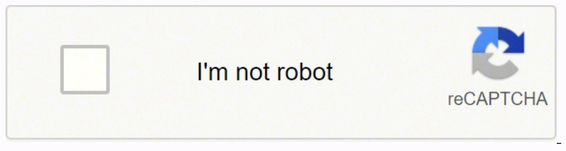


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# Ariens snow blower replacement engine

Photo Courtesy: Pixabay One of the worst tasks in the wintertime is shoveling snow, but you can put a stop to that backbreaking labor with a snow blower. There’s a snow blower for every scenario and situation, but how do you find the right one for your needs? Consumers like you have weighed in to say which snow blowers they prefer — and why. Keep reading to see which ones they deem the best so you can make an educated decision. MORE FROM CONSUMERSEARCH.COM Abby’s Guide > Outdoor Power Equipment (Lawn Mowers, Snow Blowers, Chain Saws and more) > Discussions > Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Garandman Location: South Boston, MA Joined: Mar 10, 2005 Points: 341 Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Original Message Mar 10, 2005 5:12 pm I have an old Ariens snowblower that is in good shape but with a tired engine. I've been looking into a new replacement. The logical candidates seem to be the Tecumseh OHSK70, the B&S Intek 7.5, and the Honda GX200. The Honda seems to have the most torque (10 ft lbs) but is also by far the most expensive - $500 versus around $300 for the other two.I have never seen a torque figure quoted for the Tecumseh, but it seems like the Intek 7.5 is around 7 ft lbs?Another engine that I came across was the Robin Subaru EX series, a 7hp OHC engine that has a lot of advanced features but isn't much more than the B&S or Tecumseh. They all have the same crankshaft (3/4") and height (about 4.17").B&S sent me data sheets on the replacement: the Honda dealer has an employee who did one; and Tecumseh gave me all the dimensions and concerns (mostly about fitting the chute crank under the engine) but they all seem like they'll work.I live in Boston MA and the current unit is a Tecumseh H50 on a 1970 Ariens. I checked the compression and it's 65 psi on the first pull and 75 psi after 2 or 3 (by hand pull). I do the sidewalks up and down the street for some older (or lazier) neighbors so the kids can walk to school without walking in the road. The blower is great because it compacts the snow a bit and the biggest problem here after a snowstorm is finding a place to put it. I've used the unit 8 times so far this season. This message was modified Apr 22, 2005 by Garandman Replies: 1 - 43 of 43View as Outline jubol Location: Dover, De Joined: Oct 3, 2003 Points: 1558 Re: Replacement snow engine - Tecumseh, B&S, Honda? Reply #1 Mar 10, 2005 5:26 pm GarandmanGo to Small Engine Warehouse and look at their engines and prices.I'd wait till till late summer to do your conversion, warmer and more selection on SB engines.Also review on this site,Reviews,there is a good one on Briggs Intek engines. Hope this helps. Fred This message was modified Mar 10, 2005 by jubol Husqvarna STE927(11.5HP) snowblower, MTD Pro Series 18/42 Lawnmower, MTD 6.5 HP Self Prop Lawn Mower, Weedeater 1500 Blower, Web Gensis 2000 mikefla1 Let's get it!!! Location: Lakeland Fl Joined: Jun 20, 2004 Points: 377 Re: Replacement snow engine - Tecumseh, B&S, Honda? Reply #2 Mar 10, 2005 5:43 pm Put a Kawasaki on it that thing will throw snow forever lol.Do they even make snowthrowers with Kaws. on them? Exmark 48inch & Bridges 36inch walkbehind, Scotts 21 inch walk behind mower,Husqvarna trimmer and blower, Echo PE200 edger,Weedeater & Stihl HL45C hedge trimmers,Echo CS440 chain saw and a Stihl HT101 power pruner, and a El Cheapo pressure washer. Majorxlr8n Location: Freehold NJ Joined: Aug 6, 2003 Points: 1092 Re: Replacement snow engine - Tecumseh, B&S, Honda? Reply #3 Mar 10, 2005 6:04 pm Does the Honda GX200 offer a heat box for winter use? If not, I would dismiss that choice unless you can locate a heat box for it.Otherwise, many like the Briggs Stratton Intek Snow engine - I believe it offers electric start too where with the Tecumseh the electric starter is extra.Marty Garandman Location: South Boston, MA Joined: Mar 10, 2005 Points: 341 Re: Replacement snow engine - Tecumseh, B&S, Honda? Reply #4 Mar 10, 2005 6:47 pm