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## Ibm selectric ii repair manual

Michael A. Covington I've owned a Selectric II typewriter since 1975 and still use it to type labels and forms. Although most of my writing has been done with my keen interest in fountain pens, I've taken up the cause of keeping alive one of the finest typewriters ever built. In fact, in 2009 I succumbed to the temptation to buy a second Selectric II, for use in my home office, and this one has all the features I really wanted the first time: dual pitch, 1.5-line spacing, and most importantly, correcting. Other middle-aged men waste money buying a car just like their first one; this is cheaper. Note: I do not sell or repair typewriters. Check advertisers and links on this page to find those who do. Contents: Introduction Useful links Why I like a Selectric How to ship a Selectric How to check out a used Selectric for proper operation Wrong characters print occasionally Keys stick down (don't come back up) after typing The IBM Selectric Typewriter, introduced in 1961, is one of the most important mechanical inventions of the Twentieth Century. It is, indeed, all mechanical; an electric motor is used only to turn one shaft, and its function can be taken over by a hand crank (and is, during repair procedures). It may be the last major invention that doesn't use any form of electrical control. This is the "golfball" typewriter, the one whose type is on an interchangeable element (ball) rather than on individual levers. A close imitation, the Sperry Remington SR-101, was made by by Remington the late 1970s after IBM's patent expired, and its type elements are interchangeable with IBM's. (The machine was reportedly unreliable, and the manufacturing arrangements fell apart in lawsuits.) Also, in the 1980s, GP Technologies (now out of business) made a wide variety of specialty type elements for Selectrics; in place of the IBM logo they have a round seal with "GP" in the middle of the lever. Contrary to what is widely thought, the Selectric did not originate as a computer terminal, and typing is not an electrically controlled process. But it is computational. Each key triggers a set of tabs representing a binary number, which is the input to a mechanical digital-to-analog converter which turns the type element to the right position. When computer terminals were later built using the Selectric mechanism, the keyboard and the rest of the typewriter had to be separated. The keyboard was replaced by a set of solenoids to play the role of the typewriter had to be ruggedized because a computer terminal undergoes much heavier use, with constant typing at high speed, than an office typewriters. Useful links: These links were correct when this page was created. This page was created. This page was created and the links will become out of date. Please use search engines to find current information. Typewriters.com, a major repairer and reseller of Selectric and other typewriters. (Hint: Their refurbished typewriters cost a good bit less if you are willing to pick them up in Decatur, Georgia, rather than having them shipped.) www.selectric.org: scans of instruction manuals and other information www.mortonsweb.com: Selectric repair manuals www.etypewriters.com/history.htm: history of IBM typewriters Wikipedia articles: IBM Selectric Typewriter, Courier (typeface), Prestige Elite (typeface), Prestige Elite (typeface), Letter Gothic (typeface), Letter Gothic (typeface), Prestige Elite (typeface), Prestige El it was like typing through a time warp — the letters were appearing on paper much more slowly than I was hitting keys, and by the end of the line, there was a quite noticeable delay. Because the daisywheel typewriter stores keystrokes, of course it never lost anything, but I also couldn't see, in real time, where letters would appear on paper. The inherent speed of the Selectric is more than 15 characters per second, and it has one keystroke of mechanical "stroke storage." That is, if you hit two keys very close together, the first one and the second one will both actuate, each in due time. This is accomplished by having each key release an "interposer," which is allowed to go down when the mechanism is ready for it. The interposer is the component with binary-coded tabs on it that I mentioned earlier. If more than two interposers go down at the same time, you have a slight risk of a jam, which can be cleared by pressing Mar Rel. But few typists are that clumsy. The force required by each Selectric key is about two ounces (30 g) to actuate it, and about half that to keep it down after it has actuated. That is more than most computer keyboards but less than other electric typewriters. The keyboard "touch" of the Selectric Composer and includes a lot of information also relevant to Selectric typewriters. Selectric typewriters. Selectric lineage: The main products in the Selectric model 71 and 72 (later called "Selectric I") rounded body. Each of these is fixed at either 10 or 12 pitch. Selectric II (with or without correcting feature), which may be 10 pitch, 12 pitch, or dual pitch. This is the most popular Selectric II (with or without correcting feature), which may be 10 pitch, 12 pitch, or dual pitch. This is the most popular Selectric II (with or without correcting feature), which may be 10 pitch, 12 pitch, or dual pitch. This is the most popular Selectric II (with or without correcting feature), which may be 10 pitch, 12 pitch, or dual pitch. This is the most popular Selectric II (with or without correcting