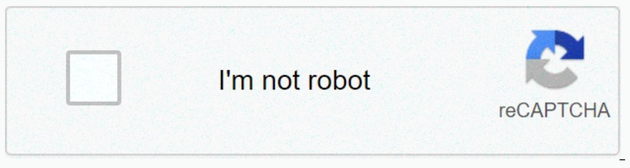

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Airsoft guide to upgrading

Tokyo Marui MP5J Upgrading your airsoft pistol is the best way to increase performance. It is indeed an excellent idea; However, you can't turn a turd into gold. By a turd, I mean that cheap $14 AEG from the flea market will never be a Tokyo Marui. Sorry, it won't happen, it never will happen. Now, a good mid- or high-tier gun is an excellent start and allows you to upgrade your already good weapon to something better. You spend a lot of money on a great gun. But still, you need to upgrade the internals. Are upgrades really necessary? I usually buy a gun with a good, durable body that is built to last. Or I choose a gun that I really want, like the Scorpion EVO, and upgrade the performance to what I want. What you will see most often is a great body gun with only average internals. The reason for this is simply part of the airsoft culture. Companies know that you are likely to upgrade your gun so they know average internals is not a big deal. If you want to buy a gun with a good body and good internals but don't want to upgrade, I suggest purchasing models from two companies. Both Lonex and Real Sword make excellent quality internals and great bodies, but you pay for that quality. Certain categories, such as sniper rifles, need to be built almost entirely to size. That's why they're bad choices for beginners. You start with a decent $150 pistol, and easily spend another $150 upgrading. There are a few simple and simple upgrades that can increase your performance quite a bit. Hop-Up Bucking – A good hop-up will do wonders for your gun. It's probably the most important factor when it comes to getting accuracy out of your airsoft gun. A hop-up bucking is a rubber tube that fits over the barrel. It has a nub that puts pressure on the BB and creates a backspin on the BB. Backspin AIDS within reach. Piston Head O-Ring - Adding an O ring to the piston head is probably the easiest upgrade. Add a normal size 14 O ring to a piston head to improve compression. Better Springs - Adding an improved spring, such as an M110 or M120 for extra range. If you add new feathers, you should also add metal canisters. M110 and M120 feathers are much better for faster fire speeds. Metal Bushings – If you are running a fast speed of gun, you need metal canisters. Shimming – Most guns have a bad fat and shimming job. Fix it, make it better. It's an easy one and needs upgrading to a gun. Tightbore Barrels – A good tightbore barrel is going to increase your overall accuracy. It will often drop a barrel from 6.03 to 6.01. This is an excellent upgrade to run with. Piston Head – If you want to continue Then adding an O ring to your piston head, you can replace the piston head altogether. A high-quality aftermarket piston head lasts longer and performs better than any stock model. Then add an O-ring. Certain pistons are designed for others are designed for high speed. Make sure you choose accordingly. Even better springs - An M130 spring is an excellent upgrade, but it requires even more upgrades to use properly. An M130 is better for long distance accuracy, not the speed of fire. You still need metal canisters. A spring guide is also a must at this point, preferably a metal with ball bearings. Gears - If you're going for an M130 spring, you'll probably need to upgrade your gears. If not, they can break pretty quickly. A good set of more durable aftermarket gears will work much better with an M130 spring. Engine - Like the gears, you need this upgrade to keep the gun running. Some stock engines can, but if not, go with an EG1000. Battery - Go with a higher quality battery. It will take longer in general. Kind of like a 9 v with 1600 mAh. This is a simple upgrade guide. Each model comes in different configurations. So what you need to do is learn your gun. Maybe it already comes with these upgrades, or maybe not. Some guns by some companies also use proprietary parts and can be difficult if not impossible to upgrade. This is where research comes in handy. Also popular brands that have been around for a while are probably even longer around. Disassembling an airsoft gun can be intimidating, so investing some time with a mentor is ideal. There are also excellent video guides on YouTube that are worth following for more common weapons. Disclaimer: All airsoft rifles are required to tip (1/4 inch) of the barrel permanently colored in blaze orange. No one may openly display or expose an imitation firearm in a public place. The term public place: a public open or exposed to public view and includes streets, sidewalks, bridges, alleys, squares, parks, driveways, parking lots, cars, whether or not moving, and buildings that are open to the general public, including buildings serving food or drink, or providing entertainment, and the doorways and entrances to buildings or dwellings and the grounds that enclose them. Any person who changes, changes, removes, removes or destroys any colors or markings necessary for by any applicable state or federal law or regulation, for an imitation firearm (replica firearm), or