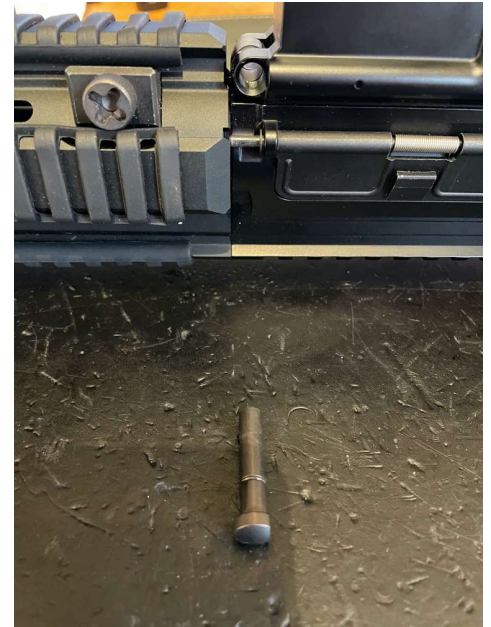


Tokyo Marui HK 416D Devgru Jefftron Leviathan Optical To Stock Installation

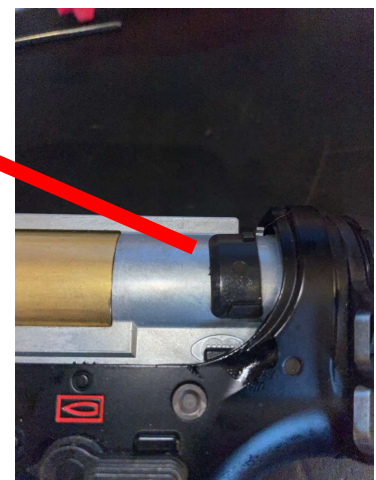


First step in the rifle disassembly involved removing the forward pin.

Simply push the pin through. Pull the charging handle slightly back while sliding the upper receiver off the lower.



Note: there is a plastic spacer either side of the gearbox assembly that should be removed now to avoid losing them. These spacers are labelled L and R and fit on the rear tabs on the upper receiver





Lift up the rear of the charging handle and remove, complete with the return spring

We can then remove the mock bolt and recoil assembly

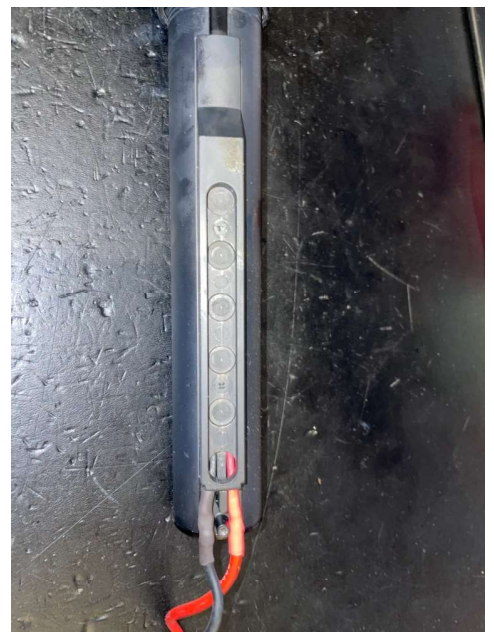


Push slightly forward and lift the rear of the assembly. The long spring is held in place by a small tabbed washer which can be easily lost so watch this as you lift the assembly out.

We can now continue with the disassembly. This particular HK 416 has a failed ETU / CTR stock mod, as well as a few internal modifications. It is self explanatory regarding removal of the main parts on the standard rifle using this guide as a reference.



Remove the stock and then stock rail guide / wire cover



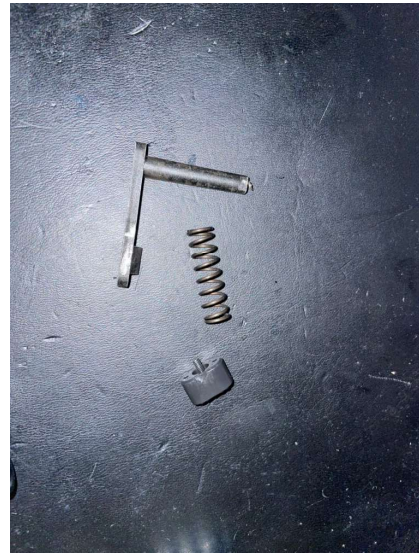


Using an M4 buffer tube wrench, slacken and undo the castle nut, then slide the sling plate rearwards and feed the wiring through both parts. Unscrew and remove the buffer tube. Note: If your TM M4 variant is standard then the main spring is attached to the piston and will remain in place until piston removed and modified.

