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Reddit and its partners use cookies and similar technologies to provide you with a better experience. By accepting all cookies, you agree to our use of cookies to deliver and maintain our services and site, improve the quality of Reddit, personalize Reddit content and advertising, and measure the effectiveness of advertising. By rejecting non-essential cookies, Reddit may still use certain cookies to ensure the proper functionality of our platform. For more information, please see our Cookie Notice and our Privacy Policy. There are two main internal designs of the Daisy 880 and their variants. I will refer to these as the old style and new style. I will start with the most common problems and work to some of the more rare malfunctions. First you may want to watch my full dis assembly and reassembly video to get a view of the entire design from the inside out:New Style 880 Complete Dis assembly:New Style Complete Reassembly:Old Style Complete Dis-AssemblyOld Style Complete Re-AssemblyNew Style Parts ID Video Author Topic: 1980 Daisy 880 Teardown (Read 11663 times) This guide provides a thorough overview of the Daisy Powerline 880 air rifle, covering operation, maintenance, repair, and troubleshooting. It includes information on ammunition compatibility, safety procedures, and accessing online resources and support. Learn about different internal designs and how to address specific repair needs, such as seal repair. Downloadable manuals are also referenced:Safety Precautions and RulesThe Daisy Powerline 880, while a fun and popular air rifle, demands strict adherence to safety protocols to prevent accidents and injuries. Always treat the firearm as if it were loaded, even when visually confirming its not. Never point the gun at yourself or another person, regardless of whether you believe it to be unloaded. Maintain a safe shooting environment, free from obstructions and bystanders. Always ensure a clear backdrop is present before firing. Before each use, carefully inspect the rifle for any damage or malfunctions. If any issues are found, cease operation and contact Daisy customer support or a qualified gunsmith for assistance. Proper storage is crucial; unload the rifle and store it securely, away from children and unauthorized individuals. Never leave a loaded air rifle unattended. Use appropriate eye and face protection at all times while handling or firing the Daisy Powerline 880. Remember that even seemingly minor damage can compromise the rifles safety and functionality. Regular cleaning and maintenance, as detailed in the manual, are vital for maintaining the firearms safe operating condition. Failure to follow these safety rules can result in serious injury or death. Consult the complete manual for comprehensive safety guidelines and responsible firearm handling techniques. The information provided here is a summary and does not replace the full safety instructions.Operating Instructions Pumping and ShootingOperating the Daisy Powerline 880 involves a straightforward pumping mechanism and loading process. First, ensure the safety is engaged. To load the rifle, open the loading port located on the left side of the receiver. Insert either BBs or .177 caliber pellets into the magazine, following the capacity guidelines specified in the manual. Close the loading port securely. Next, pump the rifle the recommended number of times; the optimal number of pumps depends on the desired power level and the type of ammunition used. Generally, more pumps result in a higher velocity. Always pump smoothly and consistently to prevent damage to the internal components. Once pumped, carefully aim at your target, ensuring the area is clear and safe. Engage the trigger smoothly; avoid jerking the trigger, as this can affect accuracy. After firing, disengage the safety and check the rifle for any signs of malfunction. Remember to always practice responsible firearm handling and follow all safety regulations. Consult the complete manual for detailed instructions on pumping techniques, ammunition loading, and proper aiming and shooting procedures. Improper operation can lead to reduced accuracy, damage to the rifle, or even injury. The manual provides specific illustrations and instructions for safe and efficient operation.Ammunition Compatibility BBs and PelletsThe Daisy Powerline 880 is designed for versatility in ammunition, accepting both BBs and .177 caliber pellets. However, understanding the differences and choosing the appropriate ammunition is crucial for optimal performance and safety. Steel BBs are generally less expensive and readily available, offering decent accuracy at shorter ranges. They are ideal for casual target practice and plinking. However, their lighter weight results in lower velocity compared to pellets, especially at higher pump counts. .177 caliber pellets, on the other hand, are heavier and more aerodynamic, leading to greater accuracy, range, and power. Their heavier weight makes them more suitable for hunting small game (where legally permissible) and longer-range