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Product Affected:

Fecon TrimEx TE18C Tree Trimmer Setup Guide

Introduction

This guide provides step-by-step instructions for properly setting up the Fecon TrimEx TE18C tree trimmer. TrimEx is adaptable to various hydraulic flow rates and requires adjustment when transferred between different tractors.

Key Information

- Model: Fecon TrimEx TE18C tree trimmer
- Flow Rating: 10-30 gallons per minute (gpm)
- Target Blade Speed: 2500 RPM (± 100 RPM)
- Maximum Circuit Pressure: 4200 psi

Pre-Installation Notes

- Skid steers typically use different quick coupler fittings
- Consult the tractor manufacturer documentation for:
 - Correct fittings
 - Location of supply port
 - Location of return port
 - Location of case drain port
- The electrical harness may need to be changed depending on the tractor model
- The rotate function shares oil flow with the blade, requiring proper speed limitation to ensure optimal blade performance

Required Tools and Supplies

- Photo tachometer
- Basic hand tools including:
 - 9/16" wrench
 - 5/32" Allen wrench
 - 3/16" Allen wrench

Setup Procedure

Accessing the Function Valve

1. Open the hydraulic cover to access the function valve

Adjusting the Blade Speed (NV1)

1. Locate the NV1 and FR1 adjusters on the function block
2. Using a 9/16" wrench, remove the caps on both adjusters
3. Rotate both adjusters clockwise until they stop
4. Engage the TrimEx and measure the blade RPM

⚠ WARNING: The blade spins at a very high speed. Serious injury or death could occur. Ensure all personnel are clear of the machine before engaging the tree trimmer.

⚠ WARNING: Never walk in front of the tree trimmer when the blade is spinning.

5. Loosen the jam nut and use a 5/32" Allen wrench to adjust the NV1 flow adjuster
6. Set the blade speed to 2500 RPM (± 100 RPM)
 - Rotating counterclockwise: Increases blade RPM
 - Rotating clockwise: Decreases blade RPM

Adjusting the Rotate Function (FR1)

1. Locate the FR1 adjuster on the function block
2. Operate the rotate function
3. Loosen the jam nut and use a 3/16" Allen wrench to adjust the FR1 adjuster
4. Adjust until the rotator functions properly
 - Rotating counterclockwise: Decreases rotator speed
 - Rotating clockwise: Increases rotator speed

NOTE: The rotator should move as slowly as possible for better control during operation

Finishing the Setup

1. Replace the caps with both the FR1 and NV1 adjusters

2. Close the hydraulic cover

Troubleshooting

Symptom	Cause	Correction
Blade does not spin	Hydraulic flow from the host tractor is incorrect	Check the tractor manufacturer documentation for flow orientation
Blade RPM lower than specification	In adequate flow from the host tractor	Check flow specifications from the tractor manufacturer
		Check flow from the tractor
Rotate function does not work	No voltage to the function coils	Check for voltage at the coils
		Check for voltage from the host tractor
		Check the harness is correct for the host tractor