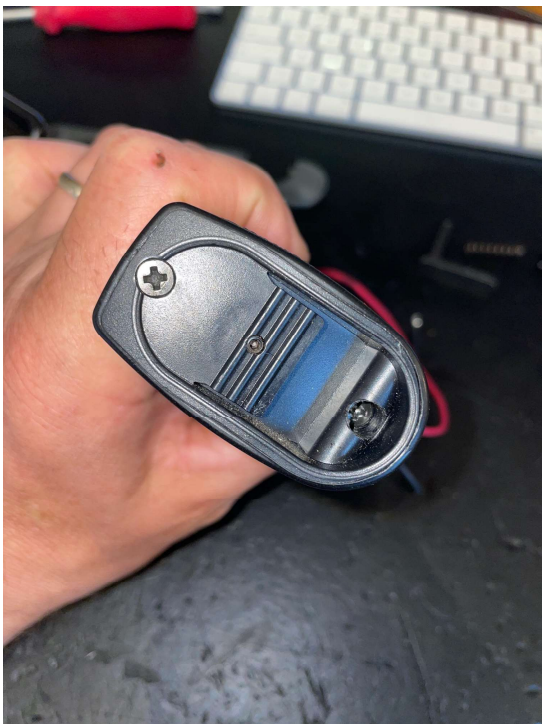




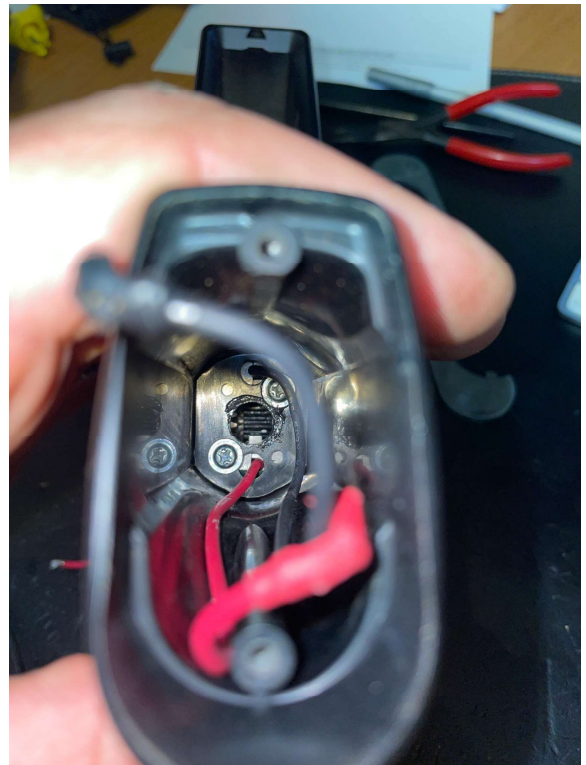
Unscrew and remove the magazine release catch and spring using a 1.5mm Allen key



Remove the pistol grip base plate securing screws to gain access to the motor and connections. Do not lose the small round metal disc on the motor. This is where the motor height adjust screw contacts for adjustment.



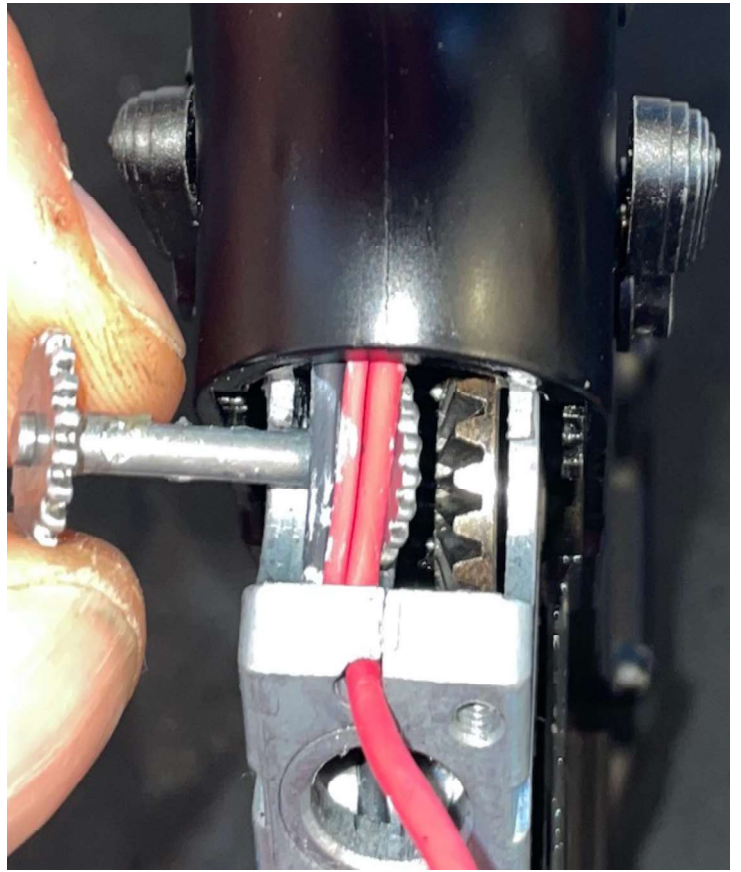
The motor can now be disconnected and removed. Note: pay attention to the wire orientation and routing within the grip. The wiring shown is reversed from standard due to the fitted ETU.



