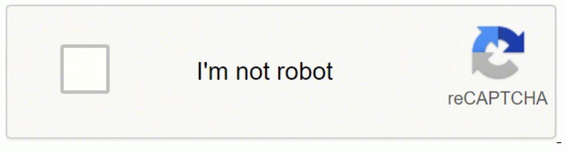

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How do you purge a hydrostatic transmission

Hydrostatic transmissions use oil, under pressure, to provide movement for the tractor. The fluid is pressurized with a pump inside the transmission. If any air is in the fluid, the pump will try to pressurize air. This condition is known as cavitation, and is detrimental to the pump since it allows the pump top operate dry. When the pump cavitates it is not pressurizing any fluid, so the transmission is not able to provide the movement needed. If your mower is new, or has been stored for a long period (longer than 2 months) the transmission needs to be purged before use. Also, if you experience loss of drive, or slower response, then the transmission should be purged first. The following procedure will remove trapped air inside the transmission(s). IMPORTANT: SHOULD YOUR TRANSMISSION REQUIRE REMOVAL FOR SERVICE OR REPLACEMENT, IT SHOULD BE PURGED AFTER REINSTALLATION BEFORE OPERATING THE TRACTOR. Step 1- Place the rear of the mower safely onto jackstands on a level surface with engine off and parking brake set. Step 2- Disengage transmission by placing freewheel control, located at the back of the frame, in the freewheeling position. 2a- Mowers with seperate pumps and wheel motors the freewheel is activated by turnign the bypass valves, one on each pump, two full turns. The oil resevoir needs to be filled to the specifications listed in the owners manual before starting the purge procedure. Step 3- Sitting in the operators seat(riders), start engine. After the engine is running, move throttle control to slow position. With motion control levers in neutral (N) position, slowly disengage clutch/brake pedal. Step 4-Move motion control levers to full forward position and hold for five (5) seconds. Move levers to full reverse position and hold for five (5) seconds. Repeat this procedure three (3) times. NOTE: During this procedure there may be some movement of the drive wheels, but they are not under load. The air is being removed from hydraulic drive system. Step 5-Move motion control levers to neutral (N) position. Shutoff engine and set parking brake. Check and add oil as needed for units with an oil resevoir. Step 6-Engage transmission by placing freewheel control into driving position, or by closing the bypass valves on the pumps. Step 7-Sitting in the operators seat, start engine. After the engine is running, move throttle control to full speed. With motion control levers in neutral (N) position, slowly disengage clutch/brake pedal. Step 8-Slowly move motion control levers forward, after the tractor moves approximately five (5) feet, slowly move motion control levers to reverse position. After the mower moves approximately five (5) feet return the motion control levers to the neutral (N) position. Repeat this procedure with the motion control levers three (3) times. Step 9-Your mower is now purged and now ready for normal operation. For further information or assistance, we recommend contacting your local authorized service center, Did this answer helped you? Please review your operators manual for detailed information on purging your transmission. To ensure proper operation and performance, it is recommend that the transmission be purged before operating tractor for the first time. This procedure will remove any trapped air inside the transmission which may have developed during shipping of your tractor. IMPORTANT: SHOULD YOUR TRANSMISSION REQUIRE REMOVAL FOR SERVICE OR REPLACEMENT, IT SHOULD BE PURGED AFTER REINSTALLATION BEFORE OPERATING THE TRACTOR. 1. Place tractor safely on a level surface - that is clear and open - with engine off and parking brake set. 2. Disengage transmission by placing freewheel control in freewheeling position (See “TO TRANSPORT” in this section of manual). 3. Sitting in the tractor seat, start engine. After the engine is running, move throttle control to slow position. With motion control lever in neutral position, slowly disengage clutch / brake pedal. CAUTION: At any time, during step 4, there may be movement of the drive wheels. 4. Move motion control lever to full forward position and hold for five (5) seconds. Move lever to full reverse position and hold for five (5) seconds. Repeat this procedure three (3) times. 5. Move motion control lever to neutral position. Shutoff engine and set parking brake. 6. Engage transmission by placing freewheel control in engaged position (See “TO TRANSPORT” in this section of manual). 7. Sitting in the tractor seat, start engine. After the engine is running, move throttle control to half (1/2) speed. With motion control lever in neutral position, slowly disengage clutch/brake pedal. 8. Slowly move motion control lever forward, after the tractor moves approximately five (5) feet, slowly move motion control lever to reverse position. After the tractor moves approximately five (5) feet return the motion control lever to the neutral position. Repeat this procedure with the motion control lever three (3) times. Your transmission is now purged and now ready for normal operation. Did this answer helped you? Husqvarna riding lawn mowers have a sealed transaxle or transmission and do not require fluid monitoring. When you purchase a new Husqvarna riding lawn mower or have a new transmission installed, however, purge the transmission to release air within the system. Air enters the system during shipping and when the transmission is replaced. Air in the system affects the supply of power to the lawn mower's wheels for forward and reverse movement. Raise the Husqvarna lawn mower's attachment lift lever on the left side of the operator's seat to the highest position. Walk to the rear of the lawn mower, and pull the freewheel control outward and down, locking the transmission in the disengaged position. Push the lawn mower to a flat, open area of your lawn. Sit in the operator's seat. Press the brake pedal forward with your left foot to engage the brake, and hold the brake pedal in that position. Push in the attachment clutch switch on the right side of the dash to disengage the cutting blades. Push the throttle control on the left side of the dash upward to the fast setting, and pull out the choke below it to engage it. Insert and turn the ignition key to the right, and immediately release it when the engine starts. Push the