target shooting. Using the wrong ammunition type can negatively affect the rifles performance and potentially damage the barrel. Always check the rifles manual for the recommended weight and type of BBs and pellets, ensuring they are compatible with the rifles design. The use of inappropriate ammunition can lead to reduced accuracy, decreased velocity, and even damage to the internal mechanics of the air rifle. Always prioritize the use of high-quality ammunition from reputable manufacturers to ensure consistent performance and safety. Consult the complete manual for a detailed description of recommended ammunition specifications and potential issues with incompatible rounds.Maintenance and Cleaning ProceduresRegular maintenance is essential for ensuring the longevity and optimal performance of your Daisy Powerline 880 air rifle. After each use, inspect the rifle for any visible damage or debris. Pay close attention to the barrel, ensuring its free from obstructions. A simple cleaning patch, slightly dampened with a suitable gun cleaning solvent (following the manufacturers instructions), can effectively remove any lead residue from pellet use. Avoid harsh chemicals or abrasive materials that could damage the barrels rifling. For BB use, a dry patch is usually sufficient. Periodically, disassemble the rifle (refer to the owners manual for detailed instructions) to clean internal components. Use a soft brush and compressed air to remove dust and debris from the pump mechanism and other internal parts. Lubricate moving parts with a light gun oil, ensuring that oil doesnt enter the barrel. Inspect seals for wear and tear, replacing them as necessary. Storage is also critical for maintaining the rifles condition. Store it in a dry, cool place away from direct sunlight and moisture to prevent rust and corrosion. Regularly check the pump for any signs of leakage, and address any issues promptly. Following these maintenance procedures will help keep your Daisy Powerline 880 functioning optimally and extend its lifespan.Troubleshooting Common IssuesThe Daisy Powerline 880, while robust, can occasionally experience minor issues. One common problem is inconsistent velocity. This might stem from insufficient pumping, a leaky pump seal, or a dirty barrel. Always ensure you pump the rifle the recommended number of times and check for any leaks around the pump. Clean the barrel thoroughly if pellet or BB residue is suspected. Another potential problem is jamming. This usually occurs due to improperly loaded ammunition or debris in the barrel. Carefully inspect the magazine for any obstructions and clear any blockages in the barrel using a cleaning rod. If the trigger fails to function correctly, check for obstructions or damage to the trigger mechanism. Consult the owners manual for detailed diagrams and instructions on disassembling and cleaning the trigger assembly; Remember, never attempt repairs beyond your skill level. If you encounter persistent issues or are uncomfortable performing repairs, contact Daisy customer support or a qualified gunsmith. Remember safety is paramount; always unload the rifle before attempting any troubleshooting or cleaning. Addressing these issues promptly will help ensure continued safe and reliable operation of your Daisy Powerline 880 air rifle.Parts and Components IdentificationFamiliarizing yourself with the Daisy Powerline 880s components is crucial for maintenance and repair. The rifles main body houses the pump, which compresses air to propel the projectile. The barrel, typically rifled steel, imparts spin to the BBs or pellets for accuracy. The receiver is the central housing where the barrel and trigger mechanism are located. The trigger assembly includes the trigger itself, the sear, and the hammer, responsible for releasing the compressed air. The magazine holds the BBs or pellets, feeding them into the barrel. A loading port is usually present to facilitate magazine loading. The stock, typically made of wood or synthetic material, provides a comfortable grip and support for aiming. Some models include sights, either open sights (front and rear) or a scope rail for mounting an optical sight. An important component, often overlooked, is the pump seal. This seal prevents air leakage during pumping, essential for maintaining consistent velocity. Understanding the function of each part allows for more effective troubleshooting and maintenance. Referring to a detailed diagram in the owners manual will help identify specific parts and their locations within the rifle. Proper identification is a prerequisite for successful repair and maintenance.Repairing the Daisy Powerline 880Repairing a Daisy Powerline 880 often involves addressing common issues like seal replacement or trigger malfunctions. Before attempting any repair, always ensure the air rifle is unloaded and the safety is engaged. Consult the owners manual for detailed instructions and diagrams. Simple repairs, such as replacing the pump seal, might require only basic tools and a replacement seal. More complex repairs, such as fixing a broken