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It may be a bolt or a plug with a square or hex head. Use the appropriate wrench to loosen the drain plug and allow the old fluid to drain completely. Maintaining your Husqvarna zero turn mower is crucial for its optimal performance and longevity. One essential task is changing the hydrostatic transmission fluid, which lubricates and protects the transmission system. Follow our comprehensive guide to learn the step-by-step process of changing hydrostatic transmission fluid in your Husqvarna zero turn mower. Husqvarna hydrostatic transmission fluid Drain pan Funnel Rags or paper towels Wrench set Gloves Wear gloves and safety glasses. Park the mower on a level surface and engage the parking brake. Allow the engine to cool down completely before starting the procedure. Identify the transmission drain plug, usually located at the bottom of the transmission housing. It may be a bolt or a plug with a square or hex head. Place the drain pan under the transmission drain plug. Use the appropriate wrench to loosen the drain plug and allow the old fluid to drain completely. Remove the drain plug and inspect the O-ring for any damage or wear. Replace the O-ring if necessary. Clean the drain plug and O-ring thoroughly with a rag or paper towel. Apply a small amount of thread sealant to the threads of the drain plug. Tighten the drain plug securely using the wrench. Do not overtighten. Identify the transmission fill plug, usually located on the side of the transmission housing. It may be a bolt or a plug with a square or hex head. Insert the funnel into the transmission fill plug. Gradually pour the recommended amount of Husqvarna hydrostatic transmission fluid into the transmission. Refer to your mower's manual for the specific fluid capacity. Remove the funnel and reinstall the fill plug securely. Start the mower and let it run for a few minutes. Engage the transmission and check the fluid level through the sight glass or dipstick. If the fluid level is low, add more fluid through the fill plug. If the fluid level is too high, drain some fluid through the drain plug. Use only Husqvarna-approved hydrostatic transmission fluid. Change the fluid regularly according to the manufacturer's recommendations. Check the fluid level frequently, especially before and after mowing. If you notice any leaks or unusual noises from the transmission, seek professional assistance immediately. Leaking transmission: Inspect the drain plug, fill plug, and O-rings for damage. Tighten or replace as needed. Difficulty engaging the transmission: Check the fluid level and ensure it is at the correct level. If the problem persists, consult a qualified technician. Grinding or whining noises: Low fluid level or damaged transmission components could be the cause. Check the fluid level and seek professional assistance if necessary. Wrap-Up: Maintain Your Husqvarna Zero Turn for Optimal Performance Regularly changing the hydrostatic transmission fluid in your Husqvarna zero turn mower is essential for its smooth and efficient operation. By following these steps and adhering to the safety precautions, you can extend the lifespan of your mower and enjoy a hassle-free mowing experience. Remember, proper maintenance is the key to a well-performing and long-lasting Husqvarna zero turn mower. Q: How often should I change the hydrostatic transmission fluid in my Husqvarna zero turn mower? A: Refer to your mower's manual for the recommended change intervals, which typically range from 100 to 200 hours of operation. Q: What type of hydrostatic transmission fluid should I use? A: Always use Husqvarna-approved hydrostatic transmission fluid specifically designed for your mower's model. Q: Can I use any other type of fluid instead of Husqvarna hydrostatic transmission fluid? A: No, using non-approved fluids can damage the transmission and void your warranty. Was this page helpful?YesNo Thanks for your feedback! Jul 7, 2014 / Hydrostatic fluid Noob here looking for an answer to a question. I recently changed the drive belt on a Statesman 16.5/42". Lemme tell ya...what a chore. Glad this belt will prolly be this mower's last Kevlar. Anyway....the transmission whines...not bad...but going back to my old automotive days...it sounds like a power steering pump in my old T-bird after it leaked out a bunch of fluid. Now my mower don't leak....but I feel...have nothing to go buy....just a feeling...that it should have more power. How do I check the fluid level..and if it's low...what kinda fluid goes in? model# 13AN694G016 Thanks for your time. Jul 7, 2014 / Hydrostatic fluid You can download a manual from 301 Moved Permanently then put in your model# seriel #.. The manual says that you should not have to add fluid and doesn't require checking. If you need