device in any way that makes the imitation firearm (replica firearm) or device more like a firearm is guilty of violating state or federal law. By accessing the Site, you declare that you are over 18 years of age or the age of majority where you live, as appropriate; that you are the owner of a credit card that is used to on the site; that you are familiar with all local laws in your area that affect your legal right to access airsoft products; that all the products you buy are for your own private pleasure and that you will never share these products with a minor in any way. This article not only created as an answer to increasing and frequently asked questions of our customers, but it also allows us to eradicate and exclude certain rumors that prevail in the Czech airsoft community. You know - someone can read an article somewhere and without thinking if it is possible or not, please share this innacurate information among other people who are interested. A frequently reported falsehood may eventually become the truth. From the beginning, we would like to point out that we certainly do not patent the thoughts and all the information we have provided below. It is based not only on our knowledge, but also on the experience of our foreign colleagues and friends. The capabilities, variants and configurations to improve weapons are really great. First, you need to decide whether you choose an economical option that will only change less amount of strictly necessary parts or if you choose a variant that is more complex and expensive. The final performance may be similar for both versions, but the basic cheaper parts left on the cheaper alternatives - or newly installed cheaper parts of lower quality - will be worn out faster. This causes the need to often res replace the weapons and some cheaper parts that you will have to do sooner or later – this simply means an optimal upgrade is performance while maintaining a reasonable life of parts. The best option is a comprehensive upgrade with the right components for specific spring level. It's definitely bigger one-time investment mainly through the use of only quality components, but for the long term it's definitely the best choice. The gun then achieves the best performance and an adequate life of internal components that are linked together. Lately more and more frequent requirement is also the gradual upgrade when with the each service of weapon (e.g. when maintenance) is replaced at least some of the weakest parts and then increase the life of the internal mechanism and possibly the performance of the weapon. The whole process is definitely more time consuming, but for gun it is better than the first mentioned variant (performance at the expense of longevity). In the following article we will show what is the upgrade for AEG ... Spring It is actually the main unit of power that participates in the greatest degree of power/energy of airsoft gun. Their tag is different by specific manufacturers and destination but the names usually start with letters M and SP. In general, that number after the letter is the theoretical muzzle speed specified in m/s. For example, with spring M120 (of course - for correct alignment weapon) the 120 m/s. Sometimes the stiffness is indicated by a percentage. The number in this case means how spring is stronger than the elementary spring. In general, we can say that marking it by a percentage is very confusing and complicated. The important but often neglected factor is the real stiffness of spring. Because there is no standard or generally respected characteristic. For this reason, it is possible to measure the actual stiffness of the spring from one to two levels higher than indicated on the packaging. Logically, this can cause problems after the strain of the weapon when the configuration is set dimensionally for a particular load, but the reality is completely different, so there is a more unforeseen pressure on all components, causing higher wear and damage. In our service, we measure the actual stiffness of each spring we install. We take into account the range of spring stiffness of Systema brand that was first on the market and therefore in our opinion to identify at least some standard. These springs achieve the realistic performance and labels on the packaging answered feeling that spring M120 = 120 m/s, M150 = 150 m/s etc. It makes absolutely no sense to play the game like: I have a gun with spring M120, but the power of my gun is 145 m /s! Hey I'm a big man. Surely you've heard from someone that some brands of feathers are better than others and weapons with them achieve better performance. Again, this makes no sense, because it is always about comparing the wire diameter, the material, the winding method and the number of bends. It is simple, it is not possible to make anything more of a spring and this is why it is more important that the realistic stiffness of spring is a indicated parameter of the producer. Also keep in mind that each spring, sooner or later, will weaken and stabilize at a lower level (mainly for stronger types). Also, there is no point in buying an expensive spring. It is much better