The Honda is not offered with a heat box or other Winter configuration. The local guy who put a Honda on his simply removed the air cleaner element and has had no problems with weather and is extremely impressed with the performance of the engine compared to his old H70. My brother has a Honda snowblower so I can take a look at what, if anything, is special for the application.Small Engine Warehouse does seem to have the best prices. They have some "scratch and dent" engines that are less expensive still. Some pop up on ebay but I'm reluctanct to purchase one from other than an authorized dealer.They show a Kawasaki 5 hp and 8 hp and the 8hp doesn't have the correct shaft. That's a little farther afield than I want to go. I don't need electric start or a headlight, so the provision isn't that useful to me. If a big storm is coming I put the blower in the basement (heated) so starting is not a problem. To boot, I live in Boston so it's not expecially cold, I have a gigantic 40 degree heat reservoir 400 yards away (called the Atlantic). Average snowfall YTD is 37". We've had 83 with more forecast for tomorrow. I'm not in a rush and will wait until snow season is completely over (April 1) to start, but this is the best tome of year for me to complete the project - Fall is much too busy. SnowPro Location: Sault Ste. Marie, Ontario, Canada Joined: Mar 16, 2003 Points: 395 Re: Replacement snow engine - Tecumseh, B&S, Honda? Reply #5 Mar 11, 2005 12:16 am Hey Garandman!.....Welcome to the forum! Go read my review and you can see what I think of the B&S engines.As far as the Honda replacements are concerned, I checked into that a while back and after I picked myself up off the floor, concerning the price, I took a pass. They would not warranty the engine after modifying it for snow use, and it seemed impossible for them to get a replacement snow engine????????Ken Garandman Location: South Boston, MA Joined: Mar 10, 2005 Points: 341 Re: Replacement snow engine - Tecumseh, B&S, Honda? Reply #6 Mar 11, 2005 5:59 am The frustrating thing about the B&S engine is that the spec sheet doesn't work on their website. Somewhere I found a spec sheet with torque values and as I recall it was about 7.5. I've never seen one for Tecumseh. The Intek does seem like the best balance of price/performance. I'd like to go to the next size engine but the output shaft is higher and the amount of work increases dramatically - you need a new shroud and have to make a bunch of adjustments with a new. longer v belt.. For the Intek or Snow King I just have to drill new mounting holes and move the chute feed so that it clears the housing, and another user has sent me a picture of what he did with his - he added a bracket and a u-joint. mml4 Snow is good,Deep snow is better! Joined: Dec 31, 2003 Points: 544 Re: Replacement snow engine - Tecumseh, B&S, Honda? Reply #7 Mar 11, 2005 6:26 am Hi Guys!Garandman- Take a look at the B&S 20D4140017 or 0019 (different shaft sizes). These are OHV Snow Inteks WITH cast iron bores. If your Ariens has a 24 inch auger or more this would be a great choice. Simplicity is using an Aluminum bore variant of this engine on their 24" to 32" Pro Models. If you go with power other than a direct replacement Tecumsh you are going to have to fiddle with mounting holes,belt size and maybe moving the chute linkage. Another way would be to find a new short block for the existing engine. Less of a problem for installation and you get to use your "old" style adjustable jet carb. If you replace with a new Tecumseh L head see if you can use your old carb on that application as the new fixed jet carbs are a pain in the a$$.Marc SnapperV210P,Toro22177,TroyBilt42010Snowthrower,Craftsman Shredder,American Turbo Pressure Washer HondaGX200,Stihl011Saw,EchoPas260Trimmer Edger,EchoPB602Blower,EchoHCR150Hedge Clipper Garandman Location: South Boston, MA Joined: Mar 10, 2005 Points: 341 Re: Replacement snow engine - Tecumseh, B&S, Honda? Reply #8 Mar 11, 2005 11:37 am The short block for the 5 hp H50 is available, for around $200. I could also recondition the one I have. But I'd like more