service go to a dealer.. The hydro holds 2.5 quarts SAE 20W50 Sep 13, 2016 / Hydrostatic Trans. Fluid Change RZT 50 Hi Everyone, Just completed a fluid change on the hydrostatic transmission on my older model RZT 50. I never did this, so thought it was about time to do so. It was pretty simple so I thought I'd post some pics of what I did. I took info from several of the posts here and videos elsewhere to get the job done. Here's what I did... 1. Clean, clean, clean. While my mower was cool I first cleaned the area with a jet power water stream, then with an air pressure gun. Clean the top surface of the transmission and the lower surface of the mower engine deck. You don't want any dirt falling into the trans fluid access plug hole. 2. After it's clean and dry, wipe it again with a cloth to be sure it's clean, then insert a 1/4 inch Allen wrench (or if you have a socket it is easier) and remove the plug. I had to use a metal pipe as a breaker bar to break the plug loose. Take out the plug. The plug is located in front of the vent port and tubing. I took off the vent tubing, be careful not to break the cheap plastic part, and cleaned the vent tube with Deep Creep. I found the tubing was pretty clogged with dirt and oil. I also cut off a 1/4" that attached to the barb, so it would be nice and tight when reinstalled. 3. Insert small hose and use siphon pump to suck out as much fluid as you can. I siphoned out 24 ounces of old dirty fluid. The fluid is thick and siphons out slowly, just keep pumping to get as much fluid out as you can. You may need to move the siphon hose around a bit to get into the bottom of the trans. I got my siphon pump from Harbor Freight for about $7, Walmart sells them too, back in the boating dept, I think. 4. Use a funnel and add new fluid to the trans. I used 20W-50 motor oil. I just put in 24 ounces, but I'll check the level after I mow once to be sure the level is as required. Many of the posts I've read say 1 inch from top of port. I used some of the tubing (about 5") that came with my siphon pump and attached it to the bottom of the funnel, so it would fit down through the access hole in the engine deck of the mower. 5. Replace the plug, put the vent tube back on and purge the trans for air pockets. There are many good posts for this and I followed those directions by disengaging the trans, starting the engine, and moving the go lever fwd and reverse a several times at normal operating speed. Hope this helps some of you. Keep on mowin'. Sep 14, 2016 / Hydrostatic Trans. Fluid Change RZT 50 I just got done doing mine. It hold 55 oz of 20w 50 per side. I think you missed some. :smile: Hey y'all, it's your boy Jeff here. Now I'm no mechanic, but I like to think of myself as a DIY kind of guy. And when it comes to my lawn mower, I like to take good care of it. That's why I make sure to regularly change the oil in the hydrostatic transmission.But let me tell you, it wasn't always easy. When I first started trying to change the oil in my hydrostatic transmission, I had no clue what I was doing. I ended up making a huge mess and nearly breaking my mower. But with a little bit of practice and some helpful tips, I've finally gotten the hang of it.So, if you're looking to change the oil in your hydrostatic transmission but have no idea where to start, don't worry. I've got you covered. In this article, I'll walk you through the steps to change the oil in your hydrostatic transmission like a pro.Step 1: Gather Your SuppliesBefore you start, make sure you have all the necessary supplies on hand. You'll need:Oil drain panNew oil (make sure to use the recommended type and amount specified in your mower's owner's manual)Oil filter wrenchRatchet and socket setFunnelStep 2: Locate the Drain Plug and FilterNext, you'll need to locate the drain plug and oil filter on your mower. The location of these will vary depending on the make and model of your mower, so refer to your owner's manual for specific instructions.Step 3: Drain the OilOnce you've located the drain plug, use your ratchet and socket set to remove it. Be careful, as the oil may still be hot if you've recently used the mower. Place the drain pan underneath the drain plug and let the oil drain out completely.Step 4: Replace the Oil FilterAfter the oil has completely drained, use the oil filter wrench to remove the old oil filter. Then, take the new oil filter and lubricate the seal with a small amount of the new oil. This will help the filter seat properly and prevent any leaks.Next, install the new filter by screwing it onto the engine in the same location as the old one. Be sure to tighten it securely, but be careful not to overtighten as this can cause damage.Step 5: Add New OilOnce the oil filter has been replaced, it's time to add in the new oil. First, check the oil level