Remove the 2 pistol grip securing screws and slide off the grip.



Grip is now removed and as this particular rifle is an HK 416 with ambi safety, you will notice the small gear as the wiring enters the gear box. This can now be removed by carefully passing one end under the wiring.



Push through the trigger pin and remove.

The gearbox can now be removed from the lower receiver.

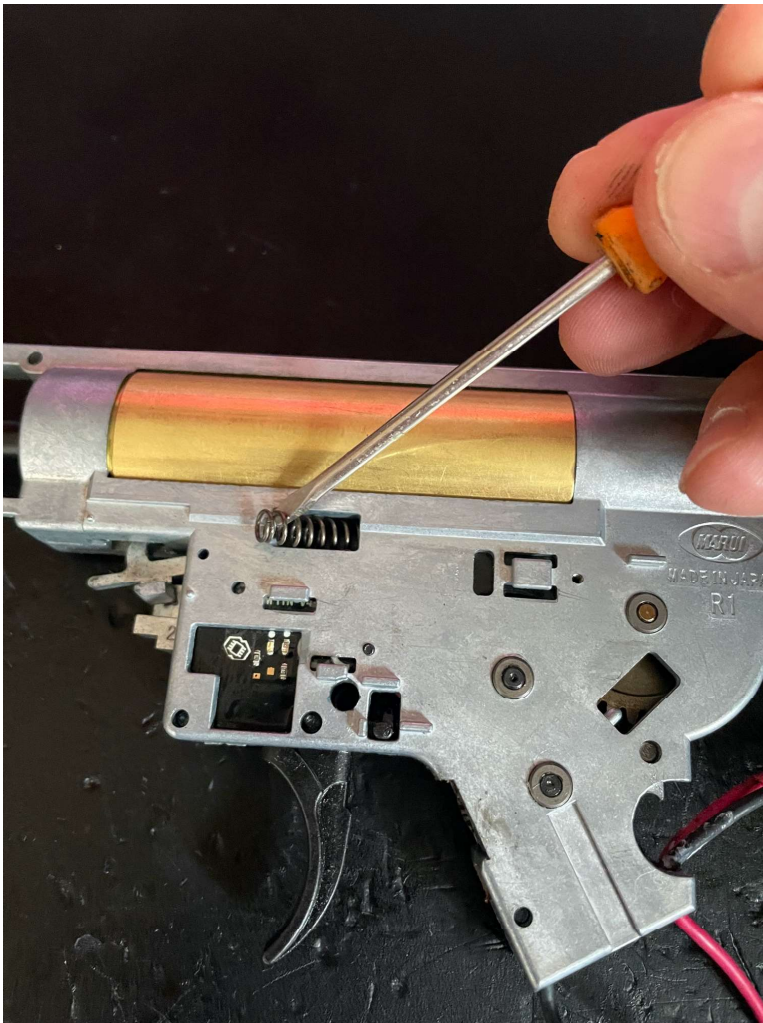


Select part way between Safe and Semi which will allow the gearbox to lift upwards at the front. Lift the front end of the gearbox slightly and remove the bolt stop catch.

With the fire selector still roughly halfway between safe and semi, work the gearbox forward and upwards to remove it.

Note. Selector plate may detach if previously fitted with an ETU. If using the original trigger switch, then it will stay in place until removed.



