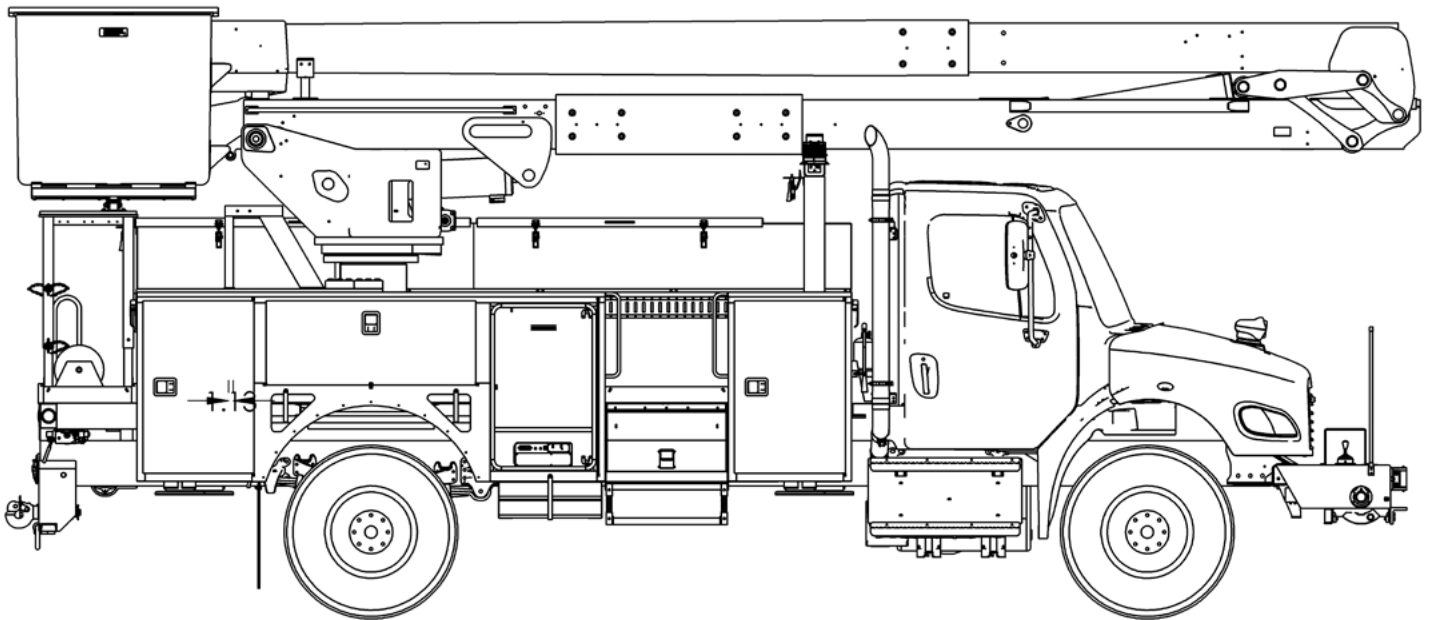




TECH TIPS

PRESSURE ADJUSTMENT OF POWER ASSIST CONTROLS

NO. 52



SERVICE CALL:
PRESSURE ADJUSTMENT OF
POWER ASSIST CONTROLS



MODEL(S):
5FA, 5FB, 5FC, 5HP, 5TC,
5TCX, 6TC, 6EHV, 6H, RM-HL,
SIDEKICK, SCRAMBLER (PRE
"95) & UNITS CONVERTED TO
POWER ASSIST CONTROLS




TOOLS NEEDED:
11/16", 1/2", 7/16" WRENCH
ADAPTER FROM FITTING TO
PRESSURE GAUGE
1/2"-12PT SOCKET, EXTENSION
AND RATCHET


TEREX UTILITIES TECHNICAL SUPPORT TEAM

PHONE: 1-844-TEREX4U (1-844-837-3948) | EMAIL: UTILITIES.SERVICE@TEREX.COM

! WARNING



Injection Hazard
Fluid escaping under pressure can penetrate skin and result in death or serious injury.



Relieve pressure before disconnecting hydraulic lines.
Stay clear of leaks and pin holes. Use a piece of cardboard or wood to search for leaks. Do not use hand.
Fluid injected into skin must be surgically removed within a few hours by a doctor familiar with this type of injury, or gangrene will result.



DANGER

Failure to obey the instructions and safety rules in the appropriate Operator's Manual and Service Manual for your machine will result in death or serious injury.

Many of the hazards identified in the Operator's Manual are also safety hazards when maintenance and repair procedures are performed.

DO NOT PERFORM MAINTENANCE UNLESS:

- ✓ You are trained and qualified to perform maintenance on this machine.
- ✓ You read, understand and obey:
 - manufacturer's instructions and safety rules
 - employer's safety rules and worksite regulations
 - applicable governmental regulations
- ✓ You have the appropriate tools, lifting equipment and a suitable workshop.

The information contained in this Tech Tip is a supplement to the Service Manual. Consult the appropriate Service Manual of your machine for safety rules and hazards.