throttle control down to the slow position. Place the motion control lever on the right side of the seat in the center, neutral position. Press and release the brake/clutch pedal slowly. Move the motion control lever upward to "Forward" for five seconds. Move the motion control lever down to "Reverse," and hold it there for five seconds. Repeat this procedure an additional three times. Move the motion control lever to the middle, neutral position, and turn off the engine by turning the ignition key. Walk to the rear of the lawn mower. Lift the freewheel control, and push it inward to engage the transmission. Start the engine, and move the throttle to about one-half speed. Disengage the clutch/brake pedal slowly. Move the motion control lever to "Forward," and drive about 5 feet. Move the motion control lever to "Reverse," and drive about 5 feet. Move the control lever to the center, neutral position. Repeat the forward-reverse-neutral process three additional times. How do you troubleshoot a hydrostatic transmission? What oil goes in hydrostatic gearbox? Why does my hydrostatic transmission won't move? Why does my riding lawn mower run slow? What is a hydro gear transmission? How do hydrostatic brakes work? How do you bleed an Exmark hydraulic system? How often should you change hydrostatic transmission fluid? Is hydrostatic transmission better than automatic? What does it mean if a lawn mower is hydrostatic? What is the difference between hydrostatic and automatic lawn mower? Combustion engines, like those found in most cars, transfer power to the vehicle’s axle, which turns the wheels. Hydrostatic transmissions found in most modern tractors and zero-turn mowers, work by transferring power from the engine to hydraulic pumps which use liquid pressure to move the wheels. There’s no need for gears, and changing speed is smooth and efficient. With any transmission, things can go wrong. The first step is to read your Operator’s Manual. There are many different types of equipment with hydrostatic transmissions, and we can only offer general advice. Your tractor operator’s manual will have information specific to your make and model, and will offer helpful information about where to find filters and other parts that might require servicing are located on your tractor or lawn equipment. Where to find more information: Troubleshoot John Deere hydrostatic transmission problems Troubleshoot Kubota hydrostatic transmission problems Troubleshoot New Holland hydrostatic transmission problems Hydrostatic transmissions include mechanical parts such as a differential and a drive axle, plus rubber or metal hoses the liquid is pushed through. Failure of any mechanical component, a broken hose, or clogged filter will cause tractor hydrostatic transmission problems. But the most common issue will be the oil itself. In the transmission section of your operator’s manual, you’ll find a section that covers oil viscosity. Here’s an example from a John Deere manual. Note that, while temperature affects viscosity, the right oil has enough range to operate in any reasonable weather. Here are some basic troubleshooting tips to fix your hydrostatic transmission lawn tractor problem fast! 1. Zero-Turn Mowers: Purge Your Hydraulic Drive System Zero turn hydrostatic transmission problems can start with air in the system, a condition known as cavitation. When the pump is full of air instead of oil, it can’t generate the pressure needed to provide power. This is pretty common in zero-turn mower transmissions. After your mower has been stored for the winter, it’s a good idea to purge the transmission before use. It’s also a good first step if your motor is sluggish or slow. NOTE: If your mower or tractor has a transmission that must be removed for service, be sure to purge after it is serviced and before you use it. Park the mower on level ground, set the parking brake, and put the rear on jackstands. Make sure the oil reservoir is properly filled according to specs. Disengage the transmission (check your operators manual to see how this is done). Sit in the operators seat and start the engine. With the engine running, move throttle control to slow position. Position the motion control levers in neutral (N) and disengage clutch/brake pedal. Push motion control levers forward all the way and hold for five seconds. Pull motion control levers to full reverse position and hold for five seconds. Repeat steps 6 and 7 three times. This purges any air from the hydraulic transmission system. Put the control levers in neutral (N). Shut the engine off and set the parking brake. Check the oil and top off if necessary. Engage transmission. Remove from jackstands, start the engine, and disengage the brake. Move control levers forward and roll about 5 feet. Then slowly reverse about the same distance. Return the levers to neutral and repeat this steps three times. You’re done! The air is purged from your system and your zero-turn mower is ready for action. 2. Check The System If your system is purged and you still have a problem, it’s time to do a little basic troubleshooting. Start with a complete visual check of the hydraulic system. Check the oil level and add oil if needed. Inspect the hoses and connections for damage or signs of leaks. Clean pump cooling fins with a rag, brush, or compressed air, and check for damage. 3. Change Your Hydraulic and Steering Fluids Sluggish operation is often due to old or overused fluids. If there are no signs of fluid leaks or damage, it may be time to change your hydraulic and steering fluids. 4. Hire An Expert Troubleshooter If you need help troubleshooting your tractor’s hydraulic system, call your dealer. Their service department should be able to ask the right questions, give suggestions, and you can make an appointment for service if necessary. Call or visit us: Blairsville, GA: 706-745-2148 2934 W. Hwy 515 Blairsville, GA 30512 Jasper, GA: 678-454-2900 292 Interstate South Drive Jasper, GA 30143 Some things are beyond DIY. When it’s time to call in an expert, don’t hesitate. Your tractor represents a significant investment in terms of both money and delay. It’s one of those farm equipment essentials you simply can’t do without. When it needs to be fixed fast and done right, call an expert! Image source: Z915E ZTrak Zero-Turn mower with hydrostatic drive train, deere.com

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