to replace spring once every two years for a new one that will not be tired than to spend money on an unreasonably expensive product. Cylinder set Other important components of airsoftguns that determine its performance and stability is a cylinder set. It consists of a nozzle, cylinder head, cylinder head and piston head. If it malfunctions or a leak, even the strongest spring won't help you. We also want to emphasize that it is not the best choice, especially for cylinders, to combine large quantities of different brands and manufacturers. It is mainly for common incompatibility and therefore has proven for us the cost effective variant with the wide variety of components of brand SHS with which you get great results for a very good price. The individual category are BU (Bore Up) sets, which are characterized by a larger capacity and different dimensions of components (so not combined conventional types). Thanks to precision and technical solutions, it is possible to get the biggest performance increases compared to the realistic stiffness of the spring. With superior quality is known especially NBU sets from the Japanese company Systema. Nozzle Some cylinder components, such as nozzles, are usually specific to the length or shape for a specific type of weapon series. During the upgrade, it is very common to change and shorten the nozzle to the required length, which is often different from the size of the parts supplied from the manufacturer. For this reason, a mouthpiece with double O-rings is not suitable - it is difficult to modify it, they disintegrate often. Cylinder heads The cylinder heads differ in their shape, position or length of the exhaust and most are labelled according to the type of gearbox or weapons for which the part is intended. The base heads are usually made of plastic with a metal exhaust, variants for upgrade are usually made of aluminum or stainless steel with a different number of O-rings on the circuit. Another important factor is the solution of the impact rubber, which can be flat or in the form of a cone. We certainly don't recommend using the heads that just have a simple O-ring on the impact side. It will soon be destroyed under the strokes of the piston head and strokes of metal on metal will not lead to a good result. Cylinder cylinders are the same length for most AEG weapons (although there are a few exceptions such as SR25, PSG1, L85, etc.) and they differ only in the capacity of the air, which is affected by a hole in the cylinder. The suitability of the cylinder depends on the length of the inner vessel and ultimately on the strength of the spring used - for extra strong springs, cylinders with higher capacity are used respectively as cylinders without holes. Like other parts, we can find the most important division here based on the materials. Aluminium with anodised finish, copper cylinders, chromed, nickel-plated or made entirely of stainless steel. Other properties may also be an external adjustment of cylinder walls. The base cylinders are smooth, the better ones are already ribbed or mainly ribbed in the longitudinal direction to allow better heat dissipation. Piston head The most universal use has piston head. We can say that in any AEG it is possible to use the same type of head, of course with respect to the impact area of the cylinder head. Piston heads are made with one or more O-rings. The most commonly used material of an improved head is a metal (aluminum), but there are also certain lighter types of plastic heads that are suitable for the weaker Springs. Each good piston head must be fitted with axial bearing for a smooth rotation of the spring in the piston. Spring guide It is used as a component that directs the entrapment and spring to the correct place in the gearbox. The most type is made of plastic. Subsequent variants are often made of plastic based in alloy or stronger made entirely of steel. Some models are equipped with axial bearing and the best, such as rotation of SHS brand, also offer steel rotating body. The spring guide is easy to change depending on the stiffness of the spring or the requirement of the life span. By influencing the compression and torque of the spring leads to transfer of forces on the spring guide and if it is made of plastic, it can easily break down and deflect. If the spring guide and piston head do not have axial bearings, this can often lead to the spring breaking the influence of turning. Piston Nowadays it is practical for an upgrade not to use a plastic or aluminum piston, as was needed in the past. On the market for several years is an ideal solution - it is a classic blue piston from SHS brand, which combines lightweight polymer body, fully steel toothed comb and at a great price. Pistons are still manufactured with half cam, but we believe they have become outdated. The handicap is a smaller surface area of teeth and less mechanical resistance due to the construction. On today's market there are many powerful engines and batteries, so you even use conventional piston with full teeth and standard acceleration of wheels that will work well on the strongest feathers for a long time without