TECH TIP 52 | RELEASED 07.26.2022 | VERSION 1.0
©TEREX UTILITIES. ALL RIGHTS RESERVED

CONTENTS

TECH TIP#52

TOC

4

| *Identify which function isn't working*

INTRODUCTION
STEP 1 - STEP 2

5

| *Install new orifice seat*

| *Install adapter and pressure gauge*

STEP 3 - STEP 5

6

| *Bleed the line and gauge*

| *Check the pressure.*

STEP 6 - STEP 7

7

| *Mark the block and seat*

| *Remove pressure gauge*

| *Test unit*

STEP 8 - STEP 11

INTRODUCTION

Pressure adjustment of power assist controls after orifice seat removal and replacement on the unit. One boom function is not working, but all others are.

STEP 1

Start truck engine, complete procedure for engaging the PTO and pump, set your outriggers, and select for unit controls at outriggers and upper controls at the lower controls.

STEP 2

At the upper controls identify which function is not working. You can match the control rod and piston that move of the non-working function at the top of the block to the orifice seat that is in line on the bottom of the control block.

Once identified shut down the unit and bleed the pressure from the control head. Disconnect the control line and remove the orifice seat from the control head.



Escaping fluid under pressure can penetrate skin causing serious injury.

Relieve pressure before disconnecting hydraulic lines. Keep away from leaks and pin holes. Use a piece of cardboard or paper to search for leaks. **DO NOT** use your hand.

STEP 3

Remove compression fitting from old orifice seat and install into new orifice seat using Loctite 242 thread sealant. Install O-rings and backup rings onto orifice seat. Coat the new orifice seat threads with Loctite 242 sealant.



STEP 4

Install orifice seat three complete turns into control head.

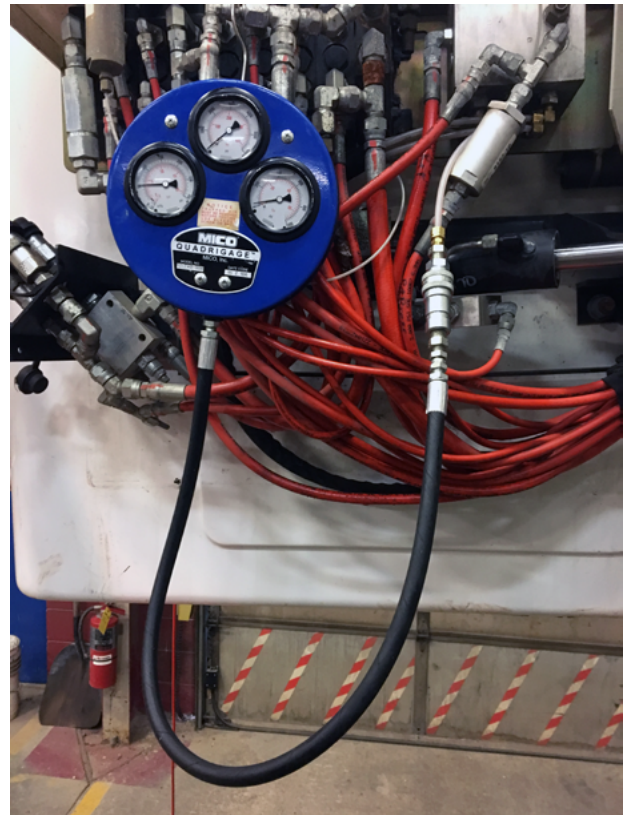


Escaping fluid under pressure can penetrate skin causing serious injury.

Relieve pressure before disconnecting hydraulic lines. Keep away from leaks and pin holes. Use a piece of cardboard or paper to search for leaks. **DO NOT** use your hand.

STEP 5

Install adapter and pressure gauge onto the orifice seat that was replaced. Start the truck and verify that the gauge is reading 0 PSI.



STEP 6

Activate the upper control enable and bleed the adapter line and gauge. Once bled, the pressure gauge should read 50 ± 10 PSI with the upper control enable on.



Escaping fluid under pressure can penetrate skin causing serious injury.

Relieve pressure before disconnecting hydraulic lines. Keep away from leaks and pin holes. Use a piece of cardboard or paper to search for leaks. **DO NOT** use your hand.

STEP 7

With the enable still activated operate the function that corresponds with the replaced orifice seat. The gauge should read 350 ± 20 PSI at full stroke. It should also increase smoothly from 50 to 350 ± 20 PSI. If the gauge does not read 350 ± 20 PSI when the control function is fully actuated:

- Increase the pressure by turning the orifice seat in
- Decrease the pressure by turning the orifice seat out



STEP 8

Move the control handle back to the neutral position and verify that the pressure gauge reads 50 ± 10 PSI. Release enable lever and the pressure should drop to 0 PSI. Actuate the enable lever and control handle function again for the orifice seat being tested. The attached pressure gauge should read $350 \text{ PSI} \pm 20 \text{ PSI}$ when the control function is fully actuated.

STEP 9

Mark the bottom of the block and the seat to give future reference that setting has been maintained.



STEP 10

Remove pressure gauge and reinstall $\frac{1}{4}$ " nylon tubing to compression fitting and bleed control lines following tech tip #1.

STEP 11

Test unit for proper operation from the upper controls.



Escaping fluid under pressure can penetrate skin causing serious injury.

Relieve pressure before disconnecting hydraulic lines. Keep away from leaks and pin holes. Use a piece of cardboard or paper to search for leaks. DO NOT use your hand.



FOR FURTHER ASSISTANCE,
CONTACT THE TEREX UTILITIES TECHNICAL SUPPORT TEAM
PHONE: **1-844-TEREX4U (1-844-837-3948)** | EMAIL: **UTILITIES.SERVICE@TEREX.COM**