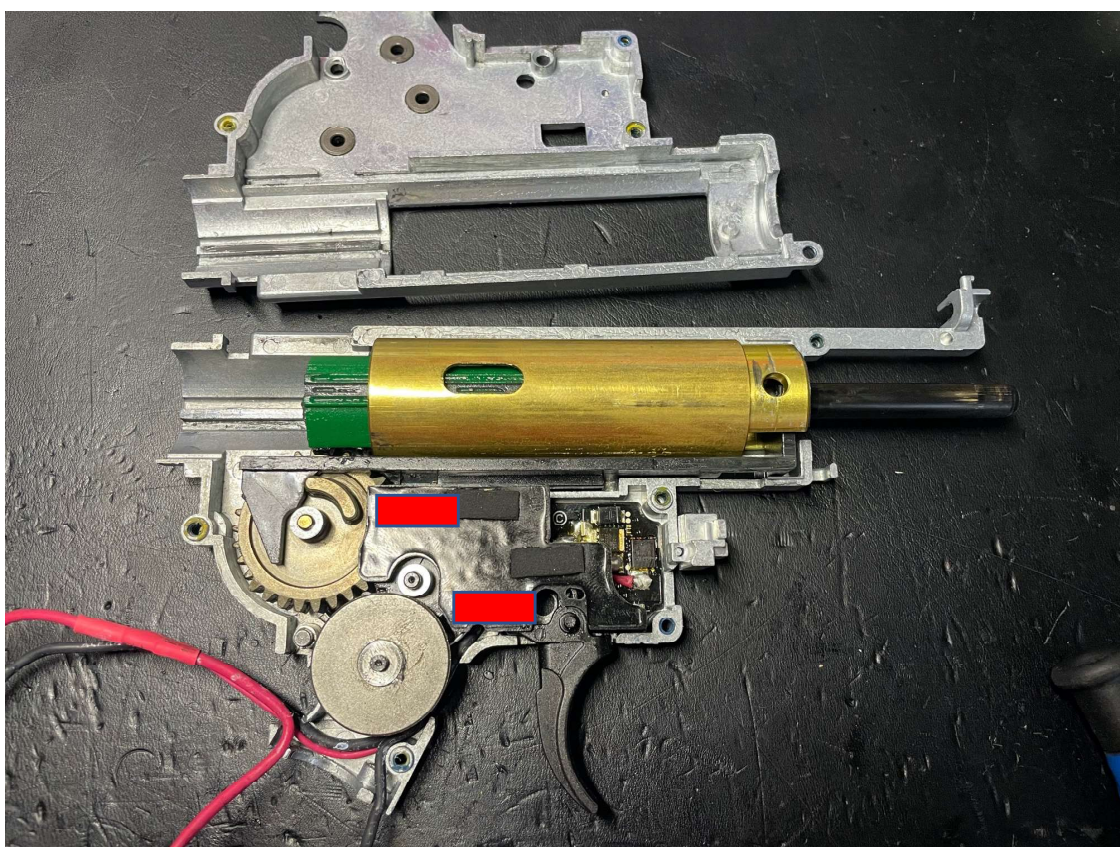


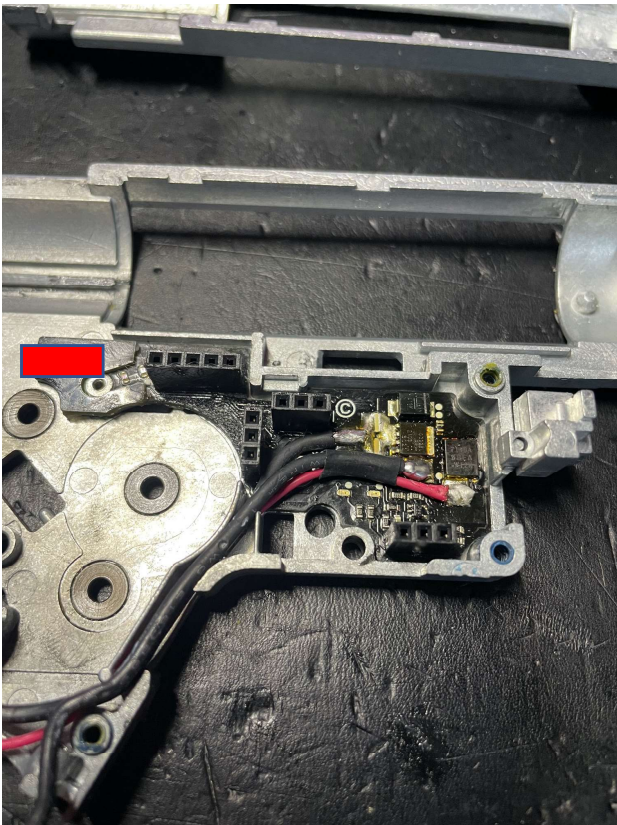
With the gearbox now free, remove the tappet plate spring with a flat blade screwdriver. Some people don't but I find it makes life easier with no spring tension at all in the box itself. Next, unhook the small bolt stop mech spring and then undo the screw before removing it and its parts.





Remove arrowed screws and separate gearbox halves carefully. This rifle was fitted with an ETU that had failed totally.