problems. It makes no sense to use pistons that are just a few metal teeth and the rest of the teeth are plastic - it's already obsolete as well. MOS FET, switch contacts, electrical installation Most weapons in the basic model have switching circuitry using conventional trigger contacts or microswitch. Every time you hit the trigger between contact skip electric arc. It gradually burns touchpad contacts and they end up electrically non-conductive (gun is dysfunctional). This solution is not perfect, and we recommend retrofitted electronic installation by MOS FET set. This solution ensures that you never have to solve the problems with damaged or non-conductive contacts of weapons - we recommend this solution for weapons with basic spring and it is very important for weapons with extreme feathers. MOS FET for switching also slightly higher heat speed, shortens the delay after you put on the trigger and saves battery power. We can find a huge amount of electronic switching kits we market a huge amount. Some of them have integrated various extensions, such as engine revolution control, engine brake, programmable modes (semi, burst, car), battery undertion monitoring, etc. However, it is to each person's judgment whether it is worth investing large money for elements, although you don't use them. Probably the biggest pioneer in this market is ASCU (Airsoft Smart Control Unit) of Airsoft Systems company. Of course Modern electronics allow programming of shooting modes, protects the battery from overcharging, can be a realistic function of trigger, detects problems in the gearbox, combined with ASCU Hop-Up chamber will allow for detection of an empty cartridge and will completely change the function of a mechanical shooting interrupter so that the engine brake can finally get some use. When you upgrade each AEG weapon it is worth replacing the original wire for a higher quality wire. They can be easily recognized - pure copper or copper with nbsp; highly flexible beam of the high number of harness, wire section of 1 - 1.5 mm, flexible and heat resistant silicone insulation. Some technicians tend to use cables that are too strong, but they forget that determinant of wire resistance is mainly the length - even here, everything in moderation. We definitely recommend replacing the connectors for better and more modern - ideal types are gold-plated with lower resistance. Connectors for modellers T-Dean have become the standard for upgrading AEG weapons because they better handle higher electric currents, are at a competitive price and are very user-friendly. Outdated, but the most common connectors are still Tamiya and Tamiya mini. Gears The latest trend are revolutionary gears of brand SHS with an excellent ratio of quality and price. The manufacturer offers a whole range of sets - from the fastest gears to the slowest types of half-tooth piston. From such offers you have to choose yourself, it is simply to determine the gear ratio correctly based on the spring, engine and battery. We offer more expensive gears from manufacturers Classic Army and Systema as well. Some people unfortunately still mistakenly think that high torque gears are made of different materials and therefore have greater durability with use on stronger feathers. But it is not true, the material used by manufacturers to upgrade gears is still the same and they only change the size of individual wheels and the number of teeth - this determines the ratio of gear. Gears with flat or spiral teeth are used for the conversion of torque into AEG systems. Sets are usually completed from three separate pieces of gears. Spiral gears are considered more durable and quieter because the teeth are smaller and have a larger contact area. Their disadvantage is lateral displacement which can lead to axial loads on the radial ball bearings of gearbox, which can lead to damage. Spiral gears are therefore required to be installed only with the most resistant ball bearings with a diameter of 8 mm Higher. Sets with flat gears are often used and probably most widespread. Their installation is simpler and a less demanding precision arrangement. As mentioned above, the choice of the correct gear ratio depends on the spring, strength/torque of the engine and the battery in use. We always recommend putting the kit together to achieve the healthy cadence, i.e. about 14 to 20 rounds per second. Lower and higher cadence - than recommended - is potentially dangerous for any AEG weapon and it will lead to wear and tear of internal parts. However, some customers attach great importance to a higher rate of fire because it will provide more firepower from their weapons. Anti-reversal latch as the name suggests, this piece along with a spring prevents accidental release of gears after each shot. On most anti-reversal locks chipping the edges can occur, but more often a problem is cracking the spring that presses on the edge gear. Delayer It is a small rounded piece or drip shape made of metal or nylon. Delayer is for clicking on the piston wheel, is not emphasized, so the main features are mainly the shape. The shape of the delayer along with the shape of a flag