using the dipstick. If the level is low, use a funnel to add in the recommended amount of oil specified in your owner's manual.Step 6: Dispose of the Old Oil ProperlyNow that the oil has been changed, it's important to dispose of the old oil properly. Many auto parts stores and service centers will accept used oil for proper disposal. Do not pour the used oil down the drain or leave it in an open container, as it can be harmful to the environment.Conclusion: Pat Yourself on the BackAnd that's it! If you've followed these steps, you should now have a freshly oiled hydrostatic transmission. Go ahead and give yourself a pat on the back for a job well done.FAQHow often should I change the oil in my hydrostatic transmission?The frequency of oil changes will depend on the make and model of your mower, as well as the type of oil used. Refer to your owner's manual for specific recommendations. In general, it's a good idea to change the oil in your hydrostatic transmission at least once a year or every 50 hours of use, whichever comes first.Can I use any type of oil in my hydrostatic transmission?No, it's important to use the type of oil specified in your owner's manual. Different types of oil have different properties and can affect the performance and lifespan of your hydrostatic transmission. Using the wrong type of oil can result in damage and costly repairs.What should I do if I accidentally overfill the transmission with oil?If you accidentally overfill the transmission with oil, it's important to remove the excess as soon as possible.First, locate the oil fill port and use a turkey baster or other suction device to remove as much excess oil as you can. Then, start the engine and let it run for a few minutes to circulate the oil and help distribute it evenly. Check the oil level again using the dipstick and remove any additional excess oil as needed.What are the signs that my hydrostatic transmission oil needs to be changed?There are a few signs that your hydrostatic transmission oil may need to be changed. These can include a decrease in power or performance, unusual noises coming from the transmission, or leaks or puddles of oil under the mower.If you notice any of these issues, it's a good idea to check the oil level and consider changing the oil if needed.Are there any special precautions I should take when changing the oil in my hydrostatic transmission?Yes, there are a few precautions you should take when changing the oil in your hydrostatic transmission.First, be sure to use the proper tools and equipment, including an oil filter wrench and a drain pan. Second, be sure to use the correct type of oil as specified in your owner's manual. Finally, be sure to properly dispose of the old oil to avoid any environmental issues.The Bottom Line: Changing Your Hydrostatic Transmission Oil is ImportantIn conclusion, changing the oil in your hydrostatic transmission is an important part of maintaining the health and longevity of your lawn mower.By following the steps outlined in this article and using the correct tools and oil, you can easily change the oil in your hydrostatic transmission and keep your mower running smoothly.So, the next time you're tackling your lawn care to-do list, be sure to add changing the hydrostatic transmission oil to the mix. Trust us, your mower (and your back) will thank you. This transaxle is designed with an external filter for ease of maintenance. To ensure constant fluid quality levels and longer life, an oil filter change interval of every 200 hours is recommended.The following procedure is performed with the transaxles installed in the mower and the mower on level ground. Apply the pump release valve for each transaxle and set the parking brake.1.Remove the three ¼" filter guard screws and filter guard. Clean any loose debris from around the perimeter of the filter. See illustration.2.Place an oil drain pan (12" or more diameter and 8 qt. capacity is optimal) beneath the oil filter. Remove the oil filter from the transaxle.Drain old oil filters of all free-flowing oil prior to disposal. Place used oil in appropriate containers and dispose of it in accordance with laws in your area.3.After the oil has drained, wipe the filter base surface and apply a film of new oil to the gasket of the replacement filter.4.Install the new filter by hand, turning it three- quarters to one full turn after the filter gasket contacts the filter base surface.5.Reinstall the filter guard. Torque screws to 65 in/lbs. each.6.Repeat steps on the opposite side.7.Drain old oil filters of all free flowing oil prior to disposal. Place used oil in appropriate containers and dispose of it in accordance with laws in your area.8.Remove the top port plug (see illustration) from the left side and right side of the transaxles prior to filling with oil. This will allow the transaxles to vent during oil fill.9.Remove the cap from the transaxles' expansion tank located on the vehicle frame.10.Fill with 20W50 motor oil until oil just appears at the bottom of each transaxles' top port (approximately 2 quarts per transaxle, 4 quarts total). Install the top port plug into each transaxle as the oil level reaches the port.11.Install and torque the top port plugs to 180 in./lbs.12.Continue to fill the transaxles through the expansion tank until the FULL COLD line is reached (this will take approximately 23 additional ounces).13.Reinstall the expansion tank cap by hand. Be careful to not overtighten. 