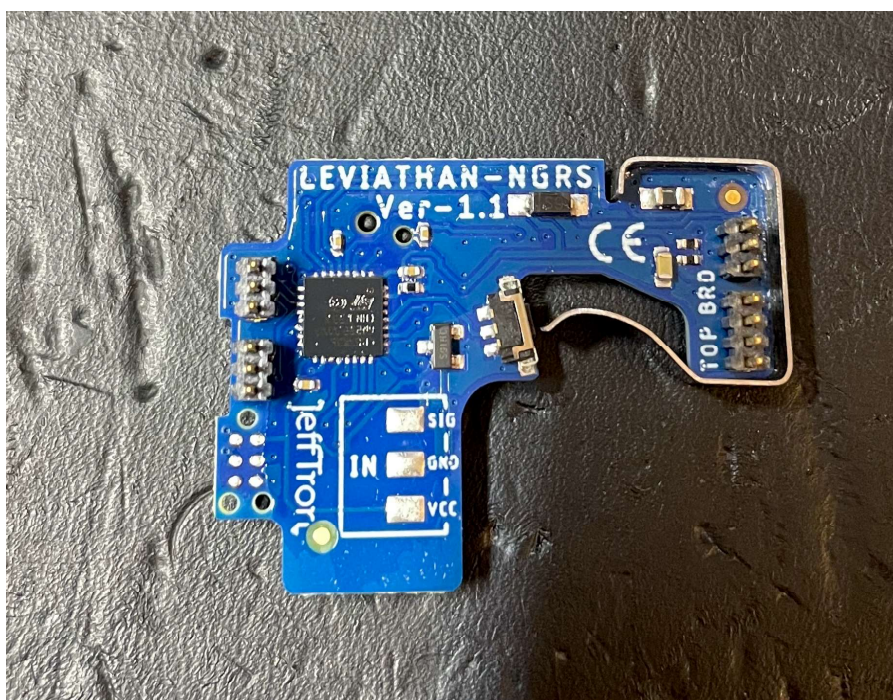


Remove the gearbox components. If re using the gears, then ensure you keep them on the correct gears to save a job later. Make sure none are stuck to the bushings! This gearbox has steel bushing although TM standard ones are plastic.

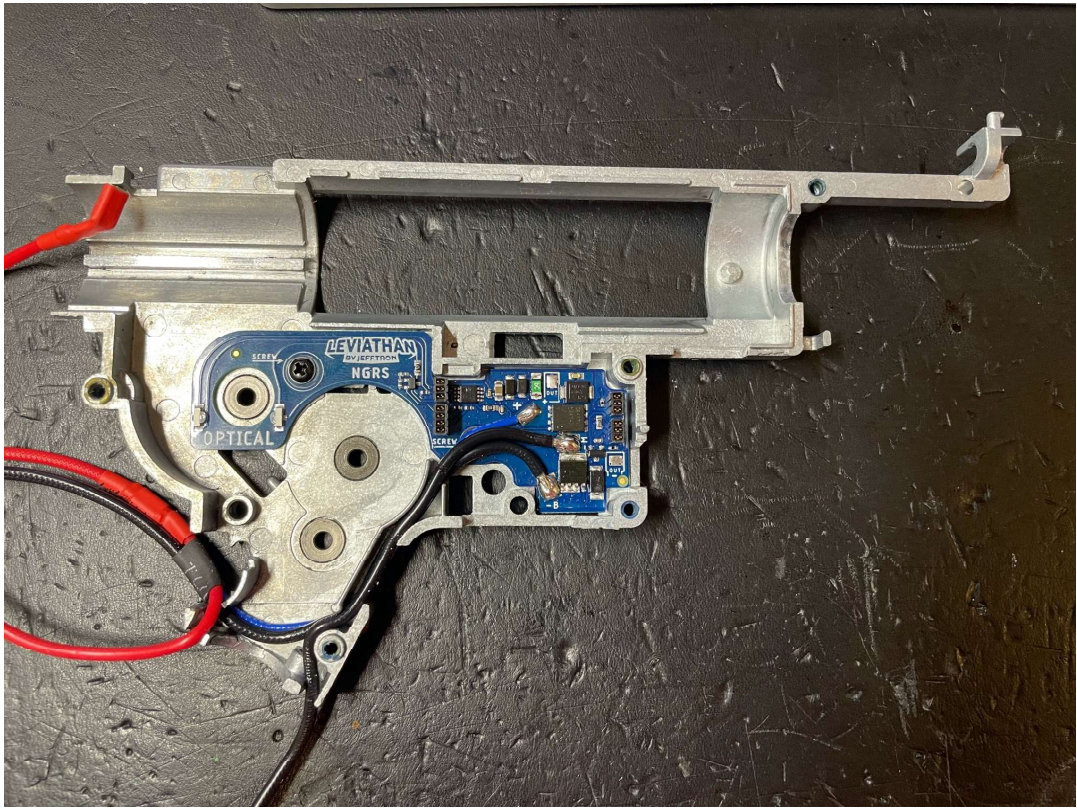
Finally, we get to install the new Jefftron Leviathan NGRS Optical.