on a hanger of feeder affects the operation of the mouthpiece and the duration of his stay in the hop-up room respectively open time of the room. Its use usually solves the problem with poor nutrition of magazine during higher cadence of arm. Tap plate It is the plastic piece that moves with the mouthpiece in the room. Moves forward in slots of the gearbox which usually creates tension on the spring and moves backwards causing tappet plate to attach to the piston gear. If the nozzle in the room is not moving/feeding and the gears are still turning, it is probably the problem with this part or the spring. For each type of gearbox is usually specific shape and length of tappet plate. Bearings Normally airsoft pistol as a standard contains 6 radial bearings that are used for fixing the axis of gears to prepared holes in the gearbox with diameters 6-9 mm according to the type of skeleton. Bearings besides dimension are divided between classic flat shrubs (of different types of metal or nylon) and ball bearings that have a smaller rolling resistance. Disadvantage of ball bearings is less mechanical resistance and risk of damage, especially for smaller types of bearings (diameter 6, 7 mm) and stronger feathers and spiral gears. Hop-up rubber hop up buckings have a very large amount of different qualities, characteristics and price ranges on the market. Each manufacturer has slightly different characteristics, different dimensions or materials used. Another important factor may be the shape of the pressing protrusion or the size and material of the press roller. All of these parameters have great impact on performance, performance stability, hop-up effect performance, etc.. - ultimately the accuracy the gun. This consumer part is pushed on inside the hop-up room. The wrong choice of rubber bands or improper installation may be Easy to lose more than 10 m/s from the power of the weapon. No responsible technician would tell you in advance what the best rubber bands for a specific weapon and upgrade. It is necessary to test different rubber bands and keep the best. The rubber band should be replaced periodically, ideally after each season. The material of elastic becomes wear out, gets older and loses its properties. In case of change of the inner vessel, it is usually good or needs to replace hop-up rubber bands. Hop-up room This relatively important part connects gearbox to the barrel and connects the feeder of balls from the magazine. For some weapons it is possible to keep the original room, even in case of major upgrade. From our experience it is a better option than the risk of untested products from other brands where it is not guaranteed compatibility, which can lead to insoluble problems. In most recent veal, the exchange of chambers is carried out in the type M16/M4 of weapons, for which the original plastic chamber for metal (alloy casts and CNC workpieces of duralumine) can be replaced. it is possible to lean the front part of the gearbox through the chamber, slowing down the risk of a possible breakage. This already standard treatment has therefore also prevented rebouncing of the chamber during firing and much more stable performance. In our improved Custom series have proven room of the brand SHS. Often exchange of rooms is carried out on weapon types AK. But it is not as simple an operation as the series of model M16/M4, but is still less problematic than in other airsoft replicas. With exchange of room you obtain, but also much more to lose. Motor Engine is actually the main driving force of any airsoft electric pistol. For this reason, the AEG rifles do not need to cock and for each shot you can just pull the trigger on the semi or full auto mode with relatively high cadence. These DC electric motors use the most common NiCd and NiMH rechargeable batteries of different capacities with voltage 7.2V - 12V and or the modern Li-Pol battery with 7.4V - 11.1V. It will run the engine and the torque can be transferred from sprocket to axle to further gears in the gearbox. The motor axis is divided into types with O shape where the pinion is usually pressed and D shape where the pinion is secured by the small bolt for imbus. Engines are divided into three types according to the length of the axle and then according to their parameters for base, high speed, hight-torque, extremely strong, etc. Among some people is widespread the wrong idea that the longer engine is more powerful than short. Logically, this is not true, because the difference is only in length themselves axis. The correct choice of engine length depends on the type of gun and the choice of parameters for the final configuration of the entire internal assembly and the use of Cut lever Cut lever is the other a small piece in the gearbox that basically does not wear out and tear due to the power of spring. The base cut lever is a metal part that is used for lifting/disconnecting the rider's contacts. Correct function isonce per rotation of piston acceleration in case the fire mode is at semi. If someone would rather photograph by semi mode, then we recommend installing a steel cut of the lever and modifying the trigger slider, which