2 3 18019-0101.Filter guard2.Transaxle filter3.Top port plug ZT-3100 filter change To change the hydrostatic transmission fluid in your husqvarna, you need to locate the transmission oil filter, drain the old oil, replace the filter and fill the transmission with new oil. Changing the oil ensures that your mower operates at peak efficiency, keeping it in tip-top condition for years to come.Regular maintenance is essential to ensure your husqvarna lawn mower stays in good working condition. One important aspect is changing the hydrostatic transmission fluid. The hydrostatic transmission is responsible for controlling the speed and power of the wheels, so it's imperative to keep it in peak working order. In this article, we'll guide you through the steps on how to change the hydrostatic transmission fluid in a husqvarna mower. We'll also give you tips on how to choose the right oil and filter for your machine. So let's get started on giving your mower the care it deserves.Credit: www.usedlawntractorparts.comA hydrostatic transmission is a drivetrain that transmits power through pressurized hydraulic fluid. It consists of a hydraulic pump and hydraulic motor that work together to transfer power. The pump generates fluid pressure that moves the motor, which then translates that energy into mechanical motion.It's a highly efficient system that allows for smooth acceleration and direction changes. However, it's important to maintain the proper fluid level and quality. Low or old transmission fluid can cause symptoms such as difficulty in shifting gears, loss of power, and overheating.To change the fluid in your husqvarna hydrostatic transmission, follow the manufacturer's guidelines and seek professional help if needed. Regular maintenance will keep your transmission running smoothly for years to come.You May Also Like: How to Cut Grass under Trampoline? Tips and Tricks!Before changing the hydrostatic transmission fluid on your husqvarna mower, make sure you take the necessary safety precautions. This includes wearing protective gear such as gloves and goggles, parking the mower on a flat surface, and turning off the engine.The tools and materials required for the job include a drain pan, a funnel, and a new fluid specific to your model. Additionally, prepare the mower by removing any attachments and debris around the transmission. By following these steps, you can ensure a smooth and safe process for changing the hydrostatic transmission fluid on your husqvarna mower.To change the hydrostatic transmission fluid for your husqvarna lawnmower, you'll need to start by finding and draining the old fluid. This is usually located under the seat or near the engine. Once you've drained the fluid, you'll need to refill it with new, clean fluid.Be sure to check the owner's manual for the specific type of fluid needed for your mower. After refilling, check the fluid level and top it up if necessary. By regularly changing the transmission fluid, you'll keep your mower running smoothly and ensure a longer lifespan for your equipment.Don't forget to dispose of the old fluid safely and according to your local regulations.Changing the hydrostatic transmission fluid of your husqvarna tractor is a crucial part of its maintenance. Regular maintenance ensures the smooth functioning of the hydrostatic transmission. A common problem that arises is fluid leakage which could lead to extensive transmission damage.To prevent such instances, check for leaks and replace the transmission fluid once every 100 hours. In case you experience a lack of power while mowing, it might be due to a clogged air filter or dirty transmission fluid. Ensure that you stick to the manufacturer's recommended fluid type and grade.You May Also Like: What Grass Grows in Shade in Texas?Remember to change the transmission filter as well. These are some of the ways to maintain your hydrostatic transmission, and with regular upkeep, your husqvarna tractor can last for years.To test the transmission fluid, start the engine and activate the hydraulic control lever on your husqvarna. Observe if the tractor moves smoothly or jerks in motion. If the movement is rough, replace the