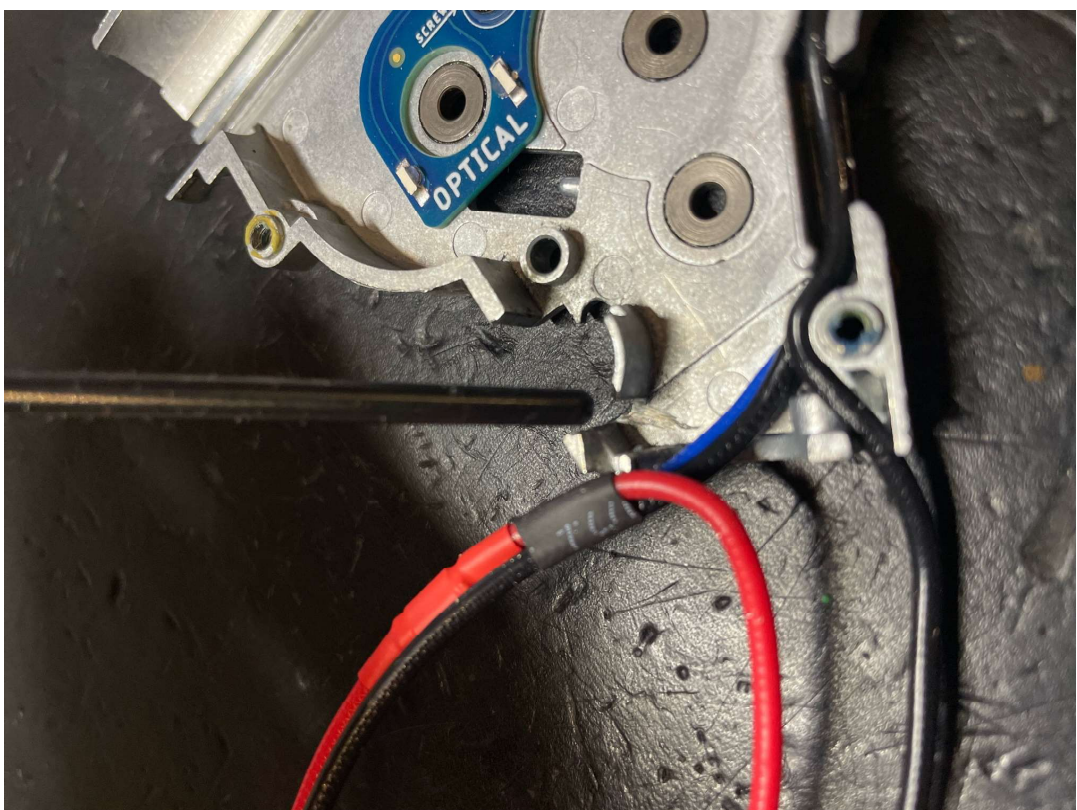
Jefftron have obviously put a lot of time and effort into this unit. The new style wiring is very nice indeed. Thinner and more flexible than the older type.