is achieved by amplification. Otherwise, it could be that the semi mode will stop working because the cut off level and contacts rider will wear, so they lose the necessary function. To fix it you need to buy this little piece along with contacts and semi re-tune, which is a very time consuming job. Plate It is a flat plastic piece on the outside of the gearbox and is determined for transferring movements from the switch from recording mode to the above cut lever. This piece is not overly emphasized and replacement is unusual. For each type of gearbox is usually with specific shape and length of the selector plate. Gearbox Replacing gearbox is probably the most complicated maintenance procedures for AEG. It is in fact the main box to which all necessary components must gradually be rearranged or inserted to ensure the proper functioning of AEG weapons. The standard gearbox is indicated by number or in the name of the type of gun in terms of extension or less specific shape. Each gearbox has different dimensions and uses specific parts. 99% of the

gearboxes are made of metal and mostly of ZnAl alloy or the stronger ones are made from the machined aluminum aircraft made by CNC machines. Some types of gearbox can be with stronger feathers more resistant than others, this is caused by the amount of material in front of the most exposed part. The decision on replacing the gearbox is one of those essential for a high upgrade of weapons. Possibility about the availability of quality and durable gearbox should be taken into account, even to be the first choice of weapon. Some weapons that will allow the construction are already equipped with durable gearbox that can provide stronger feathers, but unfortunately for most weapons this is not true. The availability of high quality replacement is sometimes essential parameter for a good choice of weapon upgrade. Barrel The decision on swapping the barrel for a more accurate barrel, should be one of the fundamental aspects of any upgrade of AEG. There are many types of barrels offered on the market, in internal diameter (6.01 to 6.04 mm), length (110-650 mm), material used, finish and final price. When deciding which barrel to choose, do not take into account only inner diameter and the lowest price, as this is absolutely not the right way to success. If you want an unparalleled quality, we can give you the variant on the market and it is stainless barrel, from the well-known Japanese brand PDI. The smaller inner diameter of the vessel always logically increases the requirements for the quality of the bb. It is common that while using bad (usually the cheapest) bb often clogs and blocks the barrel and sometimes destroys other parts in the gun. That's why we always recommend using high-quality and proven balls of BLS, because that gives us the best long-term experience in the smallest diameter of the barrels. The effect of the precision vessel can be seen on the following image showing that from the base barrel the ball can be fired with high deviation from the axis of the barrel, but with precision barrel the deviation is minimized. There is no doubt that the effect of the precision vessel on the accuracy of the fire is higher for shorter barrels than the longer ones (400 mm or more). The reason is that in the short barrel the bullet has no ability to stabilize its direction as well as in the longer barrel. Please note that each barrel must be cleaned regularly, otherwise it will not help with accuracy, materials used, even the best ammunition. Does it make sense to install a longer inner vessel? More and more often we meet the customer's requirements for the installation of a longer inner vessel. Maybe it's about visual appearance, because someone can be like a shorter carbine equipped with a silencer over long rifle in a factory design. Longer inner barrel means higher accuracy and longer track to speed the ball up, so will improve to the better shooting properties of the weapons. The barrel you expand by extra damper, external adapter or it is possible to use free space in the compensator. In the first two cases, enlargement is not a problem. But in the second variant you need to know how the barrel is mounted in the front part. Because it is sometimes necessary to drill a larger hole in the flash rider and then it can have the barrel inserted by Another problem of expansion is mainly based on the capacity of the air that cylinder is able to deliver to the barrel. In case the capacity of the elementary cylinder is not enough to fire bb out of the barrel, then the bbs will be slowed by walls of the barrel. In a better case it will only reduce the muzzle speed of bb, but in the worst case, the car shooting will be very unstable and bad. So if you are considering extending the barrel, then always advance to determine what type of barrel is used in guns with the same cylinders as in yours. The capacity of the cylinder determines the location and number of holes in his body. For Bore Up sets, it's also inside diameter. Batteries For a long time is in the minds of airsoft players who are the best for high current pulling (which the AEG also requires) are