



EXC INSTALLATION INSTRUCTIONS



This instruction is a tool to assist dealer mechanics in the proper setup of the Fecon Bull Hog Excavator mulching attachment. Be sure to refer to the model code on the serial number plate to obtain the rated flow for each machine. Fecon recommends flow testing the excavator before beginning the installation. The Fecon mulcher can be configured to handle a wide range of flow; compare the flow rating in the model code to the actual flow from the tractor. Refer to the sheave arrangement charts in the parts section (pg#) and verify the mulcher attachment has the correct pulleys for the machines flow.

The excavator will need a lines group with a pressure line of adequate size and pressure rating for the specified flow and a return line of adequate size for the return flow. The case drain line should be sufficient to compensate for residual and lubricating oil flow (minimum $\frac{3}{4}$ " ID).

Tools and Supplies Needed

- Test hose- part # HFHY00682858
- Test gauge adapter- part # HFHY06003769
- 6000 psi gauge
- 1000 psi gauge
- 100 psi gauge
- Rotor locking tool (40075-01) or suitable stop
- Photo tachometer

Terms

RH = right hand

LH= left hand

GPM= gallons per minute

CW= clockwise

CCW= counter-clockwise

GL= gauge low pressure

GH= gauge high pressure



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Note:

Warm-Up Period (required)

Engage the mulching attachment at the lowest possible rpm at initial machine start up to allow for uniform warming of all components. All testing should be performed with the hydraulic warmed to at least 100°f.

1. Block up the rotor by installing the rotor locking tool onto the rotor so the cutouts are around the bolt and the open end is facing up (fig 2).
2. Insert the included bolt and washer and nut onto both sides of the locking tool and tighten.

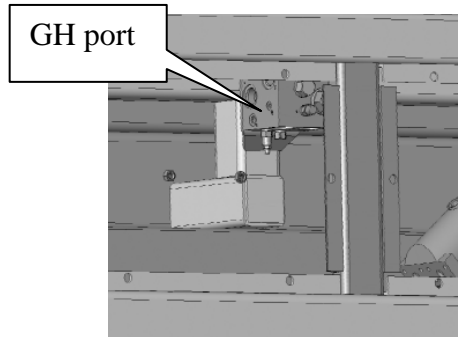




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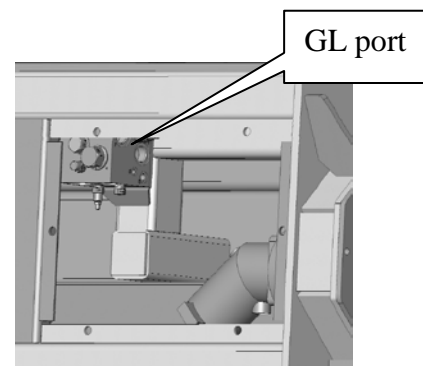
3. Locate the GH test port (fig) and attach a 6000+ psi gauge to the pressure tap on the protection block using the test hose (HFHY00682858) and test hose adapter (HFHY06003769).



4. Engage the mulching head for 5-10 seconds and record pressure at the GH port.

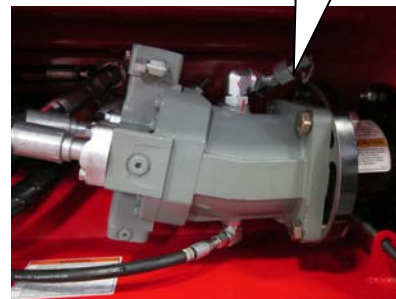
Note: Be sure to record system pressure of the tractor at the GH port with the rotor blocked. A reading below system pressure may require an adjustment of the spike relief valve.

5. With the mulching attachment disengaged, remove the stop from the rotor to allow the rotor to spin free.
6. Locate the GL test port and attach a 3000 psi gauge to the pressure tap on the protection block using the test hose (HFHY00682858) and test port adapter (HFHY06003769).



Danger: The rotor spins at a very high speed and serious injury or death could occur. Be sure all personnel are clear of the machine before engaging the mulcher.

7. Engage the mulching head and run at full rpm. Record pressure at the GH and GL ports.
8. Locate the case drain pressure test port (located on the drive motor) and attach a 100 psi gauge using the test hose (HFHY00682858) and test port adapter (HFHY06003769).
9. Engage the mulcher and run at full engine rpm. Record case pressure.



Danger: The rotor spins at a very high speed and serious injury or death could occur. Be sure all personnel are clear of the machine before engaging the mulcher.

Note: case pressure should be below 30 psi at all times. If pressure exceeds 30 psi, check for a restriction in the case drain return line.

10. Using a photo tachometer, record the rpm of the mulcher at full engine rpm.

Note: The rotor rpm should be between 1800-2000 rpm at full engine rpm.



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Be sure to verify operation of the carrier with the mulching attachment operating to insure proper functionality. It may be necessary to adjust the flow at the pumps on the carrier if the rotor rpm is above or below the recommendation.

Use proper safety precautions whenever testing or operating the head.
Contact Fecon if the rpm or the pressures are not in the specified range.
Record all values on the provided chart.

Rotor Blocked	Recommended Value	Actual Value
PSI @ GH port	Maximum system pressure	
Rotor engaged at full engine rpm	Recommended Value	Actual Value
PSI @ GH port	600-1000 psi	
PSI @ GL port	300-600 psi	
PSI @ case drain port	Less than 30 psi	
RPM of the rotor @ zero load	Recommended Value	Actual Value
	1800-200	

Notes:

- Although on a few select models of excavators the auxiliary tool circuit may be used for the mulcher, in most cases a priority valve installation will be required for maximized performance of the mulching attachment. The priority valve provides a constant, uninterrupted flow to maintain constant head speed. The priority valve is a mechanical valve into which all hydraulic flow of the excavator is directed. The necessary flow for the mulching attachment is then set as a constant and the remaining flow is directed to the other functions of the excavator (i.e. tracking, swing, stick, boom). Contact Fecon for more information on the priority valve installation.



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- An Operator Presence Control (dead man switch) should be installed in the cab of the excavator for the control of the mulching attachment either by means of a trigger or a foot pedal. The mulcher should not operate unless this switch is depressed.
- An additional emergency safety cutoff switch should also be in the electrical circuit.