about the HiperFire line of Single-Stage triggers, you should seriously consider them. They are absolutely awesome from the HiperTouch 24 to the enhanced HiperTouch 24E, to the full blown super tuned 24C competition model all in a game changing trigger design. Yeah, I know you have heard it all before, however this time it is different.

ABOUT HIPERTOUCHE - HIPERFIRE TRIGGERS

HiperTouch's founder, Terry Bender, had an idea to overcome many of the shortcomings of "match" triggers. Terry is not just some guy filing down sears and

swapping out low power springs in his garage, he is a mechanical engineering consultant. The approach to the HiperTouch design was new from the ground up. After he saw the potential of his idea in CAD simulation, he founded HIPERTOUCHE in early 2011 and began testing his first prototypes in 2012. Final designs began shipping in May of 2013 to distributors and large retailers.



WHY HIPERTOUCHE IS DIFFERENT

The ultimate challenge for a great tactical/hunting trigger is to deliver a smooth, fast, and flat pre-travel, very fast trigger reset, minimize lock time, assure a crisp light break, and with no noticeable overtravel all while delivering a high hammer fall impact. With match target triggers, the goals are the same but with even more refinement of all the above, with no perceptible pretravel.

The problem is that many of these trigger design goals are all opposing forces. A smooth, fast, and flat pretravel and crisp light final break all require low forces at the sear which equates to the need for lighter hammer and trigger springs which can lead to light hammer strikes and less reliable ignition. In standard trigger designs,

very fast trigger resets, minimized lock times, and high hammerfall impact require heavy springs which

creates a crappy feeling heavy trigger. The final dimension is tuning out pre-travel, overtravel, and ensuring a crisp trigger break which are all impacted by the above light or heavy springs. Bad tuning can further impact reliability and safety. The end result is that trigger engineers have their work cut out for them to strike a balance for a great trigger.

The compromise has been either a great single stage trigger that may have a light hammer strike here and there with hard primers, or a 2-stage which delivers a 1st stage pre travel which some claim slows down followup shots.



HiperTouch took a different approach by adding a third set of trigger assembly springs which work against a hammer cam to deliver the best of all worlds. Think of HiperTouch HiperFire triggers this way. Imagine you had a tiny super strong little magic trigger elf who holds back most of the extra power hammer spring's force until the instant you pulled the trigger. In essence your little trigger elf takes most of pressure off the sear union which allows for a smoother and lighter feeling trigger but still allows full hammer fall force.



The magic is delivered via spring cam-ed pressure on the hammer which counteracts much of the hammer spring force within the first couple of degrees of movement around the point of sear engagement. This delivers the perfect situation for a great feeling trigger and break. After the hammer begins to move forward the cam applies pressure the other way and greatly increases the hammer force. This increases hammer fall force, decreases lock time...etc. it's a best of both worlds design and its a totally new trigger design.

HiperFire (left) vs Std Trigger



Std Trigger Parts vs Hiperfire (center)

The HiperFire has three spring sets (light, medium-light, and medium). Initially, I thought the heaviest strongest spring would deliver the heaviest trigger pull however it is the other way around. The strongest spring exerts more pressure on the cam and delivers the lightest trigger feel. This is what the dual spring and cam design of the HiperFire triggers does. It's a mind screw when you first pull back the extra force hammer and have such a light trigger pull.



FIT, FINISH, FEEL, FEATURES & FUNCTIONS

The Hipertouch 24, 24E & 24C all shared many key features. All of the triggers are AR15/AR10 fire-control compatible with any lower receiver with industry standard .154" receiver pins. The triggers are screw-less "hard" tuned with static precision springs which inherently makes the trigger more reliable than a screw tuned design which can go out of "tune". The user can tune the trigger at 2,3, & 4 pounds with the three supplied spring sets.

Essentially all three of these semi-automatic HiperTouch HiperFire triggers are identical once the hammer begins to fall and all deliver best in class hammer fall force. Of course with all these similarities, many will ask what is the difference between them and why would not just opt for the best automatically. The answer is trigger tuning feel. You certainly do not want a super sensitive trigger on a duty/defense rifle and similarly you would not want a longer pre-travel trigger on a precision match target rifle.



I HIPERTOUCHE 24 \$185.00

The focus of the base HiperTouch 24 is to deliver a high performance "no modification" drop-in trigger upgrade for service/defense/duty rifles. For safety in high stress environments, the 24 delivers a flat but short and smooth per-travel with a fast reset. By comparison, the pre-travel for this model is just a tad bit longer than the cassette design CMC and Timney triggers, but the 24's pre-travel is shorter than what you would find on a Geissele 2-stage trigger.

The HiperTouch 24 is on a pretty even feel with the CMC from a feel and intent, however the CMC has less take-up but the HiperTouch has a better break. In this case I would say the HiperTouch would best suited to those builds that demand accuracy and a margin of safety. For a defensive rifle, this would be the trigger I would choose in the lineup.



II HIPERTOUCHE 24E \$215.00

The 24Elite has the initial pre-travel, delivers a faster reset, and the post reset pre travel is also shortened. In essence the 24E is tuned to be about twice as sensitive as the base 24 model for the needs of the competitive shooter, hunter and precision LE/Military sniper.