power so that I can throw snow a bit farther and run in second gear more often. With the current (old) engine I have to run in 1st for anything more than 5-6" of powder or even less if the snow is at all heavy or wet. It seems to me it didn't do a lot better when it was newer. The crankshaft is in the same location and the shaft is the same diameter (or I'd go with a 8hp!) and the new mounting holes aren't any big deal. All I need is one flat sheet metal bracket and a U-joint to change the chute handle - a guy who has done this (with an OHSK70) sent me pictures.I'm thinking that a new 7.5 hp engine has to be more powerful than a reconditioned L-head 5 hp. Given the small cost differential between the two options the new engine seems attractive. I could buy another used Ariens 7hp and sell mine for only about a $50 delta but thought that going with a new engine was more attractive since I can sell the running 5hp on eBay or the like. I could also buy a 24" 8hp but they weigh more and that wouldn't be helpful for the manuevering I have to do. This message was modified Mar 11, 2005 by Garandman SnowPro Location: Sault Ste. Marie, Ontario, Canada Joined: Mar 16, 2003 Points: 395 Re: Replacement snow engine - Tecumseh, B&S, Honda? Reply #9 Mar 11, 2005 1:37 pm Tough call, Garandman. Sounds like you will have to do some fabricating regardless of engine used. The B&S Intek would be the engine of choice. Don't let the numbers fool you. It WILL perform well.Although.....replacing that machine with a newer one, that could receive a new engine, more easily if needed, is an option you can't ignore. You may be able to find one that you could get many years of service from, and recoup some cost by selling the old one as is. There always seems to be someone looking for something to tinker with.As far as rebuilding goes,IMHO, they usually don't last all that long that you feel you got your moneys worth.Ken jubol Location: Dover, De Joined: Oct 3, 2003 Points: 1558 Re: Replacement snow engine - Tecumseh, B&S, Honda? Reply #10 Mar 11, 2005 2:27 pm Garandman,Why not go with a Tec OHV 7HP.With that , I don't think you would have any bolt up, or foot print problems. Fred Husqvarna STE927(11.5HP) snowblower, MTD Pro Series 18/42 Lawnmower, MTD 6.5 HP Self Prop Lawn Mower, Weedeater 1500 Blower, Web Gensis 2000 SnowPro Location: Sault Ste. Marie, Ontario, Canada Joined: Mar 16, 2003 Points: 395 Re: Replacement snow engine - Tecumseh, B&S, Honda? Reply #11 Mar 11, 2005 2:39 pm Garandman,Why not go with a Tec OHV 7HP.With that , I don't think you would have any bolt up, or foot print problems. Fred I agree. I don't know for sure, but that engine would seem to be the least fuss to install and more HP to boot!Ken Garandman Location: South Boston, MA Joined: Mar 10, 2005 Points: 341 Re: Replacement snow engine - Tecumseh, B&S, Honda? Reply #12 Mar 11, 2005 3:18 pm The amount of work required to replace the H50 with the Tecumseh OHSK70 or the Briggs & Stratton Intek Snow 7.5 is identical. In both cases (and the Honda, and most engines of this size, it turns out) have the same 3/4" shaft mounted at the same height. I have pictures of both the Snow King and Intek Snow mounted on the same blower from folks who have done it. The local Honda dealer has an employee who mounted a GX200 on the same one, to boot, but I have not seen that one. All of them (and me) were interested in keeping the same extraordinarily robust old Ariens but with a more modern engine. The Honda is more expensive but has 10 ft lbs of torque compared to 6.5 for the B&S. That's a big increase. The Tecumseh torque value is unknown: only answer I've gotten is "same as the Intek Snow." jubol Location: Dover, De Joined: Oct 3, 2003 Points: 1558 Re: Replacement snow engine - Tecumseh, B&S, Honda? Reply #13 Mar 11, 2005 3:30 pm Garandman,I think the Tec engine mount holes are the same on the 7HP as your present 5.Briggs will require drilling new engine mount holes, with the Tec, bolt it on.Also check out, Tulsa Engine Warehouse, as they have the drawings of the engines,both Briggs and Tec's, with bolt patterns. Fred This message