

### Chapter 1 : Short Blocks - Minnesota Power Parts

*Did your Onan model BF-MS/F engine break down? SAVE money and repair it yourself! We are here to help - over genuine Onan repair and replacement parts that are hassle free and guaranteed to fit every time!*

Grumpy - Oct 25, Nov 04, Oct 30, Oct 29, What I found was not good and you can go back to the previous thread for the details if interested. Anyway, I found a brand new Honda 18hp v-twin at a decent price and I thought it would be better to start this new thread to describe the install. The engine came with no muffler and no fuel tank. It did have a fuel pump, electric start, and a 20 amp charging circuit. The following is a list of issues I ran into during the install and how I dealt with each of them. When installed with this bushing, the pulley fit snugly with absolutely no play. I think it will work OK but I plan to keep an eye on it. If I raised the Honda enough to make the horizontal heights the same, I was afraid I would have trouble with the tractor hood closing properly. This turned out to not be an issue when you see what I did in item 5 below. The gas line for the Honda was originally positioned out of the opposite side of the engine from where I needed it so that I could easily connect to my existing gas line. Since the Honda has a plastic shroud this was easy to do. In addition, there was also an additional tube on the Honda that was attached to the carburetor intake manifold. The Honda has a front and rear oil drain plug that would be difficult to access unless the engine was raised slightly. I felt like I only had two options here, I could re-work the battery holder or move the engine forward. Re-working the battery holder would be very difficult because the clutch pulley is welded underneath. I chose moving the engine forward enough to provide clearance for the spark plug. I knew that if I moved the engine forward, I would definitely have to buy a new drive belt and probably a new mower belt. To determine the size of the new drive belt I would need, I measured the distance I had moved the engine forward and added double that distance to the length of my existing belt. See photo for engine position. I considered two options to mount the Honda to the tractor frame. I could either drill through the frame and mount directly, or I could use the existing Onan mounting holes for a large steel plate and weld stud bolts to this steel plate in the proper position for the Honda. I decided to mount directly to the tractor frame with new drilled holes. After positioning the engine where I needed it to be, I started drilling the mounting holes. On the last hole that I drilled, I hit a cross brace under the frame which prevented a mounting bolt in the tractor frame there. The old ignition switch on my tractor has a position to apply voltage to the ignition coil to run the engine and shuts off the voltage to stop the engine. The Honda did not require voltage to be applied to the ignition coils to run. However, when the ignition switch is turned off the coils are to be grounded to stop the engine. The Honda also has a fuel cutoff solenoid attached to the carburetor. For the engine to run, this solenoid has to have voltage applied. I ran the wire from the switch, that had previously applied voltage to the ignition coils, to the fuel cutoff solenoid and omitted the grounding of the coils. I may need to add a separate cutoff switch later to ground the coils. I added a universal NPT threaded muffler to the threaded end of the black pipe. The pictures below show the tractor with the completed install. Another thing I forgot to mention. When I removed the old drive belt, I took the idler pulley for that belt completely off. When I took the tractor for a test drive with my new drive belt installed, I soon saw blue smoke coming out from under the tractor with the odor of burnt rubber. I soon found the problem though and corrected it and everything is fine now. The new drive belt was damaged a little but is usable. If some of the steps I have described are not clear, or If you have any questions or would like to see additional pictures, let me know.

### Chapter 2 : Onan BF-MS: Parts & Accessories | eBay

*We have Onan engine parts, including air filter, starters, breathers, capacitors, circuit breakers and boards, ignition parts, and more. Whether you have an Onan generator or other type of small engine equipment, Jack's has the replacement parts and accessories you need.*

I unfortunately cant help on the carb front, but as far as the onan goes I would say lost cause. Rebuilds are doable but rather expensive and it sounds like you might have one unrepairable cylinder. If you put in a want ad in the Wanted section you might come up with an Onan. I know someone on here a while back had a P for sale. Also might be a good candidate for a repower with a different brand. It will require a little work, i have never seen one done in a D series before, but I think a twin Honda or Kohler would look good in there if it fits. I actually have a spare Onan that came from a Sears tractor. Different model engine but only major difference is that it does not have an integrated oil filter and is an ugly green color. It also has fixed pulleys rather than the electric pulley but I can work around that. This second engine has the same issue with the float and is the one I have installed and mostly running right now. It is a bit more worn and smokes a little so I was hoping to eventually rebuild the original engine and put it back in. I have not pulled it apart other than taking off the head and finding the top of the piston laying on its side so I do not know if there is more severe damage inside yet but the gouging in the cylinder does not appear to be too bad and I could hone it out. I am hoping that the Sears version of the engine will only need rings but have not checked the cylinders for wear yet. The way this tractor is setup it should be pretty easy to fit a different model horizontal shaft engine even of a larger size if I can find one but they seem to be pretty darn expensive and not sure I can throw that much more money into this right now. I got the tractor because I have a serious need to use the bucket loader for a few big projects coming up. I think I can get this engine running with the right float and spring. I have seen the recommendations to upgrade to the bronze float but no reference to the part number for the spring. I can probably make something up myself to work but it would help if I had some idea of how much pressure the spring should be applying. I could try trimming the edges of the original floats until they no longer stick but they are coated with something to prevent them from absorbing the fuel and I would not know what to re-coat with after trimming the edges. Out my way these tractors run a bit expensive so getting parts tractors is pretty costly. In the long run I probably am better off doing a re-power but there are so few horizontal shaft engines to choose from and they get pricey.

### Chapter 3 : Onan model BF-MS engine genuine parts

*Onan BF/MS 16 HP Engine - posted in Parts: I have a good running onan BF/MS 16HP engine that I would like to sell for \$ The engine has been pressure washed and the carb cleaned. I believe it includes everything you would need except for a muffler, air filter, and voltage rectifier/regulator.*

### Chapter 4 : Onan | Classic Engines

*Sears Suburban, SS16 Tractor, Onan BF-MS/F engine, SS16 appears complete, 44years old Sears Suburban tractor, SS16 taking up garage space, SS16 make me an offer, Harvey Spooner, 8\_7\_*

### Chapter 5 : Onan calendrierdelascience.com, Rebuild Parts for Onan engines

*You can bore the 3 1/8 bore out to 3 1/4 say onan because they no longer make pistons for the bf-ms engines with the 3 1/8 bore which you engine has some of the d had b43m onans with 3 1/4 pistons.*

### Chapter 6 : Sears SS/16 Suburban Repower - GTtalk

## DOWNLOAD PDF 1972 ONAN BF MS ENGINE

*The main control board and a new light socket harness assembly will be needed. Both of these parts have been updated and the warranty has been extended 3 years from the purchase date, for this repair only.*

### Chapter 7 : Onan #BF-MS/ E float replacement - Rebuild parts? - Engines - RedSquare Wheel Horse Forum

*Onan Engines John Deere Horicon Works CTM2 (19APR90) LITHO IN U.S.A. ENGLISH. This component technical manual (CTM) contains necessary instructions to repair the engine.*

### Chapter 8 : CASE ONAN BF-MS Engine Intake manifold C - \$ | PicClick

*This site contains tips and engine specifications useful during engine rebuilding. Onan parts In Stock. Please call for parts or service help and our staff with over 30 years of experience will be happy to help.*

### Chapter 9 : Onan model BF-MS/F engine genuine parts

*Onan model bf ms/f engine genuine parts, did your onan model bf ms/f engine break down? save money and repair it yourself! we are here to help over genuine onan repair and replacement parts that are hassle free and guaranteed to.*