trigger mechanism, may require more advanced skills and tools, and possibly specialized parts. If you lack experience or confidence in your repair skills, its best to seek assistance from a qualified gunsmith or contact Daisy customer support. Online resources, including forums and videos, can provide valuable guidance, but always prioritize safety. Improper repairs can lead to malfunction or even injury. Remember to source replacement parts from reputable suppliers to ensure compatibility and quality. Taking careful notes during disassembly will aid in reassembly. Cleanliness is vital during the repair process to prevent dust or debris from interfering with the rifles operation. Patience and methodical work are key to a successful repair. Always test the repaired air rifle in a safe environment before using it for target practice.Addressing Specific Repair Needs (e.g., Seal Repair)One common repair for the Daisy Powerline 880 involves replacing the pump seals. These seals can wear out over time, leading to air leaks and reduced power. To replace the pump seals, youll need a replacement seal kit (often available online or from Daisy customer support) and some basic tools like screwdrivers and possibly a small wrench. Begin by carefully disassembling the pump assembly following the instructions in the owners manual or a repair guide. Take photos or make detailed notes as you disassemble the parts to aid in reassembly. Once the old seals are removed, clean the area thoroughly to remove any debris. Install the new seals, ensuring they are properly seated. Carefully reassemble the pump, following the disassembly steps in reverse order. After reassembly, test for air leaks by pumping the rifle and checking for any escaping air. If leaks persist, re-examine the seal installation or consult additional repair resources. Remember, working on airguns requires care and attention to detail. Incorrect installation can lead to further damage or injury. If you are unsure about any step, its always advisable to seek professional help from a qualified gunsmith.Understanding Different Internal Designs (Old vs. New)The Daisy Powerline 880 has seen variations in its internal design over the years, broadly categorized as old style and new style. These differences primarily affect the pump mechanism and internal components. The older models often feature simpler designs with fewer parts, potentially making repairs easier for some users familiar with basic mechanics. However, these older designs may have less robust components which are more susceptible to wear and tear. Newer models usually incorporate refined designs, often with improved seals and mechanisms for increased durability and efficiency. These refinements can result in better air retention and potentially higher velocity. Identifying the specific internal design of your 880 is crucial for accurate repair and maintenance. Visual inspection and referencing online resources showing exploded diagrams of both old and new models can help determine the variation of your particular airgun. Understanding these differences allows you to source the correct parts and utilize appropriate repair techniques. The availability of parts might also vary between the older and newer designs, so its important to be aware of this when planning any repairs or upgrades.Accessing Online Resources and ManualsFinding comprehensive information and manuals for the Daisy Powerline 880 can significantly aid in understanding and maintaining your air rifle. Several online platforms offer valuable resources, including user manuals in PDF format, often downloadable free of charge. These manuals typically detail the rifles operation, safety precautions, maintenance, and troubleshooting. Websites dedicated to airguns and Daisy products often host these manuals, along with forums and communities where users share their experiences, tips, and advice on repairs and upgrades. Searching online using terms like Daisy Powerline 880 manual PDF can quickly yield results. Be cautious of unofficial sources and prioritize reputable websites and forums to ensure the accuracy and reliability of the information. Additionally, exploring auction sites and online marketplaces might uncover original print manuals or copies. Remember that accessing official documentation directly from Daisys website (if available) ensures authenticity and provides the most accurate information for your specific model. Utilizing a combination of online resources and user communities can provide a holistic understanding of your Daisy Powerline 880.Contacting Daisy Customer SupportIf you encounter difficulties with your Daisy Powerline 880 that cannot be resolved through online resources or self-repair, contacting Daisys customer support is crucial. Their expertise can provide valuable assistance with troubleshooting, parts identification, and repair guidance. Check the Daisy website for their official contact information, which may include a phone number, email address, or a dedicated online contact form. When contacting them, clearly state your issue, providing