feature), which may be 10 pitch, 12 pitch are included by the selectric II (with or without correcting feature). basically a small, slightly simplified Correcting Selectric III "bicycle" ribbon. Not to be confused with the Personal Wheelwriter, a daisywheel typewriter that came later. Selectric III family: These take 96-character type elements that have yellow lettering and almost always have "96" written on them. The move to 96 characters was prompted by the need for a larger character set on European typewriters. Many Selectric III, very similar to the Correcting Selectric III but redesigned. Various IBM Electronic Typewriters which take Selectric III, very similar to the Correcting Selectric III but redesigned. elements with proportional pitch. Others: IBM Selectric Composer, a proportional-pitch typesetting machine whose type elements are coded with yellow, red, or blue triangles. Various IBM computer terminals with Selectric System/2000 was used briefly in the 1980s for a family of letter-quality printers and typewriters including the Quietwriter. These do not use ball-shaped Selectric typewriter. You will occasionally see ads, particularly on Craigslist, where this has been misunderstood. "Selectric" is legitimately the name of some products that have nothing to do with typewriters, including a type of boat motor and a type of sawmill. The Selectric typewriters from early times well into the 1960s if not later. Back in the 1950s, they were remarkably ugly (looking like gray boulders) but performed well and were very popular. The IBM Executive Typewriter was a conventional (typebar) typewriter was a conventional pitch. Ads on eBay are often mistaken as to the exact features of the typewriter. A full-featured Selectric II or III (dual pitch) has six bright chrome levers coming up through the case, three at each end of the platen roller. Ribbon options: In the public eye, the Selectric typewriter was largely equated with the crisp black print of a carbon ribbons were an option for all three models for each on the crisp black print of a carbon ribbon, but that is actually a mistake. IBM and other brands of electric typewriters offered carbon ribbon, but that is actually a mistake. IBM and other brands of electric typewriters offered carbon ribbon, but that is actually a mistake. of Selectric. Even with a fabric ribbon, the Selectric produces clearer print than most fabric-ribbon it uses rather than guessing. The original Selectric typewriter and see what kind of ribbon in a cartridge. The Selectric II normally takes either of two kinds of ribbon cartridges, Correctable Film or Tech III (both fit on the same typewriters). The Correctable Film Ribbon (yellow or orange color-coded) gives a very sharp, carbon-ribbon-style image; the Tech III (blue color-coded, no longer made) is a thin fabric ribbon that gives near-carbon quality. Corresponding to each of these is a type of correction tape with the same color code, Lift-Off Tape or Cover-Up Tape. There is also a (carbon) cartridge ribbon for the Selectric Composer that will fit the Selectric Composer that will fit the Selectric Composer that will fit the Selectric U. It is color-coded green and produces very crisp, high-quality type, but does not "lift off." That means it can be used safely to type checks However, some Selectric IIs were made with the Selectric III, the situation is even more complex. The usual ribbon is a cartridge that works like that in the Selectric III take the Selectric III take the Selectric III. take the Selectric I fabric ribbon. Why were fabric ribbon, you can discover what has been typed by reading the letters off the used ribbon, because the carbon ribbon only makes one pass through the print head. Also, carbon-ribbon ink can be lifted off the paper (that's how the Corrections when typing was to use Ko-Rec-Type, a material like carbon paper, but white. You would hold a piece of Ko-Rec-Type between the typewriter mechanism and the paper, and restrike the incorrect letter, depositing white pigment on top of it. This worked with any kind of typewriter. The Correcting Selectric introduced lift-off tape, which would actually remove carbon-ribbon ink from paper. Soon afterward (when Sperry Remington came out with their Selectric clone that lacked the correcting feature), lift-off tape works well if you are typing on smooth paper. With cheap laser printer paper, a lift-off correction may take several tries. With Tech III ribbons you can't use lift-off tape. Instead, IBM made cover-up tape (color-coded blue like the ribbons), which worked like Ko-Rec-Type. It is no longer made but can still be obtained from some suppliers. As far as I can determine, current Brother typewriter lift-off and cover-up tape fit the Correcting Selectric: One option is to buy a reconditioned one, with warranty, from a refurbisher; several of them advertise on eBay and other places. The other option is to find a Selectric in used condition and then have it cleaned, lubricated, and repaired as needed. Ideally, you want an individual's personal typewriter rather than one that was used in an office. The reason is that office typewriters are often worn out. The Selectric was designed to last 8 years being used 8 hours a day every business day (about 16,000 hours of total use). An individual who was not a typist would typically use it a lot less. It is best to find one locally via Craigslist or by asking around, because it won't have to be shipped, and you can inspect it before making the purchase. Also, it may be very cheap, especially