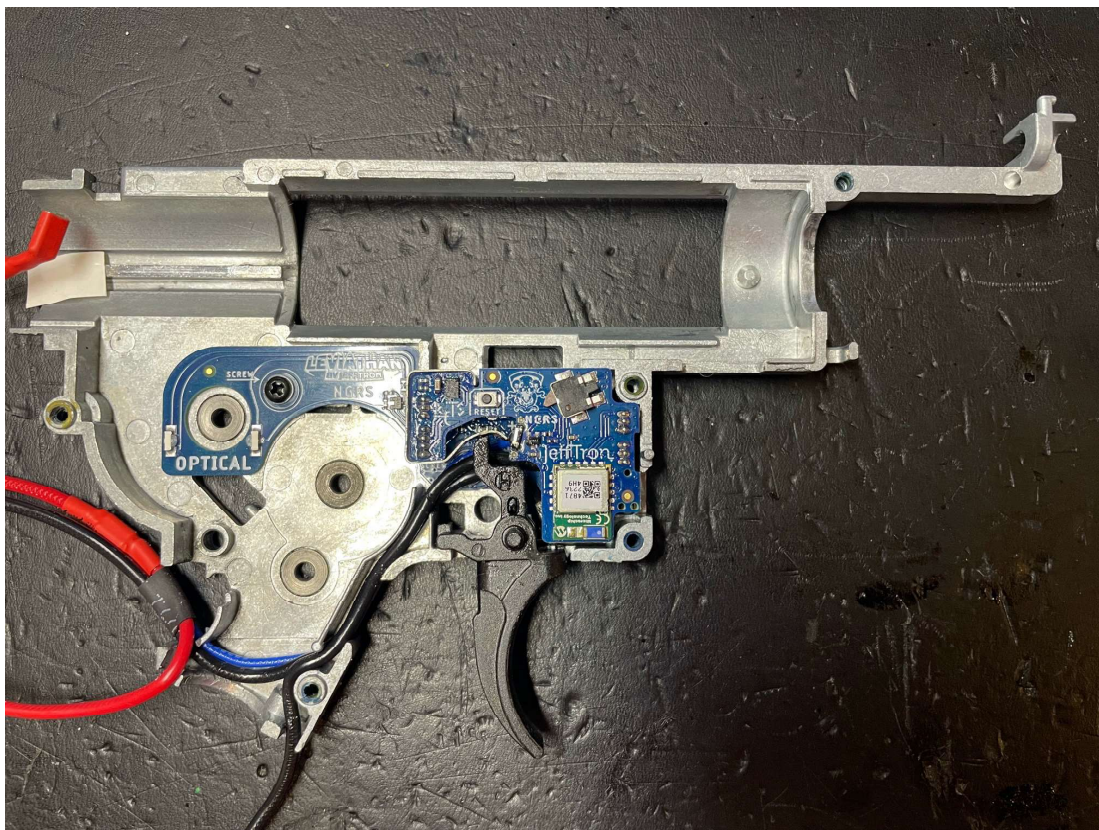


Sperate the upper and lower board. Set the upper to one side for now.

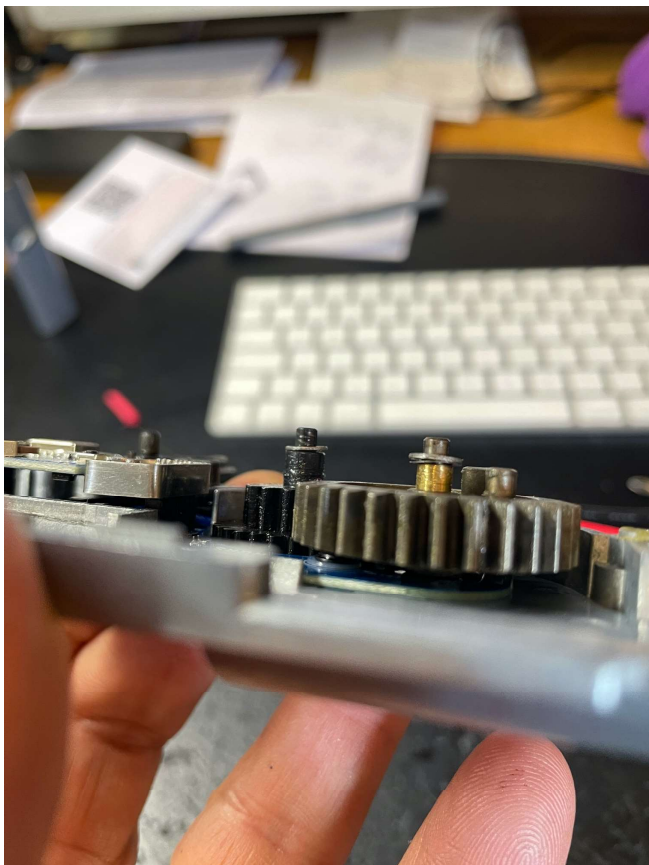


Fit lower board in to gearbox using 2 screws and washers provided. Ensure it is laying flat. The signal wire and battery negative are required to exit the rear of the gearbox. This area needs to be around 2mm wide and can be ground out with a dremel or small file. The new type wiring is a pleasure to work with and holds its shape very well.