was modified Mar 11, 2005 by jubol Husqvarna STE927(11.5HP) snowblower, MTD Pro Series 18/42 Lawnmower, MTD 6.5 HP Self Prop Lawn Mower, Weedeater 1500 Blower, Web Gensis 2000 Garandman Location: South Boston, MA Joined: Mar 10, 2005 Points: 341 Re: Replacement snow engine - Tecumseh, B&S, Honda? Reply #14 Mar 12, 2005 6:54 am The new Tecumseh has the same size bolt pattern - but it's in a different location. The shaft height is the same for all of them. I have a picture a guy sent me that shows the relationship between the old and new. I took the drawings and made a dimensional cutout to see how the replacements would fit, and have pictures of my exact model with a Snow King and an Intek. The exact same amount of work is required to fit any of the new engines. The exact same amount of work is required to fit any of the new engines. The exact same amount of work is required to fit any of the new engines.....I don't need electric start, so hunting around online including ePay, the best delivered prices I have so far:Tecumseh HMSK 70 w/ 3/4" shaft - $255.B&S Intek Snow 7.5 w/ 3/4" shaft - $240.Honda GX200 w/ 3/4" shaft - $355.Small Engine Warehouse seems to have the best prices overall, and folks who have done busines with them seem satisfied. This message was modified Mar 12, 2005 by Garandman Richie Bring On The White Stuff Location: Long Island, New York Joined: Dec 12, 2003 Points: 562 Re: Replacement snow engine - Tecumseh, B&S, Honda? Reply #15 Mar 12, 2005 7:05 am I don't need electric start, so hunting around online including ePay, the best delivered prices I have so far:Tecumseh HMSK 70 w/ 3/4" shaft - $255.B&S Intek Snow 7.5 w/ 3/4" shaft - $240.Honda GX200 w/ 3/4" shaft - $355.Prices really drop sharply when you don't purchase an engine with the lighting alternator or 110 volt electric starter. I'd go with the Intec. If that engine performs as good as it looks, you'll have a winner. Richie jubol Location: Dover, De Joined: Oct 3, 2003 Points: 1558 Re: Replacement snow engine - Tecumseh, B&S, Honda? Reply #16 Mar 12, 2005 8:50 am Garandman,If it is the same work for all, I agree with Richie, go with the Briggs Intek.It should make one heck of a difference.Also I think you are going to have to change your pulleys , because of the increased HP.You will be going from a 5 to a 7.5 which is 150% of original! Fred Husqvarna STE927(11.5HP) snowblower, MTD Pro Series 18/42 Lawnmower, MTD 6.5 HP Self Prop Lawn Mower, Weedeater 1500 Blower, Web Gensis 2000 Vangellis Dream more easy in the chair that really fits you. Location: Factoryville, PA. (NE PA) Joined: Oct 1, 2003 Points: 373 Re: Replacement snow engine - Tecumseh, B&S, Honda? Reply #17 Mar 12, 2005 10:25 am Garandman Location: South Boston, MA Joined: Mar 10, 2005 Points: 341 Re: Replacement snow engine - Tecumseh, B&S, Honda? Reply #18 Mar 12, 2005 11:43 am Tough call, Garandman. Sounds like you will have to do some fabricating regardless of engine used. The B&S Intek would be the engine of choice. Don't let the numbers fool you. It WILL perform well.Although.....replacing that machine with a newer one, that could receive a new engine, more easily if needed, is an option you can't ignore. You may be able to find one that you could get many years of service from, and recoup some cost by selling the old one as is. There always seems to be someone looking for something to tinker with.As far as rebuilding goes,IMHO, they usually don't last all that long that you feel you got your moneys worth.KenThat would be simplest, and probably cheapest. But least entertaining.I have some nostalgic attachment to this unit as my dad bought it new in 1970. It's been extremely well cared for and maintained with new parts as apropriate and is overbuilt in a way modern design science doesn't accomodate. None of this makes economic sense. I use this thing 3-8 times a year to clear voluntarily clear sidwalks that I'm not obliged to clear - I just do it to be nice to some neighbors who are elderly, single moms, etc. Las year I used it twice. So it's mostly for entertainment value. The used market is pretty well developed around