I would not put this trigger in a general purpose defense AR15, however if you had an defense rifle which you also use for competition and precision long-range shooting, this would be a great go to option. This trigger is similar to the very light AR-Gold and Timney triggers, but can achieve an even lighter trigger feel with very crisp trigger feel. The 24E has just enough pre-travel to deliver a very safe trigger, but can still deliver a match quality trigger feel.



III HIPERTOUCHE 24C \$235.00

Many shooters including me will say the 24Competition Model has no pre-travel, no over-travel, and a stunningly light break. Obviously there is some sort of travel, but it is so little the finger cannot perceive it. Adding the flat straight trigger blade and adjustable shoe increases trigger control significantly.

This is an incredibly fast running trigger which I would love to see one of the top speed shooters run. The splits are incredibly fast. You are going to see more and more 3 Gunners running this trigger simply because it is so fast and light. That said it is too sensitive for a defensive focused AR15 build in my opinion simply because the trigger seems to lack any perceptible pre-travel at all. To me it most closely aligns to a Geissele National Match trigger but in a single stage design.

The flat trigger design has become a favorite of mine in all sorts of formats from 10/22 rim fire rifles to this Ar15 design. With the 24C, the tunable trigger shoe offers another advantage for both finger placement comfort and fine tuning of trigger weight. I mounted this in my SanTan Tactical lower receiver and clipped on a 5.45x39 upper which shoots extra hard Russian Surplus rounds. Generally, I will have 1 in 200 that will fail to detonate, however the 24C greatly reduced that soft strike failure rate to only about 1 in 500. This shows that even the top end of the HiperTouch line can still bring it for both a stunning trigger feel and best in class hammer fall force.



FINAL THOUGHTS

You will see these trigger quite a bit in builds going forward simply because I believe HiperTouch has delivered on a truly innovative design that actually works both theoretically and in practical use. The price ranges are extremely competitive to other high quality triggers in the market as well... The 24 is a screaming great deal with no tunable trigger in the \$185 MSRP price range.

HiperFire Ready to lock back

For all the good, there is one little drawback; installation of the two tuning springs is not as simple as a standard trigger. As you should with any gunsmith work, wear safety goggles because my tuning springs went flying a couple times between the installation of the various models. After HiperTouch read through my review they suggested I include their installation video shown above. You get the hang of the dual spring install after the first couple issues however it is the alignment and compression of the two springs which take a little patience.

I made the suggestion to HiperTouch regarding a drop in cassette style trigger however there is no room to allow this in the HiperFire design. It is my belief that the all-in-one triggers offer more factory tuned precision and could be pre-configured from the factory with the light-medium spring set, but in this case that idea will not work.



One of "the" selling points of the HiperTouch HiperFire triggers is the class leading hammer fall force. My 5.45x39 Ballistic Advantage barreled upper firing the Russian Surplus 5.45x39 really separates the match trigger herd quickly. The main reason is that the Russian 5.45x39 primers really need a very hard smack to reliably detonate. Every "match" trigger I have ever

tested with the stubborn 5.45x39 Russian Surplus Round has decreased detonation reliability over a standard AR15 MiSpec trigger simply because in almost every case, Match triggers deliver a reduced hammer fall force. I don't have a digital force gauge, but I do know that typically Match triggers have me practicing "tap and rack" drills more often than AR15 MiSpec triggers. Regardless of which model, the HiperFire trigger not only delivered reliable detonation performance above a MiSpec trigger, but detonation performance on par with an extra heavy hammer spring. This should be reason alone for people to heavily consider which trigger they are installing on a defensive focused rifle. I will note that I have never had an issue with regular match triggers detonating 5.56 primers, however the HiperFire triggers provide an extra margin of reliability.

The HiperFire HiperTouch is an outstanding line of triggers which is turning heads in the industry and changing minds about what a great trigger can be.... Even if you are not a budding rap star. "I like great triggers and I cannot lie..."

SPECS

Shared Features of all Hipertouch triggers

No Screws, No Lower Modifications

AR15/10 Fire-Control

Robust Single Stage, Semi-Auto

User-Set Weights: Light, Med-Light, Medium (2-4lbs)

Small Pins: .154" Dia.

Best in Class Hammer Fall

I HIPERTOUCHE 24 \$185.00

Focus - High Performance, Service Rifle Upgrade

Smooth, Fast, Flat Pre-Travel & Reset

II HIPERTOUCHE 24E \$215.00

24Elite Enhancements

Focus - Competitive Shooters, Precision Hunting, & Precision LE/Military

Pre-Travel is Halved, Faster Reset

From Reset, Pre-Travel Shortened Again

Best in Class Reset

III HIPERTOUCHE 24C \$235.00

24Competition Enhancements

Focus - 3Gun, DMR/match target

Straight Trigger, Use w/ or w/o Exclusive Shoe

HIPERSHOE™: Fine tune Travel & Weight

Fast Splits and Controllable Repeat Fire

Retains Best in Class Reset

SOURCES

HiperTouch HiperFire Triggers - <http://www.hiperfire.com/>