as much detail as possible, including your rifles model number, the problem you are experiencing, and any steps you have already taken to address it. Having your serial number readily available can also expedite the process. Daisys customer support may be able to provide schematics, detailed manuals, or direct you to authorized repair centers if necessary. Be prepared for potential wait times, especially during peak periods. Polite and clear communication is essential for effective interaction. Documenting your interactions with customer support, including dates, times, and the names of representatives, can be helpful in case further assistance is needed. Remember to explore the Daisy website thoroughly before contacting them, as many common questions might be addressed in their FAQs or online help sections. Hello Daisy Powerline 880 owner and other DaisyTalk users. I made a few experiences that I would like to share. Hopefully it will help other people. Unfortunately I can not post this somewhere else, so excuse me that I dont have any actual questions :) Disclaimer First, most of this information comes from numerous emails to and from Daisy support, the gunsmiths I was referred to by Daisy as well as my own experience and some other sources like some posts here. Please note that I will give you this information to the best of my knowledge but I can not guarantee it will be 100% correct, nor that it will be suitable for your Daisy.Also note thatAirguns can be dangerous.Readand follow theDaisy safety guidelines. Do not take thegun apart if you are not confident you can assemble it correctly. Do not usefaultyguns. And NEVER ever point your gun at something you do not want to destroy. Also inform yourself about your local laws before using/modifying your airguns. II) General Information There were several lines of Daisy Powerline 880 produced:- unknown : Metal receiver. No diamond painted on the plastic front stock under the barrel- 1970 - 1972: Metal receiver:Diamond painted on. -1972 - 1993: Metal receiver:Diamond painted on. -1993 - now : Plastic receiver. Diamond painted on. The first edition up until 1993 with the metal cast may have slight differences in the internal design, however I believe the parts are all compatible. The schematic from Daisy "880old +.pdf" is marked "metal receiver". For these Daisy does not offer repairs nor do they have parts. About the new edition that is still sold with the plastic cast I do not know much about. The schematic from Daisy "880.pdf" is marked "plastic receiver". Maybe some internal parts are compatible with the older ones, maybe not. But I think this is more or less a mute point anyway, not only should Daisy still have parts for those and do repairs, but the price is so low that many will just buy a new one for the same \$8 that spare parts would cost. III) Contact Information - Daisy customer support (see www.daisy.com) - Can help identifying when the gun was built (by LOT NR, should be on the barrel). Has the manual as PDF on the webpage. Will send schematics if you ask for them- Excellent support, quick response time, very helpful.- DOES NOT REPAIR OR HAVE PARTS FOR THE OLD (PRE 1993) MODEL(S) ANYMORE - JG Airguns (see) - Gun can be sent in and repaired.- Does have virtually all parts for the Daisy 880 and many other airguns (you can browse for them in the webshop)- also excellent, quick responding and very helpful support- orders can be sent outside the US- accepts payment (not limited to) over CC and PayPal- note: the webshop is not perfect. Many parts are listed heavier then they are, which may result in unnecessary shipping costs. This may be fixed by hand (Quote: "we reserve the right to adjust the shipping charges or method of shipment if the incorrect method of shipping is chosen, the amount is insufficient, or if another method of shipping is less expensive or more convenient.")You will however at first have to pay what the webshop will tell you even if it is with the higher shipping cost and I do not know how you will get the money back if you paid more for shipping then necessary. - Larry Behling (Phoenix, New York) - contact over email (rte6liary(at)alltel.net)- also has spare parts- apparently focuses on repairing/replacing parts/guns i.e. you need to send in your part/gun first- does not accept paypal or CCs IV) DE- and REASSEMBLING AND CARE PHOTOS HERE. Quite easy.a) Lay the gun on its side so the barrel/muzzle is to your left and under the first 2 screws from the LEFTb) turn the gun around (keep the muzzle on your left) and again undo the first 2 screws from the left.c) The plastic under the barrel should now be removable if you pull it toward the muzzle.d) not necessary but if you want you can pull the barrel to the left and remove it as well. Note that the real barrel is under there.e) The (1st on your left) hinge of the pump lever can now be pulled out which will allow you to pull the piston out of the pump.pasing. To reassemble just trace your steps backward. f) Here is a picture of pump head assembly for your references. Excuse the had picture quality. Note the foam piece is missing. 