here - $200 to $250 for an old 5hp, $250 to $350 for an old 7hp. The 8hp often sell for less because they're heavier and harder to handle. Newer ones sell for $400 to 600. The 10 ft lbs of torque on the Honda is appealing. I could paint it white like the old Tecumseh and cause great puzzlement amongst owners of newer equipment. The folks I've spoken with who've "hot-rodded" them with large frame engines have regretted it because of the need for a different length v-belt and other changes. But the Intek is reasonably priced and may produce as much as 9 ft lbs of torque, so that looks like a prett nice choice. Having something that pollutes less is a good thing, as well. This message was modified Mar 13, 2005 by Garandman Garandman Location: South Boston, MA Joined: Mar 10, 2005 Points: 341 Re: Replacement snow engine - Tecumseh, B&S, Honda? Reply #19 Apr 19, 2005 10:35 am I bought a B&S Intek Snow 7.5 with electric start & alternator. B&S was the most helpful in giving advice about the transplant; the engine seems to perform well; and they have a two year warranty. Tecumseh was responsive but didn't have the pictures and directions B&S offered. Honda would not offer any advice at all and referred me to a local dealer, who quoted me $499 for a GX200. He'd put an 8hp Honda on his Ariens but that's a more difficult change because the crankshaft is a different height. I never got a square answer as to what changes would be required to use a Honda on a snowblower.Since I had to send the blower housing out for welding anyway, I cut off the bracket for the auger crank handle and will have it welded on to facilitate adding the u-joints required with the new engine. My blower is not the one shown (that's a B&S picture, I believe, but on the smallenginewarehouse site) but is otherwise the same model, so the OHV engine would interfere. I'm changing the friction disk while I'm waiting, repainting everything, changing to Snow Hog tires, etc. I bought the Duplicolor Chevy Orange DE1620 as suggested by Itzbinnace, and it does seem to be a perfect match for Ariens Orange. This message was modified Apr 19, 2005 by Garandman Garandman Location: South Boston, MA Joined: Mar 10, 2005 Points: 341 Re: Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Reply #20 Apr 26, 2005 9:51 am Here's the new and the old. Imagine my surprise after hearing from various sources that this change was difficult or impossible (local dealer) to see that the new engine mounts perfectly on the old studs for the H50. They're too short and will have to be drilled out and longer bolts used, but everything will bolt right on.A couple of ujoints for the chute crank and we'll be done! snowshoveler tides in dirts out surfs up Location: bridgewater nova scotia...aka the swamp Joined: Jan 3, 2003 Points: 1261 Re: Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Reply #21 Apr 26, 2005 5:01 pm i have swapped a lot of the 10 and 11 inteks for old tecumseh.havent had many problems with the swap.in fact we usually do it for the old engine.we sell the iginition and carbs and make a few bucks here and there.the ariens is sometimes a bit more time ,like you said you will have to modify the chute crank.but its not to bad .and wow what a machine you have when your done.later chris craftsman 10/28 snowblower with tracks husky 372xpg chainsaw sachs dolmar bc212 bushsaw mondo trimmer monster tractor with trailer cheep wheelbarro and couple shovels and a partridge in a pear tree Marshall As Long As There Are Tests, There Will Be Prayer In Public Schools. ;- ) Joined: Sep 16, 2002 Points: 7730 Re: Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Reply #22 Apr 26, 2005 8:36 pm Reminds me of an Escalade sitting next to an old Dart. Congrats, that's going to be a great set up when you're finished. robminits Joined: May 13, 2003 Points: 4691 Re: Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Reply #23 Apr 26, 2005 8:55 pm Only one little four barrel.Now that's a snowblower engine.Garandman, People love those Inteks. You should be real happy. Don't forget the pics of the conversion if you can. It should be great. pcardone