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What are the parts of a lockstitch sewing machine

Without the sewing machine, the world would be a very different place. Like the automobile, the cotton gin and countless other innovations from the past 300 years, the sewing machine takes something time-consuming and laborious and makes it fast and easy. With the invention of the mechanized sewing machine, manufacturers could suddenly produce piles of high-quality clothing at minimal expense. Because of this technology, the vast majority of people in the world can now afford the sort of sturdy, finely-stitched clothes that were a luxury only 200 years ago.In this article, we'll take look at the remarkable machine that makes all of this possible. As it turns out, the automated stitching mechanism at the heart of a sewing machine is incredibly simple, though the machinery that drives it is fairly elaborate, relying on an assembly of gears, pulleys and motors to function properly. When you get down to it, the sewing machine is among the most elegant and ingenious tools ever created.Sewing machines are something like cars: There are hundreds of models on the market, and they vary considerably in price and performance. At the low-end of the scale, there are conventional no-frills electric designs, ideal for occasional home use; at the high-end, there are sophisticated electronic machines that hook up to a computer. Textile companies have many machines to choose from, including streamlined models specifically designed to sew one particular product.But just like cars, most sewing machines are built around one basic idea. Where the heart of a car is the internal combustion engine, the heart of a sewing machine is the loop stitching system. The conventional electric sewing machine is a fascinating piece of engineering. If you were to take the outer casing off, you would see a mass of gears, cams, cranks and belts, all driven by a single electric motor. The exact configuration of these elements varies a good deal from machine to machine, but they all work on a similar idea. The diagram below shows a fairly standard lock-stitch design.This content is not compatible on this device.If the animation above isn't working, click here to get the Shockwave player.In this diagram, the electric motor is connected to a drive wheel by way of a drive belt. The drive wheel rotates the long upper drive shaft, which is connected to several different mechanical elements. The end of the shaft turns a crank, which pulls the needle bar up and down. The crank also moves the thread-tightening arm. Moving in synch with the needle bar, the tightening arm lowers to create enough slack for a loop to form underneath the fabric, then pulls up to tighten the loop after it is released from the shuttle hook.The thread runs from a spool on the top of the machine, through the tightening arm and through a tension disc assembly. By turning the disc assembly, the sewer can tighten the thread feeding into the needle. The tension must be tighter when sewing thinner fabric and looser when sewing thicker fabric.The first element along the shaft is a simple belt that turns a lower drive shaft. The end of the lower drive shaft is connected to a set of bevel gears that rotates the shuttle assembly. Since both are connected to the same drive shaft, the shuttle assembly and the needle assembly always move in unison.The lower drive shaft also moves linkages that operate the feed dog mechanism. One linkage slides the feed dog forward and backward with each cycle. At the same time, another linkage moves the feed dog up and down. The two linkages are synchronized so that the feed dog presses up against the fabric, shifts it forward, and then moves down to release the fabric. The feed dog then shifts backward before pressing up against the fabric again to repeat the cycle.The motor is controlled by a foot pedal, which lets the sewer vary the speed easily. The cool thing about this design is that everything is linked together, so when you press on the pedal, the motor speeds all of the processes up at the same rate. The process is always perfectly synchronized, no matter how fast the motor is turning.The sewing machine shown in the diagram can only produce a straight stitch -- a simple stitch that binds fabric with a straight seam. Most modern machines are a lot more flexible; they can produce a variety of stitches and, in some cases, can make complex designs. In the next section, we'll see how modern machines pull this off. Photo: ShutterstockIf you've dug out your sewing machine for some quarantine crafting, now is a terrible time to have to lug it to a repair shop if something goes wrong. Fortunately, a lot of the common sewing machine glitches are things you can fix yourself in just a few minutes.I love this checklist from the blog She's a Sewing Machine Mechanic; as a veteran crafter I can attest that I've run into several of these problems, and these suggestions often do work. Read through that list for more info, but here are the top takeaways: Adjust the thread and bobbin tensionIf the thread keeps bunching up or if the stitching just looks wrong, chances are something's too tight. A standard sewing machine uses two threads: one that unwinds from a spool on top of the machine and goes through the needle, and one that comes from a tiny spool underneath. When the machine is adjusted correctly, these two threads wrap around each other to create each stitch.If one of these threads is tighter than the other, it can pull the resulting stitch out of whack. For example, if the bottom of your fabric looks like one tight thread with a bunch of loose little loops running around it, either your bobbin thread is too tight or your top thread is too loose. So check both threads. Did you run the top thread through all the places it's supposed to go when you were threading the machine? Did you load the bobbin correctly? If those both seem okay, check the tension settings for both threads. The top thread will have a tension selector—often a knob on the front of the machine. The bobbin thread's tension is usually adjusted with a screw on the bobbin case (righty-tighty, lefty-loosey).Check your needleThe needle has to be straight, sharp (usually) and installed correctly if you want it to do its job. Check that it's not bent and replace it if you can't remember when you last changed it. One side of the needle is flat where you attach it to the machine; usually that side should be toward the back, but it depends on your machine. When in doubt, check the manual.Different fabrics require different needles, so make sure you're using the correct one. Machine needles come in different sizes, and some are sharp while others are ballpoint. It's hard to tell just from looking if you're not familiar, so check the package. If the machine keeps skipping stitches, there's a good chance you're using the wrong needle. Here's a guide to choosing the right one.Make sure the settings will allow you to sewIf the machine won't sew at all, you probably forgot to flip a switch somewhere. First, check the obvious things: is it turned on? Is the pedal connected? Is the presser foot down? If the machine hums and whirs but the needle doesn't move, you may have your bobbin winder turned on. This is a feature that lets the machine's motor wind a bobbin for you, and it deactivates the whole sewing apparatus while you do that. Look for a switch. On an older machine turn the wheel that's inside of the hand wheel on the side of the machine. If the needle moves but the fabric doesn't, check the feed dogs. These are the spiky bars underneath the needle that move to slide the fabric along as you sew it. There's a switch that turns them off, you may have hit it accidentally, so just turn it back on.Actually clean the darn thingThere are a few more things to check in the guide, but we've been through the big ones. One final thing to consider: If the machine is working more or less okay, but just acts a little weird sometimes, clean it! Open up the bobbin case and any other area that's reasonably accessible, brush out the lint and apply a few drops of machine oil as the manual instructs. This is mineral oil; it's not WD-40. If all else fails, you may eventually need to call up a repair shop or get really in-depth with YouTube sewing machine repair videos. But in most cases, a misbehaving machine will do its job just fine once you check that everything is set up correctly. what are the major parts of lockstitch sewing machine. what are the different parts of lockstitch sewing machine

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