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Tecumseh Engine Rebuild for Mini Bikes and Conversion from Snow Blower Engine to Mini Bike Engine format. I buy and collect minibikes. 01/01/21. E-mail: chrp@providet.net chapters of the table of contents. 1. A Tecumseh Flat Head for your 1970s Minibike - Introduction. Suppose you have a vintage 70s mini bike and you want a good flat head motorcycle for it. How would anyone do that? First, lets talk about the history of the minibike engine. ... At the end of 1969 Briggs and Stratton decided that they would no longer sell their flat main bikes to mini-bike makers. They just didn't want to be associated with minibikes (probably more legal reasons than anything.) But anyway, this really opened the door for Tecumseh to deliver engines. And just about all mini-bike makers took Tecumseh on this, and used their bikes for minibikes during the 1970s. But the problem with 1970s motorcycles is time, and kids, and mini-bikes. After all, who rode mini-bikes during the 1970s... Crazy kids! And they probably didn't at these engines very well. That's why when you see a 1970s vintage minibike for sale today, it often misses the engine. The Tecumseh minibike engines of 1968-1970: H25, H30, H35, H540, H50. The best minibike engine, the H550, was only introduced in 1972. The H540, introduced in 1968, was also a very popular minibike engine. Noticed the balloon blower housing Tecumseh logo, which was replaced around 1971, with the double flags Tecumseh logo. The double flag was used until 1978 when a rectangle (boring) logo was used. Yes, there are modern engine replacements. The Harbor Freight S100 Predator 212 engine has a large number of old minibikes back on the road. But the look of the 212 engine is completely different from the old school Tecumseh flathead. For example, the cylinder is not vertical, it is more horizontal. In fact, there's really nothing that's even on a Predator 212 looks like a classic Tecumseh engine. And if you're going for that vintage look, the modern Predator 212 style overhead valve engine is just not going to cut it. This is what we want to get to... a minibike ready Tecumseh engine in white (or black.) This particular Tecumseh H550 engine came from a 1970s Ford snow blower. Or if you prefer to be in black... a minibike ready Tecumseh H550. This particular engine came from a 1970s Ariens snow blower. If your 1970s Tecumseh minibike engine, which is now 40+ years old and abused by every 10 years child in the neighborhood, is dead... How do you get a decent bike to restore your vintage minibike? Well the short answer is, Snowblowers! I guess it depends where you live, but here in the Midwest, old snow blowers are pretty common (and cheap.) And in general, at least here in the Midwest, a 20 or so or 40 year old snowblower engine tends to use fairly low. Why is that? Well they were only used during snow times (no dirt or high temperatures). And And the Midwest (I'm in Michigan), we don't tend to get much snow (maybe 30 inches a year). So these old snow blower flathead Tecumseh H550 engines are big donors for a vintage minibike. That said, snowblower flathead Tecumseh engines need some work to get them minimally road. And that's what we're going to discuss in this document. Obviously you need some tools to do this, and some general mechanical knowledge. I assume you have these things! You also need some parts. Most is available from Ebay or some of the online small engine warehouses. Also note some abbreviations such as SBH (short block horizontal), BB (ball bearing), GS (horizontal small frame), BCR (bump compression release), MCR (mechanical compression release). The Famous Tecumseh H540 Engine. We need to talk about the Tecumseh H540 engine. It was the mainstay of minibike frames during the 1970s. The Tecumseh 4hp H540 was introduced in 1958, but really didn't gain traction with minibike manufacturers until about 1970. At that point, the large frame H50 engine was out of favor (due to its extremely wide body size), and the much narrower H540 simply fit better into the wave of mini-cycle style bikes made in the 1970s (such as the Rupp Roadster, etc.) Since there was small size 5hp engine (until 1972 when the H550 was introduced), the H540 was really the go-to engine for a host of minibike/minicycle makers. A 1970 Tecumseh H540 restored and ready for use on a 1970 Rupp Roadster. Note the engine color (silver), which Rupp specified for their engines H540 from 1970. Also note the balloon logo, as used before 1971 on most Tecumseh engines. The black H540 engine in the background is a restored H540 engine for a 1971 or 1972 style Rupp minibike. The early 1968-1970 Tecumseh H540 engines had some minor differences, such as a mechanical compression release (MCR) cam shaft (as the engine begins, the compression release swings out of the way). The cam had a huge intake lobe on it and they compensated with a shorter lifter so they had to clear the crankshaft for it to fit. They then turned into a bump compression release (BCR) that was a permanent bump on the cam shaft for the exhaust. Frankly the BCR style can suck power out of an engine. Sure it helps with starting, but it doesn't go away as MCR after the engine starts. The bump can be easily ground out of the cam though. An unrestored 1983 Tecumseh H540 engine. The logo on the blower enclosure began around 1978. With all that said, you'll see many references to the H540 engine in this document. Not because I recommend getting an H540 engine from a snow blower... If you do that you're better off with an H550 snow blower engine. But many people want original H540 minibike 1968-1975 for their originality. Even if you have a minibike that has lighting (such as a Rupp Roadster), a H540 engine with a dynamo is really the way to use lights (I have yet to see a snow blower with an H550 engine and a dynamo)! This will see many H540 references in this document. (Although MTD made minibikes from 1972 to 1975 with original H550 engines and lighting facilities.) But again, if you need a motorcycle (you have nothing), and you want a Tecumseh flathead for your vintage 1970s minibike, converting a snowblower H550 motorcycle to minibike size is really the way to go! 2. Finding a good snowblower donor. Finding a good used (old) snow blower (if you're in a snow field), should be pretty easy. Craigslist (especially in summer) should net a good donor snowblower. Ideally you want a Tecumseh H550 (5hp) engine (introduced in 1972) on a scruffy looking snow blower, but a Tecumseh H540 (4hp) engines also work great (they were introduced in 1968). This is usually fairly easy to identify the snowblower model number. For example, a Toro 521 is a 21 wide snow blower with a 5hp engine. Make sure it's a Tecumseh flat head (H550 or HSK50 or LH195), and you're probably good. Even if you find a 4hp Tecumseh, the same model designations apply. That is, an Ariens 420 will be a 4hp engine on a 20 wide snow blower. The Tecumseh H50 (left) and H550 (right). There is a pretty dramatic difference in size in the two! The H50 is very wide, too wide for most minibike frames that are not specifically designed for an H50. Watch out, because I'm no longer 10 years old and 100 pounds, I'm trying to get 5hp flathead engines. But honestly the Tecumseh H540 engine (4hp) works pretty damn well too. One thing I would say, not a Tecumseh H50 engine. The H50, which before Tecumseh introduced H550 in 1972, is too wide of a format for many minibike applications (although some minibikes originally used H50 in the 1968-1971 time frame.) The H5 frame size is just much nicer of an engine to use in almost any minibike wanting a flathead. The Tecumseh HSK50 engine specifications for snow blowers. Note the cast iron cylinder cover. Tecumseh's HSKK designation means Horizontal Small Snow King. Also no discount on the newer HSK50 or LH195 Tecumseh snowblower engines. Although the pull starts look slightly different, these winter application engines are very good. So good actually, some have a cast iron cylinder (as opposed to aluminum.) These are damn good engines. In the 2000s Tecumseh came out with the LH195 engine. Basically it is a replacement for the H550 with some minor modifications. They advertise this engine as 5.5hp (instead of the HSK50's 5hp rating.) This happened because they opted in the porting, manifold, and cam a bit, making for a little more horsepower. This because they dialed in the porting, manifold, and cam a bit, allowing for a bit more horsepower. 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