Joined: Dec 10, 2005 Points: 3 Re: Replacement snow engine - Tecumseh, B&S, Honda? Reply #24 Dec 10, 2005 9:52 pm Hi Garandman,I just bought a used Ariens just like the picture that you posted. The model # and serial # were cut off of it so I am not able to figure out the best matching model number for this blower. You said you have one along the same line, mine matches the picture exactly, does yours? If it does, would you give me the specs of it along with Model # so I can look up more information about it? It's a very clean machine with a tired motor and some light carb work that needs to be done. I am also debating about changing motors or repairing the one I have. I have found some really good engine prices online and compared to fixing the existing engine, it is much more worthwhile just to buy a new one.Please respond with your model number and HP rating of your machine so I have an idea if it is the same thing, that way I can get other stuff like skid plates and such easier without a lot of trial and error. Thank you!PhilI bought a B&S Intek Snow 7.5 with electric start & alternator. B&S was the most helpful in giving advice about the transplant; the engine seems to perform well; and they have a two year warranty. Tecumseh was responsive but didn't have the pictures and directions B&S offered. Honda would not offer any advice at all and referred me to a local dealer, who quoted me $499 for a GX200. He'd put an 8hp Honda on his Ariens but that's a more difficult change because the crankshaft is a different height. I never got a square answer as to what changes would be required to use a Honda on a snowblower.Since I had to send the blower housing out for welding anyway, I cut off the bracket for the auger crank handle and will have it welded on to facilitate adding the u-joints required with the new engine. My blower is not the one shown (that's a B&S picture, I believe, but on the smallenginewarehouse site) but is otherwise the same model, so the OHV engine would interfere. I'm changing the friction disk while I'm waiting, repainting everything, changing to Snow Hog tires, etc. I bought the Duplicolor Chevy Orange DE1620 as suggested by Itzbinnace, and it does seem to be a perfect match for Ariens Orange. Garandman Location: South Boston, MA Joined: Mar 10, 2005 Points: 341 Re: Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Reply #25 Dec 11, 2005 6:17 am It doesn't seem like you left a message, ut here's the completed machine. Garandman Location: South Boston, MA Joined: Mar 10, 2005 Points: 341 Re: Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Reply #26 Dec 11, 2005 6:25 am Just saw this part of your message.[quote]I just bought a used Ariens just like the picture that you posted. The model # and serial # were cut off of it so I am not able to figure out the best matching model number for this blower. You said you have one along the same line, mine matches the picture exactly, does yours? If it does, would you give me the specs of it along with Model # so I can look up more information about it? It's a very clean machine with a tired motor and some light carb work that needs to be done. I am also debating about changing motors or repairing the one I have. I have found some really good engine prices online and compared to fixing the existing engine, it is much more worthwhile just to buy a new one.[/quote]Have to add another post because the Moderators (who must be strange people indeed) removed the ability to edit posts.....The engine is a 7.5hp Intek Snow with a 3/4" shaft and electric start. The shaft was a little longer than requird on the one I bought as a "scratch and dent" special - I cut it off with a hacksaw. I had to drill out the old studs and replace them with longer bolts. I have a personal website with more pictures and details, PM me if you need more info.Here's a comparison between the new OHV Intek and old H50. Because I bought an 8hp Ariens I haven't actually used this one yet. I'm bringing it to my brother in a week or so. He has a teenager to wring it out. pcardone Joined: Dec 10, 2005 Points: 3 