filter and fluid. After changing the fluid, monitor the tractor's behavior to see if there are any issues.If your tractor still experiences issues or does not function smoothly, it's possible that the transmission has other problems. To troubleshoot, check the steering, belts, and pulleys. Ensure all are working correctly as these parts can affect the transmission's performance.By following these guidelines, you can save time, money, and get the most out of your husqvarna going forward.Maintaining your husqvarna's hydrostatic transmission fluid is crucial to ensure optimal performance and longevity of your machine. With the proper tools, a little bit of patience, and this guide, you can easily change your hydrostatic transmission fluid without having to spend a lot of money on professional services.Remember to consult your owner's manual for specific instructions and always use the recommended fluid for your husqvarna. Regular maintenance of your hydrostatic transmission fluid can save you money on expensive repairs and ensure that your husqvarna runs at its best for years to come.Don't wait until it's too late, take care of your machine now and enjoy it for years to come! Hydrostatic transmission is one of the most popular transmission systems used in vehicles and it is characterized by the pressuring and releasing of fluids, which often travel through various pumps. Many people also refer to it as the continuous variable transmission due to the continuous conversion of energy harnessed from the movement of fluid and directing it to the drivetrain. You put high viscosity oil (16.3 – 21.8 mm^2/s) in hydrostatic transmission. Thus, I recommend using 20W-50 motor oil. For an alternative, I suggest using 15W-50 synthetic oil. These densities enable the transmission to effectively compress the oil and generate enough energy to ensure your vehicle has the best performance. For your hydrostatic transmission to work at optimal levels, you need to make sure that you keep all the components lubricated. Additionally, the transmission would need certain oils to perform the task it is supposed to do. Hydraulic oil is often the encompassing term used to describe the oil used for the HTS. However, various types of oil hydraulic oil need to be accounted for when you are looking to refill the oil in your hydrostatic transmission. Here are some of the different oil types you can use in the HTS for the best performance. As mentioned, hydraulic oil is the most popular type of oil that you should consider. However, motor oil is a good alternative that offers the same purposes and should work just fine. Keep in mind that when using motor oil or engine oil, you will need to ensure that you have the right viscosity to ensure it works as intended. Mineral oil might have a massive element content, which could cause significant damage. Keep in mind that the climate and local temperature you live in could dictate the oil you should use. The higher the temperature, the faster the oil you choose could evaporate, leading to significant damage. It is often recommended that 20W50 oil works best when living in warmer climates and will be useful to undergo high-stress activities in hotter temperatures. Interestingly enough, vegetable oil and canola oil might also make great lubrications for the HTS. However, these oils should only be used as an alternative and for a short period until you can have the right oil compound. While most oils might get the job done, there are certain oils that you might want to avoid. The viscosity of the oil often dictates whether it would work best and you want to consider looking at the mineral content. Pure Mineral Oil: Pure mineral oil is one of the oils you should avoid adding to your transmission. These oils are heavier and they contain trace amounts of heavy elements, which might slow down the energy-creating process. Once the energy process is slowed down, it could cause significant damage to your transmission.Automatic Transmission Fluid (ATF): In the United States, most vehicles have an automatic transmission, which means that automatic transmission fluid is widely available. Unfortunately, the ATF is not the best solution for your transmission and since it is not compatible, it could cause significant damage. Viscosity refers to the grade of the oil and you need to ensure that you choose an oil with the right viscosity rating for your transmission. I suggest using high viscosity oil for your transmission but you need to look at the operating temperature range of your vehicle and transmission. This will give you an indication of the right oil to consider. The viscosity rating can drastically vary depending on the operating temperatures around your locations and the climates you are living in. In colder areas, you will have a different viscosity