



Ag Pro SS

Hydraulic System Bleeding Instructions

Grouser Products

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Purchase Date
Serial Number
Model Number
Tractor Model
Dealer

Hydraulic System Bleeding Instructions

Prior to operating the blade system, all air must be purged from the hydraulic system. Follow the steps below for each function on your blade.

Important

- Maintain proper hydraulic oil level in the tractor reservoir throughout all procedures.
- Operate functions at low engine speed and reduce hydraulic flow to **10%** during the bleeding process.
- Always loosen fittings slightly, do not fully remove.
- Always tighten fittings before reversing cylinder direction to prevent air from being drawn back into system.
- Refer to hydraulic schematics in Owner's Manual & Parts book if needed

Lift Function:

1. Use a lift or jack to manually lift the lift frame all the way up and securely block it in place.
2. At rear of tractor, install a quick coupler onto **Lift Up** hose (one orange spiral band) and connect to appropriate SCV.
3. Slightly loosen the fittings at **rod end** of both lift cylinders.
4. Ensure the flow is reduced to **10%** and actuate the raise function to retract the cylinders (raise the lift frame).
5. When a steady, air-free stream of oil flows from the fittings, stop the function and tighten the fittings.
6. At rear of tractor, install a quick coupler onto **Lift Down** hose (two orange spiral bands) and connect to appropriate SCV.
7. Slightly loosen the fittings at the **base end** of both lift cylinders.
8. Remove blocks and actuate the lower function to extend the cylinders (lower the lift frame).
9. When a steady, air-free stream of oil flows from the fittings, stop the function and tighten the **base end** fittings.
10. Cycle the lift system fully up and down 5–10 times, increase the flow as needed to a safe operating speed

Proceed to Owner's Manual & Parts Book for Blade Connection Instructions. Once Blade is connected to lift system, follow next instructions before operating blade system.

Angle Function:

1. Manually angle the blade until **left side** is fully in (**left angle cylinder fully retracted**).
2. At rear of tractor, install a quick coupler onto **right angle retract** hoses (one red spiral band) and connect to appropriate SCV.
3. Slightly loosen the fitting at the **rod end** of the **right angle cylinder**.
4. Ensure the flow is reduced to **10%** and actuate angle function to angle the blade to the right (**left cylinder extending / right cylinder retracting**).
5. When a steady, air-free stream of oil flows from the fittings, stop the function and tighten the fitting. Fully angle the blade all the way to the right.
6. At rear of tractor, install a quick coupler onto **right angle extend** hose (two red spiral bands) and connect to appropriate SCV.
7. Slightly loosen the fitting at the **rod end** of the **left angle cylinder**.
8. Ensure the flow is reduced to **10%** and actuate the angle function to angle the blade to the left (**right cylinder extending / left cylinder retracting**).
9. When a steady stream of oil (free of air bubbles) flows from both fittings, stop the function and tighten both fittings.
10. Cycle the angle function fully in both directions 5–10 times, increase the flow as needed to a safe operating speed.

Tilt Function:

1. Use a lift or jack to tilt the blade system until the **left** side is fully down (left tilt cylinder fully retracted).
2. At rear of tractor, install a quick coupler onto **Tilt Left Side Up** hose (two green spiral bands) and connect to appropriate SCV.
3. Slightly loosen the fitting at the **rod end of the right tilt cylinder** and the **base end of the left tilt cylinder**.
4. Ensure the flow is reduced to **10%** and actuate the tilt function to tilt the blade to the right (**left cylinder extending / right cylinder retracting**).
5. When a steady stream of oil (free of air bubbles) flows from both fittings, stop the function and tighten both fittings. Fully tilt the blade all the way to the right.
6. Remove the lift or jack.
7. At rear of tractor, install a quick coupler onto **Tilt Right Side Up** hose (one green spiral band) and connect to appropriate SCV.
8. Slightly loosen the fitting at the **base end of the right tilt cylinder** and the **rod end of the left tilt cylinder**.
9. Ensure the flow is reduced to **10%** and actuate the tilt function in the opposite direction (**right cylinder extending / left cylinder retracting**).
10. When a steady stream of oil (free of air bubbles) flows from both fittings, stop the function and tighten both fittings.
11. Cycle the tilt function fully in both directions 5–10 times, increase the flow as needed to a safe operating speed.

Final Check:

1. Run the blade through all functions.
2. If any function does not operate correctly, repeat the bleeding procedure for that function.
3. If problem persists, contact Grouser Products.
4. Check and refill the tractor hydraulic oil level as needed.

**IMPORTANT**

Before disconnecting multi-coupler, set blade on ground, and put all blade functions into float to relieve any additional built-up pressure.

Improvements

Grouser Products Inc. is continually striving to improve its products. We reserve the right to change prices, specification, or equipment at any time without notice. We also reserve the right to make improvements or changes when it becomes practical and possible to do so without incurring any obligation to make changes or additions to the equipment sold previously.

Warranty

Grouser Products warrants to the original purchaser of each item that the product be free from defects in material and workmanship under normal use and service for a period of **two (2) years for Agriculture Series Blades and one (1) year for Heavy Duty Series from date of original retail delivery.**

The obligation of the consumer under this warranty:

1. To read the operators manual and to operate, lubricate, maintain and store equipment in accordance with the instructions listed in the operators manual.
2. To inspect equipment and if any part needs repair or replacement when continued use would cause damage or wear to other parts or safety.
3. All equipment or parts claimed to be defective in material or workmanship must be made available for inspection at the place of business of a dealer authorized to handle the equipment covered by this warranty, or, upon request by Grouser Products, shipped to the Grouser Products factory in West Fargo, North Dakota.

The obligation of the dealer under this warranty:

1. Complete warranty registration form and submit within 30 days of sale.
2. Contact Grouser Products for authorization prior to performing any warranty repairs or part replacement.
3. Complete warranty request form and submit with photos and supporting documentation.

The obligation of Grouser Products under this warranty:

1. Repair or replace, any equipment or parts, in the judgment of Grouser Products to be defective in material or workmanship.
2. Grouser Products will cover the cost of parts and ground shipping at dealer invoice only.
3. Grouser Products shall have no obligation to bear the cost of labor or transportation in connection with replacement or repair of any such defective parts.

This warranty does not cover:

1. Depreciation or damage caused by normal wear, accident, improper assembly, improper adjustments.
2. Improper maintenance including lack of proper lubrication, or improper use. Including loose bolts, nuts, or fitting due to over tightening or vibration after 20 hours of operation.
3. Repairs or alterations without authorization from a Grouser Products representative.
4. Grouser Products shall have no liability if the equipment has been altered or reworked without the written authorization of Grouser Products.

Grouser Products' parts, which are furnished under this warranty and properly installed, shall be warranted to the same extent as the original parts under this warranty if, and only if, such parts are found to be defective within the original warranty period covering the original equipment.

NO EMPLOYEE OR REPRESENTATIVE OF GROUSER PRODUCTS IS AUTHORIZED TO CHANGE THE WARRANTY IN ANY WAY OR GRANT ANY OTHER WARRANTY.

Contact Us

As always, if you have any questions about your system or other products made by Grouser, feel free to contact us.



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