Re: Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Reply #27 Dec 11, 2005 11:52 am It doesn't seem like you left a message, ut here's the completed machine.Wow, you did a nice job at cleaning that machine up. Looks brand spanky new! I believe mine is pretty much the same exact model, could you tell me the Ariens model number of yours? So you went 7.5HP Intek, I am still debating on which engine to put into my frame. I was hoping to go to at least an 8.5 or 9.5HP motor but need to be careful that the internal components can handle it. Mind if I ask the website where you got your engine from? I remember seeing those "scratch and dent" ones, but didn't save the link.Thanks! Garandman Location: South Boston, MA Joined: Mar 10, 2005 Points: 341 Re: Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Reply #28 Dec 11, 2005 11:11 pm Wow, you did a nice job at cleaning that machine up. Looks brand spanky new! I believe mine is pretty much the same exact model, could you tell me the Ariens model number of yours? So you went 7.5HP Intek, I am still debating on which engine to put into my frame. I was hoping to go to at least an 8.5 or 9.5HP motor but need to be careful that the internal components can handle it. Mind if I ask the website where you got your engine from? I remember seeing those "scratch and dent" ones, but didn't save the link.Thanks!The blower unit is 10995.The 8.5+ hp engines have the shaft in a different location and as this unit only has one blet, you're pushing it.I bought it at Small Engine Warehouse. pcardone Joined: Dec 10, 2005 Points: 3 Re: Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Reply #29 Dec 12, 2005 8:35 pm The blower unit is 10995.The 8.5+ hp engines have the shaft in a different location and as this unit only has one blet, you're pushing it.I bought it at Small Engine Warehouse.Thank you!! You answered questions that I wasn't able to find yet. So basically I should prob go the same route you did, Intek 7.5 and make the linkage arm for the chute. I could prob go to 8HP without a problem but no higher. Awesome! Thank you for all the help!!! Dans Joined: Nov 5, 2007 Points: 3 Re: Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Reply #30 Nov 5, 2007 10:51 pm Ariens snowblower engine upgrade. High performance Ariens snowblower.Check out this work in progress. Upgrading from a 6 HP Tecumseh to an 11 HP Honda!Had to relocate the motor mount studs. Needs a custom pulley as the new engine has a 1" dia shaft.5" OD cast iron pulley on order from McMaster-Carr. More Later... This message was modified Nov 5, 2007 by Dans Denis Location: CAN Joined: Points: 637 Re: Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Reply #31 Nov 6, 2007 1:18 pm Ariens snowblower engine upgrade. High performance Ariens snowblower.Check out this work in progress. Upgrading from a 6 HP Tecumseh to an 11 HP Honda!Had to relocate the motor mount studs. Needs a custom pulley as the new engine has a 1" dia shaft..5" OD cast iron pulley on order from McMaster-Carr. More Later...Wow! wish I could listen and see this snow eater!!! Good job pal keep the good work Professorpi Joined: Jul 26, 2007 Points: 16 Re: Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Reply #32 Nov 6, 2007 2:15 pm Nice, I'd like to see what you're going to do for the chute control. I've been toying with the idea of using a stepper motor, I think that would be cool. Dans Joined: Nov 5, 2007 Points: 3 Motorized Snowblower Chute Angle Control Reply #33 Nov 6, 2007 10:17 pm Professor,The stepper idea sounds good. I had been planning on using the old crank with a 3/8" socket set universal welded in line to make the turn up from under the engine to the handlebars. I like your idea-it eliminates a lot of cranking back and forth. You may be interested in a similar idea from utube-it's awesome! still waiting for my new engine pulley.Regards, Steve Professorpi Joined: Jul 26, 2007 Points: 16 Re: Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Reply #34 Nov 7, 2007 3:25 pm This might work for you if you didn't buy the pulley yet: Ebay Item number: 320177893719. Also, Garandman bought his universal joints from