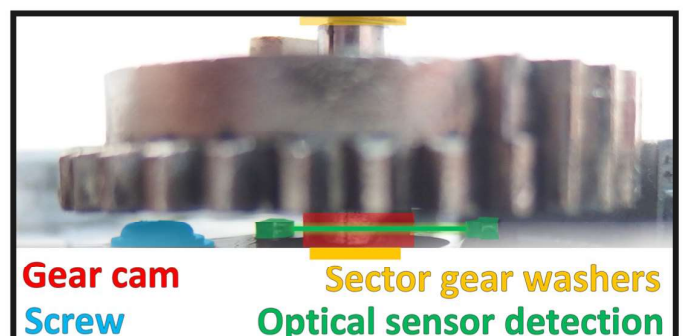


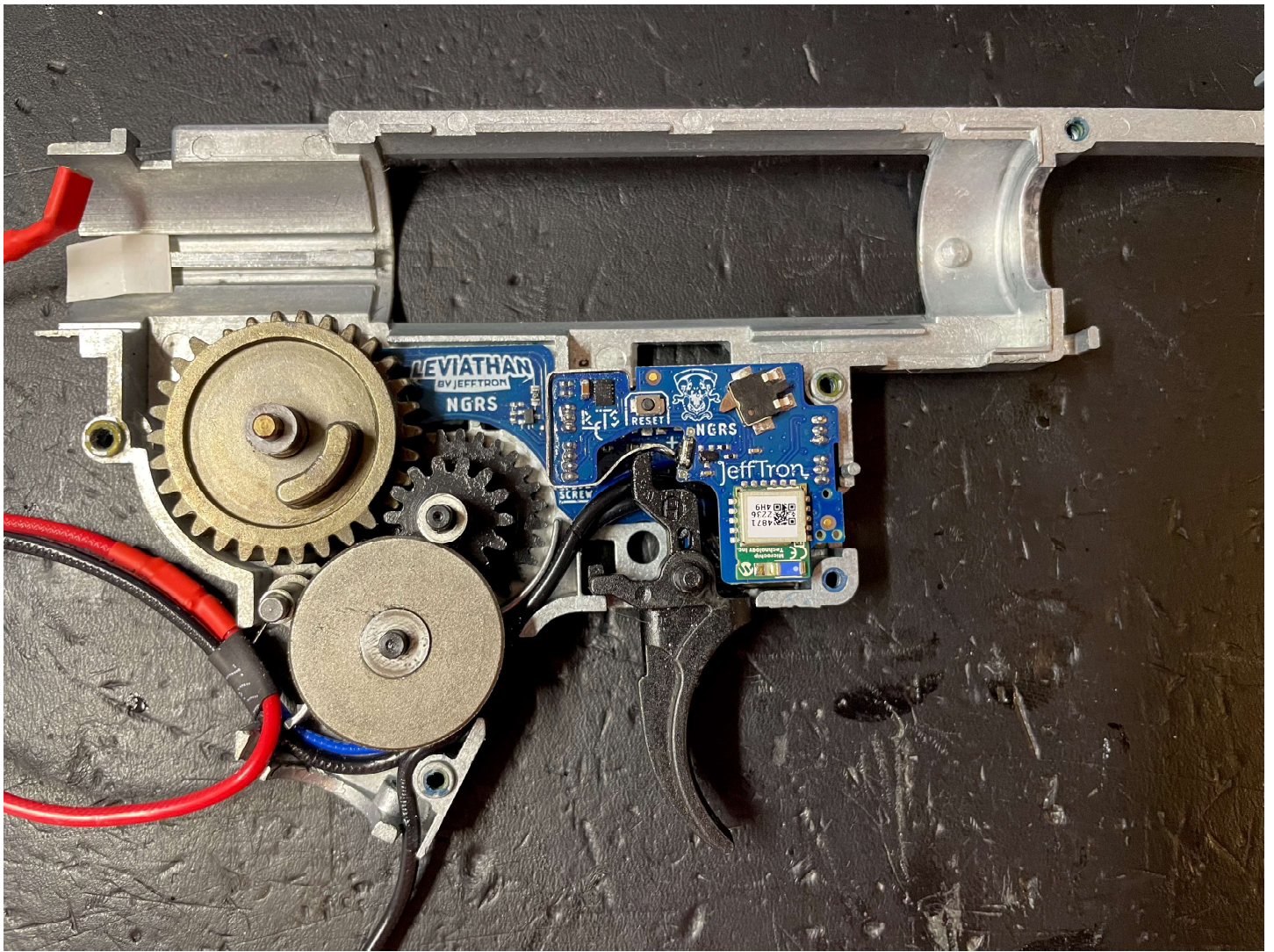


Trigger in place to check no fouling of wiring. Notice the real feel trigger spring which adds a touch of realism, unlike the dead feel Gate Titan unit.



Taking the sector gear and retained shims. Ensure there is clearance between it and the unit sensors.





Remaining gears, anti reverse latch, trigger and trigger spring, Top unit board can then go back in.



There are 2 foam pads to fit in the other half of the gearbox to keep pressure on the unit when box is closed. Use some IPA to clean the box before sticking these in place.



Reassemble the gearbox and bolt catch mechanism. You can see how it operates the bolt stop microswitch arrowed. Easiest way to refit this mechanism is to lay the spring in place and then gently insert the retention screw part way before hooking it to position. Then tighten the screw down.



Rebuild the rifle in the reverse sequence. Full instructions are provided by Jefftron for installation in a standard rifle.

Note. A small white sticker is required on the selector plate for optical sensors to detect its position. The same system is used by Gate so this was not required in this case.



https://www.jefftron.cz/upload/navod/manual_leviathan-NGRS.pdf

Some small modification to the gearbox shell is required to allow wiring to exit at the rear but this does not affect anything, even if going back to standard in the future.

Set up of the rifle is then required using the Leviathan APP. Full instructions in the link above.

Big thankyou to Jefftron for their help with this modification. The company strive to assist with any issues as fast as possible. Cannot recommend them enough.



LEVIATHAN
BY JEFFTRON

MANUFACTURER

Ing. Filip Němec

Zahradní 599, 538 03 Heřmanův Městec

ID: 87936062, TAX ID: CZ8503013475

Made in Czech Republic