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Ninja professional blender 1500 power light blinking

Notes: Proceed carefully and as you go, put the parts associated with each step in a separate container. An egg carton, muffin tin or plastic compartmentalized box works well. The Ninja is well built, but you may still break things if you are not very careful. At no point should you need to force parts apart or together. If it's not working look it over and figure out why. Most problems reported with Ninja Blenders are of the "Flashing power indicator" variety. This is usually due to assembling the blender bowl to the base incorrectly. All white arrows must line up after assembly, the lid must be closed and locked with the white arrows lined up. Not as obvious is that the bowl lid and the tall lid appear to be interchangeable, but they are not. You must use the lid which corresponds to the container you are using. Less common causes are a broken microswitch or microswitch linkage. These parts are shown in the steps below. It is also possible that the logic board is contaminated. The logic board can sometimes be rescued below. Step 1. Locate and remove five plastic self tapping screws. Then remove the base plate. Step 2. The base spacer will slip off. The power cord plug must be carefully worked through the large square hole at the back of the spacer. Step 3. The lower motor housing is held in place with 6 plastic self-tapping screws. There are also two screws holding the power cord strain relief. Remove them and carefully remove the lower motor housing. Step 4. Some of the wires are held together and away from moving parts with a zip tie. It will make things easier if you cut the zip tie, but remember how the wires are routed and be sure to replace the zip tie when reassembling the blender. Step 5. You are coming to the only step which might require a little force. You need to remove the rubber blender coupler from the upper motor housing. Each time you used the blender, it forced this connection a little tighter. To do this, keep the motor from turning by holding the cooling blades with a rag and turn the rubber coupling clockwise to loosen. Be careful the fan blades are sharp and easily bent. If the gears are stripped, try to mess with the motor and the coupling until you can get them to jam enough to allow you to remove the coupling. As bad as the gears on my unit were, I was still able to remove the coupling this way. Turn the blender coupling clockwise to loosen. These are left-handed threads so that the coupler does not come loose during use of the blender. This coupling tightens every time the blender is used, so during reassembly, you may want to use an anti-seize compound on the threads to make disassembly easier if you ever do it again. Step 6. Under the coupling are 3 washers, two are metal and one is fiber. Remember to put the fiber washer on first during re-assembly. Step 7. To remove the motor unit from the upper motor housing, you will first need to remove 4 screws from the circuit board. This will allow you to gain access to one of the three screws holding the motor assembly (including the planetary gear box) to the upper motor housing. Now remove the 3 screws holding the motor assembly to the upper motor housing. If the blender is malfunctioning because of spills which have occurred on the circuit board, you may clean it carefully with distilled water and cotton applicator sticks. Rinse with denatured 75% ethyl alcohol to aid drying and set aside for a day to allow complete drying of the board before attempting to use the blender again. The blurry picture above attempts to show two of the screws holding the motor assembly to the upper motor housing. There are 3 screws and large washers to remove. The rubber grommets will remain in the motor assembly and do not need to be removed. Step 8. As you carefully lift the motor assembly free of the upper motor housing, the safety interlock linkages and springs may drop out of the upper motor housing. Don't lose them. The picture illustrates how they should be placed during reassembly. The tabs indicated will need to fit into corresponding slots on the motor assembly during reassembly. Step 9. You will see six small screws holding the planetary gear box to the top of the motor assembly. Remove the six screws and pull the gear box free of the motor assembly. There should be lots of white lithium grease inside the transmission, and if it is like mine, there will be many broken gear teeth. This illustration also shows the slot that the safety interlock tabs insert into. Step 10. The planetary gear holder can be removed from the transmission by pushing it from the side where the blender coupling was attached. Do not lose the small metal washer which bears against the bronze bushing in the gear box housing. The planet gear carrier is riveted together and is not supposed to be serviceable, but it can be repaired as follows. A. Carefully drill off the tops of the rivets holding the planet gears in the carrier. Be careful that you do not enlarge the holes on the cover. Be careful to not remove too much of the rivet, there is a shoulder on the rivet which holds the cover away from the gears; it must remain. The cover will come off and the gears can now be removed. Note the missing teeth on the planet gears. The sun and ring gears were in good shape though. I could not find exact replacement gears for these, but I did find some which could be modified to serve as replacements. B. There are sites which will help you search for gears. Using the following parameters I was able to locate replacements which only needed part of the hub removed. These original metric gears have a bore diameter of 6 mm. The gear has a total diameter of about 20 mm, a face width of 10 mm and 18 teeth around the gear. Using this information I found a gear I could use at Stock Drive Products. The gear I found had an extended hub, which I could cut off, and a face width of 9 mm. This was close enough since I could leave 1 mm of the hub I would cut off to make up the difference. Here are pictures of the original gear, the unmodified gears I purchased and the modified gears as used in the repair. The part number of the gear is A 1M 2MYZ10018. The picture on the top shows the original gears (what was left of them) and the gears I purchased. The picture on the bottom shows the original gears, the hubs I cut from the new gears, and the new modified gears. C. After removing the original gears from the planet carrier, I drilled the rivets further using a smaller diameter bit, so I could make them hollow to allow for repair. After placing the modified gears into the planet carrier, with the 1 mm hub inward to allow the sun gear (the one on the motor) to have as much purchase on these narrower gears as possible. I replaced the plane cover and used new screws to replace the top of the rivets which had been previously removed. You could tap the rivets and screw these new screws in, or use a press fit secured with epoxy. D. Place the reassembled planetary transmission on a flat surface to ensure that the screw heads do not protrude out of the gear box. If they do, you may need to grind the heads down a bit. If you use pan-head screws, this will probably not be a problem. E. Use a liberal amount of white lithium grease to lubricate the transmission and re-attach the transmission to the motor assembly using the six small screws removed earlier. Step 10. Reassemble the Ninja blender is the reverse of the dis-assembly process. Take care to line up the tabs on the safety interlocks with the slots in the motor housing. Be sure to secure the loose wires with a new zip tie. Do not overtighten any of these plastic self tapping screws since the holes they go in are easily stripped. Use a weak thread sealant (Locite 425) or even fingernail polish on the screws securing the circuit board to prevent vibration from loosening the screws. During reassembly, I somehow managed to break the lever off one of the micro switches but thanks to super glue, I was able to repair it. These micro switches may be the cause of the often reported power light blinking error, if either of the micro switches or the micro switch linkages are not working correctly the power light will blink. This could also indicate a bad logic board. If necessary, these micro switches could be replaced. They appear to be a standard part which could be ordered from Jameco Electronics, DigiKey Corporation or Mouser Electronics. The Ninja blender is slightly unique in having a safety interlock system, probably because of its high power and extremely sharp and accessible blades. Do not disable the safety interlock system, except possibly temporarily while trouble-shooting the blinking power light problem. One of the most common reasons for the power light to continue blinking is improper use of the blender, such as using the bowl lid on the tall mixer container, not lining up the arrows when putting on the lids, or not properly seating the containers on the blender. I chopped ice on the first run, after giving the blender a pulse while it was empty. Voila! It works perfectly and grumbles and growls like the beast it is.

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