2) De/Reassembly of the main part:a) remove all the parts as described above under 1a-e b) Now remove all the remaining screws. Note nothing will jump in your face if you do. c) You will (probably) need to apply some force to get one of the sides let us start with the one with the plastic door) off the rest. d) Now turn everything around and take the other side off. e) you can get the cocking lever / magnetic tip out now (for example to remagnetize or clean or replace) f) You should be able to pull the stock to the right and lay it to the side now. g) You should be left with the barrel, trigger assemble and the case with the pump tube, in this case is a pin that if you remove it will let you remove the pump tube, trigger assembly and get to the chamber valve. BEFORE YOU REMOVE THE PUMP TUBE REMEMBER ITS ORIENTATION FOR LATER h) if you removed the pump tube you can remove the chamber valve i) if you removed the trigger assembly you can see a screw, this is optional: remove that screw to get the barrel free. under the barrel is some rubber and over it a metal cover keeping it in place. j)now what is left is the trigger assembly - and the hardest part to put back together. there are two pins visible at the side. I recommend you do not pull them out, especially the hinge at the trigger itself. it will be a bitch to put back in! you can see the valve screwed in the assembly. if you want to replace that you may need to pull one of the pins, luckily you can leave the trigger hinge alone. REMEMBER WHERE YOU TOOK SOMETHING AWAY. You will need to push some parts together and/or in the right direction so you can push the pin through the holes. All seals need to be oiled before putting them back in. Only use the recommended oils (see under 5 for more info).3) Airpressure problems / general overhaul:With only airpressure problems or just to do a general overhaul following parts have been recommended to me by JG Airguns (Quote: "...will list all the part numbers of the parts I would replace if the gun was sent here for repair."):- DA1880-133081Elastomer buffer - DA1880CS1Chamber Seal (check valve)- DA1880AOZ0-Ring(NOTE: needed 2x)- DA180FO0Foam wiper- DA1717-22ValveNOTE:- The names are according to the JG Airgun webshop, NOT the Daisy schematic- This list is for the older (pre 1993) model- The items will cost ~27USD (03/2009) and allow, barely, for the cheaper but uninsured shipping. 4) Cleaning the inside of the barrel:1. I wanted to buy me a cleaning rod with brushes when I found a very helpful webpage about this topic.Link: www.nealjguns.com/pdf/catalog/AirGunCl.pdf In short and my own words:- get a common fishing line more than twice the length of the barrel and knot it into a loop- feed the fishing line loop through the barrel (you may need some wire with a small hook at the end to pull it through)- attach a string/fishing line longer than the barrel to the loop at the loading port. - I then used cotton pads cut in pieces (and isopropyl alcohol). Put one in the loop at the loading port and pull at the muzzle at your loop until the cotton pad traveled all the way down and outside the barrel. Throw it away. Pull the loop back with the string/fishing line. Repeat until the pads exiting at the muzzle are clean.- Pull a few dry ones through. Your done.Notes: You may use other cleaning agents then isopropyl alcohol (MSI-301). I would have if I had any. Also try to remove the muzzle so that the excess cleaning agent will run down the barrel, not inside the gun. 5) Other things to consider. - DO NOT USE WD40 INSIDE THIS (AND OTHER) AIR GUN(S)- DO NOT USE AEROSOL LUBRICANT INSIDE THIS (AND OTHER) AIR GUN(S)- DO NOT USE PETROLEUM BASED OILS/CLEANING AGENTS INSIDE THIS (AND OTHER) AIR GUN(S)- DO NOT USE (WEAPONS) VASELIN INSIDE THIS (AND OTHER) AIR GUN(S)- DO NOT USE BALISTOL (COMMON FIREARMS GUN OIL) INSIDE THIS (AND OTHER) AIR GUN(S) - TSI-301 HAS BEEN RECOMMENDED (NealJguns)- CROSMAN PELLGUN OIL HAS BEEN RECOMMENDED (JG Airguns) - Daisy recommends 10-, 20- or 30-weight non-detergent, automotive motor oil (see manual for more info)- I USED TO USE Choji oil. This non-detergent oil is especially made for sword care. It smells like cloves (but please do not buy common clove oil, it is NOT the same, even if sometimes choji oil is referred to as clove oil). It doesnt burn, doesnt get bad or gunk up, prohibits oxidation and should not attack the seals. In my opinion it is safe, but use at your own risk. (EDIT: Now I am using Crosman Pellgun oil) V) My Daisy Powerline 880 1) History:It was build in 1971, old model, metal receiver, sold in Germany by Umarex. It has been in my family since then and I recently inherited it. Unfortunately my grandfather didnt take good care of it so I have been working on getting information and getting it back to top performance, as well as a good look. 2) What was wrong with it:- Very dirty, probably used wrong oil that gunked up and hasnt been used for years.- Finnish was damaged, especially on the barrel where the information is stamped in.- Missing the foam wiper on the piston that compresses the air when pumping.