FECON SERVICE BULLETIN

Document ID: SB-174

Classification: Product Update

Priority: Medium

Release Date: 01-23-2024 **ECN Number: E00297**

Equipment Model: RK5015 and RK6015 Mulchers

Serial Numbers Affected: 00RK501510755 and lower and RK601510469 and lower

Component: Inline Check Valve (P/N: 182578)

Issue: In some instances, a lack of back pressure from the return port of the mulcher can cause

the rotor rpm to drop to low fixed speed.

Summary

This service bulletin addresses a specific condition in which a lack of back pressure from the RK5015 or RK6015 can in some cases cause the rotor speed to drop to a low fixed speed.

Defect Description

- **Defect Type**: Design defect
- Affected Component: Inline Check Valve (P/N: 182578)
- **Defect Manifestation**: Low back pressure in the mulching circuit can cause the rpms to drop on the mulcher.
- **Failure Mode**: The rotor speed can drop to a low fixed speed.
- **Risk Level**: Medium potential for improper rotor speed that does not recover as expected.

Symptoms

- RPMs drop to a slow fixed speed and do not recover until another function is activated on the prime mover.
- Rotor rpms are fixed at a slow speed and do not recover.
- Rotor rpm drops to a low fixed speed for an extended period of time before it recovers.

Required Tools

Basic hand tools

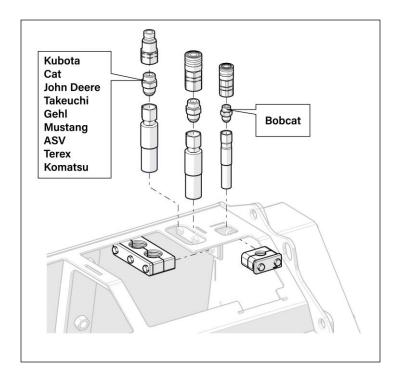
Repair Procedure

Step 1: Equipment Preparation

- 1. Park machine on level ground
- 2. Lower all attachments to ground
- 3. Turn engine off
- 4. Release hydraulic pressure by moving all control levers
- 5. Wait minimum 15 minutes for system cooling
- 6. Disconnect battery negative terminal

Step 2: Component Replacement

1. Replace the existing hose union in the main return hose with the new inline check valve (P/N 182578) as shown in illustration below:



Field Validation

- 1. Operate machine through full range of motion with no load
- 2. Gradually increase load to 50% of rated capacity
- 3. Monitor pressure gauges to ensure machine reaches expected values
- 4. Check for unusual operation or movements of the prime mover

Parts Information

Part Number	Description	Quantity
182578	Inline Check Valve	1

Service Time

Repair time: .5Testing time: .5Total labor: 1 hour

Machine Learning Tags

{ "document_type": "service_bulletin", "bulletin_id": "SB-174", "priority": "medium", "serial_range": ["00RK501510755", "00RK601510469"], "defect": { "component": "Inline Check valve", "part_number": "182578", "subcomponent": "Inline check valve", "failure_mode": "low rpm", "root_cause": "low back pressure" }, "symptoms": ["rpms are stuck at low rpm", "rpms recover when another function is activated", "rpms are slow to recover"], "repair_category": "component_replacement", "parts_required": ["182578"], "tools_required": ["Basic hand tools"], "labor_hours": 1.0, "images": ["valve_location.jpg", "spring removal.jpg", "pressure test points.jpg"]

Related Documents

• Technical Bulletin: SB-174

Warranty Information: This repair is covered under standard warranty terms for affected units. For units outside warranty period, contact <u>warranty@fecon.com</u> for authorization.

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