rating for the oil you are looking to add to the vehicle. Finally, you might come across a multi-grade hydraulic oil, which has the biggest variables when it comes to viscosity rating and you must consider the ranges of the oil before buying. Using the right Viscosity Index can help you better understand why certain oil might work for your vehicle and why not. Another thing to keep in mind when buying oil is its anti-wear properties. These properties are important to keep the engine clean and prevent possible wear. Zinc Dialkyl Dithiophosphate (ZDDP) is the most common anti-wear agent you will find in many oils. While this might seem simple enough, it is not the best chemical element to use when you don't have the right concentration. In terms of concentration of ZDDP, you want to consider that it has at least 900 parts per million and this will help to prevent some of the wear associated with your transmissions' use over time. Every vehicle has OEM (Original Equipment Manufacturer's) recommendations that you also need to keep in mind. In the modern era, you buy a vehicle and you will receive a service manual. The service manual is the best thing you can use to refill your transmission fluid. Using anything else might void your warranty and should be kept in mind. If you use the wrong oil, it could significantly damage the transmission. The incorrect oil will not only cause damage, especially if it is too mineral-laden and heavy, but it would also reduce the performance. Since hydrostatic transmission uses compression to convert the oil into energy, it might not be able to compress the fluid efficiently enough to do this. Finally, the long-term effects could be immense and when you don't have the right fluid, it might significantly damage the components, which essentially shortens the overall life of these components and might force you to replace them. If you are unaware of which oil to use in your hydrostatic transmission, you should visit your local mechanic to assist you in the process. In terms of hydrostatic transmission fluid, the rule of thumb is to replace it after every 100 hours of continuous use. For the first oil change, some recommend that you should replace it after the first 10 hours of use. However, this is often covered by the first service of your vehicle and you could consult with your mechanics to find out when is the best time for a replacement. One of the first things you notice when it comes to dirty or lack of hydrostatic transmission fluid will be that the gears will slip. Your vehicle will lack hydraulic power as a lack of or dirty hydrostatic fluid cannot be compressed as efficiently as it would be when new fluid is added. This will make it harder to shift gears and reduce the overall performance of the vehicle. If you neglect the changing process, you also run into the problem of components wearing out. Keep in mind that oily fluids in your engine have a secondary purpose of keeping components lubricated. Without this lubrication, you could run into significant damage to some of the components and this might be damaging to your vehicle. Before you run into any of these complications, you should follow the advice from the experts or your manual. By changing the fluid regularly, you will have solid components that often flow as they are working. You could also extend the lifespan of certain components that could significantly improve your life and save you some funds. Related Post: You are using an out of date browser. It may not display this or other websites correctly.You should upgrade or use an alternative browser. Thread starter boston Start date Nov 22, 2012 Nov 22, 2012 / hydrostatic my craftsman lawn tractor makes a very loud whining sound when moving and also doesnt move as fast as it used to. It seems like its really getting stressed when i move either forward or reverse. I added some oil to the transmission but it made the whining noise louder. It can still go up hills but who knows how long it will keep it up. Also, i tow around 2-300 pounds of equipment almost every day with the tractor. Nov 23, 2012 / hydrostatic check the drive belt make sure it has the proper tension a loose belt will not turn the transmission at the proper rpms You must log in or register to reply here. Hydrostatic transmissions are commonly found on lawn mowers, tractors and on other machines and vehicles. The purpose is because they allow you to mow through a wide range of speeds, which is useful for different types of terrain and cutting heights. This type of transmission works by using a hydraulic pump with a hydraulic motor to increase or decrease the pressure in the system, which changes how quickly the wheels turn and where that power is transmitted to within the machine. It's recommended to keep this fluid fresh and clean so