McMaster-Carr ~$12 each. jubol Location: Dover, De Joined: Oct 3, 2003 Points: 1558 Re: Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Reply #35 Nov 7, 2007 4:03 pm Save money on universal joints!!Go to a used hand tool shop and buy socket wrench universals.I bought 2 for a dollar when I mounted a new engine on my buddies snowblower!!Works great! Fred Husqvarna STE927(11.5HP) snowblower, MTD Pro Series 18/42 Lawnmower, MTD 6.5 HP Self Prop Lawn Mower, Weedeater 1500 Blower, Web Gensis 2000 Dans Joined: Nov 5, 2007 Points: 3 Re: Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Reply #36 Nov 7, 2007 10:05 pm The new pulley arrived today. It is installed on the shaft along with a longer belt. The original engine is shown for a side by side comparison. Note the increased size of the engine pulley. I am looking at incorporating a "Dead Man" belt tensioner as the auger and wheel drives on these old Ariens keep going if you let go of the handle bars while blowing snow. Thanks for your tips and suggestions.6HP Tecumseh and 11HP Honda nibbler Joined: Mar 5, 2004 Points: 751 Drive Pulley Size Reply #37 Nov 8, 2007 6:33 am It looks like the new pulley is at least double the size of the old one. That means the auger and impeller will be going over twice as fast. While this means the snow will be thrown faster and further it also means there is a lot more stress being put on the entire auger/impeller system. You will probably get a great deal of vibration and things will wear out pretty fast. Try using the lowest gear possible for the traction system or you might be running after a snow bazooka. Make sure you're no "aiming" at anything important. Professorpi Joined: Jul 26, 2007 Points: 16 Re: Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Reply #38 Nov 8, 2007 3:23 pm Excellent point Nibbler. Dans the engine pulley on my similar Ariens is 2.5" in diameter matched to a 9" drive pulley that reduces the 3600rpm of the motor to 1000rpm for the impeller. By using only a 2.75" pulley the angular frequency of the impeller increases to 1100rpm, a 10% increase. Match that 10% with your 11HP (wow) and you should achieve very good distance. Please keep us up to date. nibbler Joined: Mar 5, 2004 Points: 751 Pulley Size Reply #39 Nov 8, 2007 9:19 pm According to a previous post the new pulley has an OD of 5" as opposed to the probable 2.5" of the original. That means the auger rakes are running at about double their designed for speed. Add in the extra horsepower and there might be a problem with the auger system being too powerful and fast.The other thing to note is that the final RPM reduction occurs in the worm gear that converts the front to back axis of rotation into a left to right axis of rotation. I'd be afraid of an auger running at 1000RPM although you wouldn't need an impeller for a second stage boost. Professorpi Joined: Jul 26, 2007 Points: 16 Re: Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Reply #40 Nov 8, 2007 10:35 pm With a 2.5" pulley the impeller runs at 1000rpm, there is a 10:1 ratio for the auger, therefore auger turns at 100rpm. BTW a 3" engine pulley would increase speeds by 20%. probably the max. that can be achieved without too many problems as nibble mentioned above 5" pulley means impeller runs at 2000rpm way too fast. please note that I am no OPE expert. This message was modified Nov 9, 2007 by Professorpi tsmagas Joined: Nov 23, 2007 Points: 33 Re: Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Reply #41 Dec 1, 2007 6:14 pm nice Professorpi Joined: Jul 26, 2007 Points: 16 Re: Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Reply #42 Dec 4, 2007 12:06 pm Dans, how's the engine swap going? I'm curious b/c I'll be doing the same in the spring, in the time being I’m looking on eBay for a good deal on the engine. Marki86 Joined: Dec 28, 2007 Points: 1 Re: Replacement snow engine for old Ariens Snowblower - Tecumseh, B&S, Honda? Reply #43 Dec 28, 2007 10:27 pm Garandman,Sent you a PM. Would like to do exactly what you did with your 70's Ariens. Replies: 1 - 43 of 43View as Outline

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