if you ask your network of friends whether anyone has a no-longer-needed typewriter in the closet. How to ship a Selectric: The best way to pack a Selectric for shipment is to fill plastic bags with expanding, hardening foam (a familiar procedure at places that offer professional packing). Keep it right side up at all times during shipment because older Selectrics, if inverted, are likely to break loose from the bottom of the case, causing damage. How to check out a used Selectric: I assume you have read the instruction manual and know the basic functions. Note that the ribbon is likely to be in poor condition, so make allowance for it or bring a new ribbon. (1) Turn the typewriter on. If the keyboard is locked, make sure the on-off switch is all the way to on, and press Mar Rel. If that unlocks the keyboard and it doesn't lock again, you're OK. (2) Listen. A running Selectric should produce only a low hum. If there is a click-click sound, there's likely to be a crack in the main sprocket, which is difficult to replace, and your Selectric is not long for this world. However, there are also other sources of click-click sounds. (3) Type every key, both shifted and unshifted, and make sure the right character prints. (Some type element you are using.) If there are problems, check whether the element has any of its teeth broken off along the bottom edge, and if so, substitute a good element and check again. (3a) Hold down the hyphen key (-) and type a series of hyphens to make sure they all strike correctly. This is a very stiff test of internal adjustment; it is also a stiff test of the type element, and worn or non-IBM elements often fail it. If you find a problem, definitely try changing elements. (4) Check for proper operation of Return, Exp, Index, and Tab, and check whether the keys come back up properly after you release them. At this point you are checking for cleaning and lubrication problems. (5) Type a page or two, fairly fast, and observe performance. It is likely to get better after you've typed for a few minutes, making sure to use every key several times. (Type "The quick brown fox jumped over the lazy dog.") Check other functions based on the instruction book. Note: Any typewriter that has not been cleaned and lubricated for 15 years or more will need maintenance. No matter how pristinely preserved, a vintage Selectric that has never been to the shop will not be ready to use today. On the other hand, a typewriter that has been under a maintenance contract may not be a good buy — it may be worn out by the time it gets to you. Wrong characters print occasionally: This can be an adjustment problem, but it can also be a sign of a slightly-out-of-spec type element. I have many GP Technologies type elements on which any attempt to autorepeat the hyphen key (type ------ by holding the key down) produces a mishmash of misstruck characters. With IBM type elements in the same typewriter, there is no problem. If wrong characters print consistently, look for teeth broken off the bottom edge of the type element. Keys stick down (do not come back up) after typing: If some keys type normally, but are slow to come back up after typing, this is probably a lubrication problem, easy to fix. It is most common with the key is slow to come back up on its own, if you pull it up you can type it again without any problem. To fix it, you may not even have to remove the cover; just flip it up as if you were going to change ribbons. You'll see that each key presses a bar down. The picture shows the lubrication points, at the lower one, it rubs against, and bends, a leaf spring whose job is to push it back up again. Do not spray WD-40 or similar substances into the typewriter because there are components that can be harmed by the spray. Instead, first use a can of compressed gas ("Dust-Off" or equivalent) to make sure there is no trash causing the bar to stick. Then apply tiny droplets of penetrating oil at the lubrication points, and type the key several times. Use a very light oil. Many kinds work well, but I have two favorites. One is Marvel Mystery Oil, which is a mixture of a light oil and a solvent; I have no idea whether it is good for car engines, but it is the recommended lubricant and cleaner for some tools and other small machines. Another is Mobil 1 Synthetic Motor Oil, grade 0W-20 (super-light). This is an exceptionally effective lubricant and penetrant, and I use it as a superior replacement for 3-in-1 and other general-purpose light oils. Be sure to apply no more oil than necessary so that the oil itself doesn't cause sticking. NOTE: The material above has not been updated since 2009. However, Peter Simpson has sent along the following updates, for which I thank him: One good place to find used Selectrics is: shopgoodwill.com Cracked power sprocket: there are two metal replacements available through eBay, one machined and one 3D printed. They come highly recommended. The hand cycle tool (with its wonky left-hand thread) is available on eBay. Phoenix Typewriter videos on Youtube will help you diagnose and repair common problems. There's a Yahoo and Facebook group: golfballtypewriters Recommended lubricants: IBM #10 oil = 0W30 Mobil 1 synthetic oil IBM #23 grease = Mobilgrease #28 Aero Grease PBBlaster penetrating oil works well to loosen gummed mechanisms (avoid WD-40, because it leaves a waxy deposit). Rather than lacquer thinner (which eats Selectric II keytops) use mineral spirits to loosen gummy grease — also cleans platens. 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