- Missing rearstight height adjuster.- Leaked air when pumped up through the barrel (loading port) when closed through the muzzle) = release valve damaged? NOTE: The 880 needs to be cocked to build up pressure. If it is not the air will rush out while pumping and no pressure is building up. 3) What has been done so far:- Cleaning:After deassembly of the pump mechanism I cleaned everything I could reach with isopropyl alcohol to remove oil, dirt and gunk.The barrel has been cleaned as well (see above how, you do not need much to do it) - Refinishish/Revarnish:Note: to my knowledge the metal parts are not artificially oxidized (burnished?) to get the very dark blue (ALMOST black) finish but are varnished.- The pump mechanism was still deassembled and the barrel removed.- I then removed all screws. Be careful now that the gun doesnt fall apart completely, but it wont jump in your face either.- First: I took care of all places with sandpaper (pretty fine one) where the varnish came apart and rust was showing.- Again everything was cleaned with isopropyl alcohol.- The stock was wrapped in newspaper and every big or small hole where aerosol varnish could enter the gun was either taped over with easy to remove papertape or stuffed with newspaper.- I then applied aerosol varnish (black not dark blue), the "outer" barrel was sprayed separately.- After the varnish dried I reassembled the parts. Looks very good, the stamped in info (model nr, lot nr, pat nrs etc) is very good readable. Only where the old varnish was not sprayed over can you see a small difference between black and blue.I used car varnish, but feel free to use other kinds/colors if you want to. - Cleaning 2) I just (was bored) disassembled the main body of the gun. It isnt really hard, nor is it hard to put back together. Just remember where this part came from and dont let it lie around as single parts until you forgot everything. It is hard though to describe it. Think the gunk was bad before? This was worse. Worse like 10-20x worse. Cleaned with isopropyl alcohol (and lots and lots of qtips). - Missing Part: Backstight height adjuster:Daisy sent me the backstight height adjuster for free! Awesome! It arrived a few days later, made from plastic, not metal (what I would have loved even more).Ive asked my metal guy if he could rebuild it but apparently it is too small and he doesnt have the machines for it - Refinishish/Revarnish 2) disassembled the whole gun, cleaned every metal part with isopropyl alcohol, used fine sanding paper to remove the small imperfections from the 1st varnish and revarnished everything. Indeed very much easier when everything is disassembled.I let it dry 24hrs, wrapped everything in newspaper and waited for the replacement parts before reassembling. Only do that if you are very confident not to get confused where the parts came from :) - Spare parts (see above for a list)Have been ordered from JG Airguns. They have been shipped, waiting for them to arrive...And they did, today. Aprox 10 days after the order, 7 days after shipping and one day after revarnishing. Perfect timing.Replaced the missing foam ring, replaced the valve and the seals. I could not get the old elastomer buffer out so I couldnt replace it. Luckily it isnt a big deal.While I was at it, I remagnetized the magnetizing tip.Gun in perfect working order now! In short:- it is cleaner now- no more rust - rear sight height adjuster replaced- perfect working order now 4) What still is wrong with it:- NOTHING! :D 5) The future:I still might buy some (walnut tree) wood on eBay and try to replicate the really cheep looking plastic pieces with it. If I ever get started on that and finish it I will make shure to document it and post pictures! :)Unfortunately this is as of yet no very likely. First I need to figure out a way to get a metal connection between the wooden stock and the gun. Making the connection from wood to metal will not feel confident that it will not break especially on sheer forces since the material would need to be quite thin. Very well, I guess thats it for now. I hope this will help other people with their Daisy 880. And I know there are better guns out there and the work or bucks invested might even be more than a new 880 is worth but this one got sentimental value for me (belonged to 2 people in my family who passed on.) Also note that even if that is the case I do not have the budget to do get real expensive stock wood and/or let some professional stock macker redo the parts. I couldnt even afford to send it to a repairshop. Besides, I'm learning new things and it is fun! Hope that helpsCwtiwesel 1st edit: added info,restructured the information and changed the subject (former) Powerline 880- Repair experiences "2nd edit: added more info3rd edit: added pictures4th edit: added info, removed some, added more pictures. I will add info/edit this post when I get new information concerning the wooden stock. But the rest is done

Daisy powerline 880 luchtbuks. Daisy powerline 35 luchtbuks. Daisy powerline 880 maintenance. Daisy powerline 880s recenze.