the only ones based on NiCd NiCd But the development of NiMH batteries is advanced and on the market there are high quality NiMH batteries that make the classic NiCD easy to overcome. In recent years, it is clear that NiCd technology is outdated and will eventually disappear completely. In the AEG weapons used DC engines are usually powered by aforementioned NiCd/NiMH rechargeable batteries with voltage 7.2V - 12V or in modern Li-Pol versions 7, 4V - 11.1V. Each type of battery has its pros and cons, so the suitability is different. Choosing batteries depends on both the configuration of the entire assembly and how you are limited by the interior space you need for the battery. The fixed-stock rifle usually has more storage space than, for example, AK with folding shoulder stock. Even today, you can still find people who solve the external storage of batteries. Today we have many types of battery variants and of this reason this solution by our opinion is unnecessary, visually ugly, impractical and even dangerous. We will try to summarize the essential characteristics of different types of rechargeable batteries briefly. Precise and detailed recommendations have been set out in an entirely new article, which is already underway. NiCd - no advantages / many disadvantages ... it was simple:) NiMH - high capacity, low internal resistance, mechanically durable, easy to clean, friendly to the gun/poor ratio of weight versus capacity versus size compared to Li-Pol, With use of strong feathers is unusable capacity of cells, high self discharge Li-Pol - effectively 100% usable capacity, even with strong feathers, very low interal resistance, cost, no self-discharge / low mechanical durable, demanding for care, very prone to damage due to overcharging and undercharging, increased wear of the engine and load of weapons In the supply of our e-shop you will find a high range of batteries of different brands. Probably the most popular brand of batteries is VB Power which produces batteries of different shapes and parameters. They are very good cells with low internal resistance imported directly from the manufacturer at an unbeatable price. Finally two things to be aware of. 1) Keep in mind that too much battery power means high cadence that can prematurely wear out piston, gears in the gearbox or engine. Cadence of weapon must look healthy. text above. 2) The hunt for a high C for Li-Pol batteries for AEG rifles is stupid. For example, in various discussions you read, or get advice to buy a powerful Li-Pol with the largest discharge electric current (the number C). Practice means that the batteries with the high C, there is a more sparks between brushes of motor and commutator (if you have an electronic switcher with engine brake, then it multiplies twice). Engine therefore carries much more and the life span is considerably lower than you Battery with reasonable C. In addition, high C of battery causes a sharp spinning of gears and stretching spring, this will reduce the life of gears and piston. Therefore, it is always best to take sufficient type with regard to the assembly of parts in gun - so this does not mean too weak and not too strong battery. Finally When you upgrade your weapons always keep in your mind that each manufacturer designs their products for maximum durability with the basic components and especially with the basic feather (although about some Chinese brands we can legitimately make doubts about this). If you start installing the stronger feathers, then you should always count on a number of risks and potential costs that can bring damage from overloaded component. Lifetime of weapon with a high upgrade will always be lower than the weapon with the base spring. Sometimes it is better to install the spring with a level below weaker, but install a better cylinder set. In this case you get the same performance, but more saving components in the gearbox, engine and battery. Improving the performance of the airsoft rifles is equivalent to tuning a race car. If you want to ride at the top position or have very high performance, range and firepower, so it costs something for you and still can happen sometimes and you don't reach to finish. It is also important to respect and periodically maintain the basic rules of use. If you're an occasional shooter, be more interested in the life of your weapons than in high performance. Keep in mind that any home handyman can't have such experience and facilities as a professional and quality service that can get so many weapons with various complex repair or upgrade. Yes, it's even ours:). We hope this article has brought something new and a little help to you about better awareness of upgrading AEG and used parts. It is likely that we do not have enough to capture all aspects of the upgrade, so the article can additionally be added. In case you find the part that has not been sufficiently or clearly outlined, please contact us through the comments on this article or directly to email support@airsoftguns.cz where we will be happy to provide you with more information and recommendations on upgrading your specific weapons immediately. Tweet Tweet