it can create a tight seal with the other parts in your transmission system.Hydrostatic lawn mowerYou can follow these steps to efficiently fill a hydrostatic transmission on a lawn mower.You should allow the engine and transmission to fully cool before filling the transmission with oil. The engine and transmission of your lawn mower should be allowed to cool down before you fill it with oil. Allow the lawn mower to cool downThis is because the oil will expand and make it difficult to get out of the bottom of the engine or out of your lawn mower's transmission if it is too hot.To fill a hydrostatic transmission on a lawn mower, the old transmission oil needs to be gathered to prevent spillage. The old oil can be collected by placing a container under the drain plug and loosening the plug.To get the dirt and debris out of the hydrostatic transmission, you need to remove the filter element that is usually bolted to the top of it. If necessary, you will need to replace or clean your air filter. Remove all dirt from the transmissionThis happens more often on older mowers that have been run for many hours or if they have been sitting for an extended period without being used. It's also important to keep your spark plug clean so that it provides enough power for your engine to run efficiently.You should lose the hydrostatic transmission oil reservoir cap to allow air to enter the oiling system. Pour in the required amount of transmission fluid into the reservoir. Tighten the cap back down.If it is too tight, air can't enter, and the system will not work properly.Unscrewing the drain plugs from the bottom of your mower hydrostatic transmission should allow all its transmission oil to flow out onto a suitable surface.Next, it is essential for the transmission oil to be maintained properly for it to run smoothly. The hydrostatic transmission has a drain pan at the bottom of the filter and when it gets too full, it will need to be changed. To unscrew the transmission oil filter from the transmission oil filter housing, you should insert a wrench into the aperture of the cover and turn it counterclockwise. Please note that you must screw at a right angle or else it will break.Put a drop of clean transmission oil onto the gasket and thread the new oil filter onto it to replace the new transmission seal. The drain pan can then be moved to one side and underneath the transmission.Next, fill the hydrostatic transmission oil filter reservoirs with new transmission oil. Next, pour the transmission oil into the reservoirs and check that it has risen to the level of the filler neck. It's important that you don't overfill it because this could cause fluid leaks and damage the transmission. You can fill the oil reservoir to the full line that is embossed on the side of the reservoir tank. You may need to check your owner's manual for specifics, but usually you can simply fill up your tank until oil comes out of the hole on top.Screw the transmission oil reservoir caps and start the lawn mower engine. Check for transmission oil leaks before adding any oil to the reservoir or to the engine crankcase, which can lead to costly repairs. Drive the lawn mower in your lawn forward and backwards for a while to check for good transmission operation. Park the lawn mower on a level, flat surface. Shut off the lawn mower engine and check the level of the hydrostatic transmission oil. Check if the riding mower is running slow or normal. If it needs more transmission oil, finish adding it up to the 'full' line on the transmission oil reservoir.Start the mower and testHope this guide has showed you to replace the transmission on a lawn mower. Now you have clear idea about filling a hydrostatic transmission on a lawn mower. Still, you have trouble, you should get help from professionals. May 11, 2014 / hydrostat transmission fluid I have a front mount Grasshopper 718 and I'd like to know what fluid it requires in the hydrostat transmission? May 11, 2014 / hydrostat transmission fluid In my OPERATOR'S MANUAL & PART'S LIST for my 721D it says: "For Gemini transmissions, use Mobil DTE18M (Grasshopper Part No. 345280 for 1 gallon container). For severe duty, use Grasshopper Fluid Part No. 345050 for 1 quart container. You will find that the Grasshopper fluid is very expensive ~ $18-24 per qt or maybe as low as $70 to 95 per gallon depending on dealership. IIRC, the Mobil DTE18M has been replaced/superseded with Mobil DTE 10 Excel 100. Do a search here on Mobil DTE18M & you'll find some thread(s) on that subject. The 100 Excel will run you ~ $100 for a 5 gal bucket, which should be good for ~ 2 fluid changes, ...depending. But there are those that are going a different route with a _____68 (can't remember at the moment,) or ____26 (I think) I'll go back & try'n get you those make & numbers.