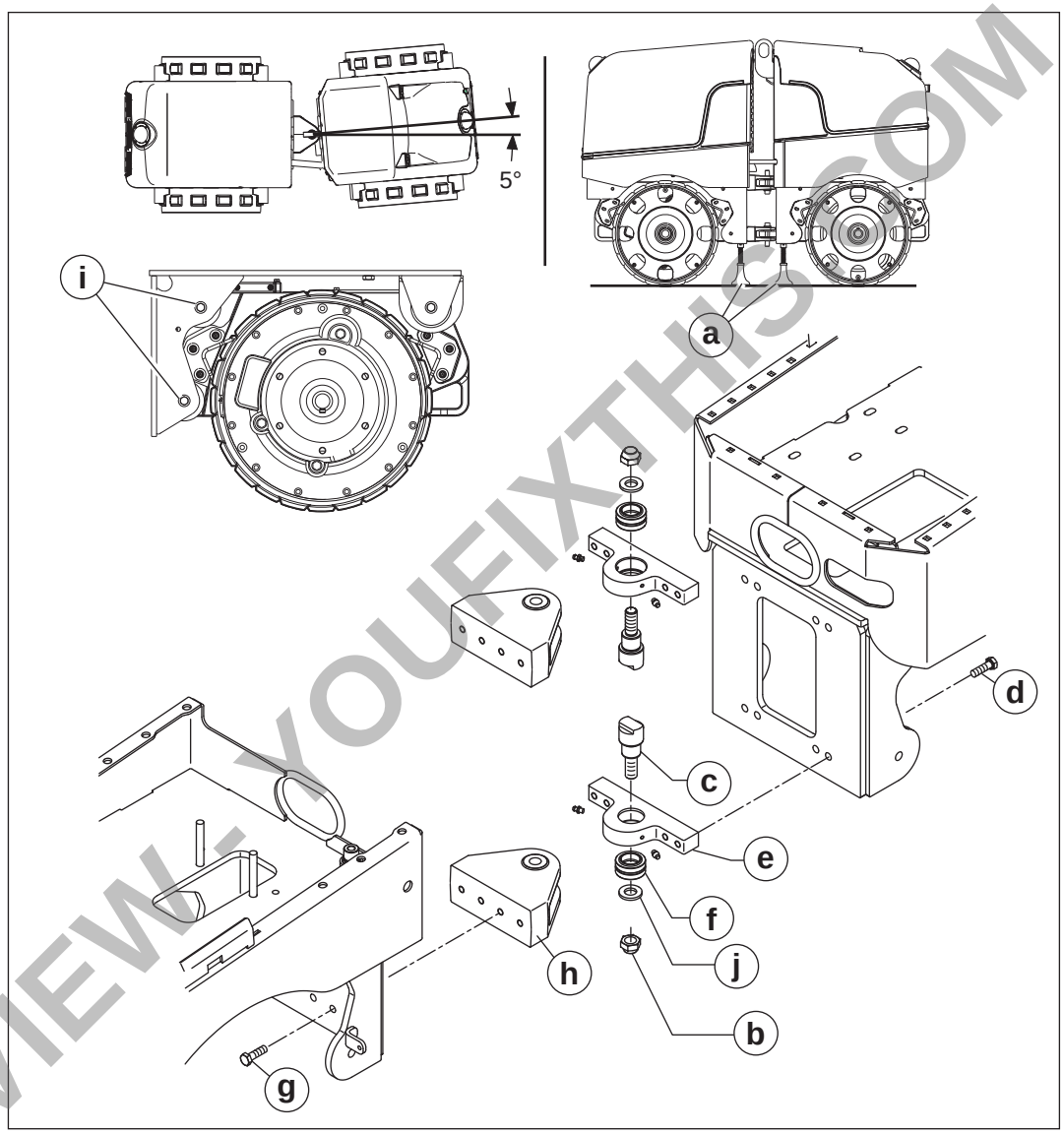
9.4 Disassembling the Articulated Joint

Requirements

- Jack screws or equivalent
- Arbor press

Reference graphic



wc_gr010658

Procedure

Perform the procedure below to disassemble the articulated joint.

1. Position the machine so that the two halves are not straight in-line with each other; but rather, are off center by approximately 5°.
2. Support the two machine halves with jack screws **(a)**.
3. Remove the nut **(b)** securing the pivot pin **(c)** and remove the pivot pin.

This procedure continues on the next page.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

3 Troubleshooting Engine Starting (no crank, no start)

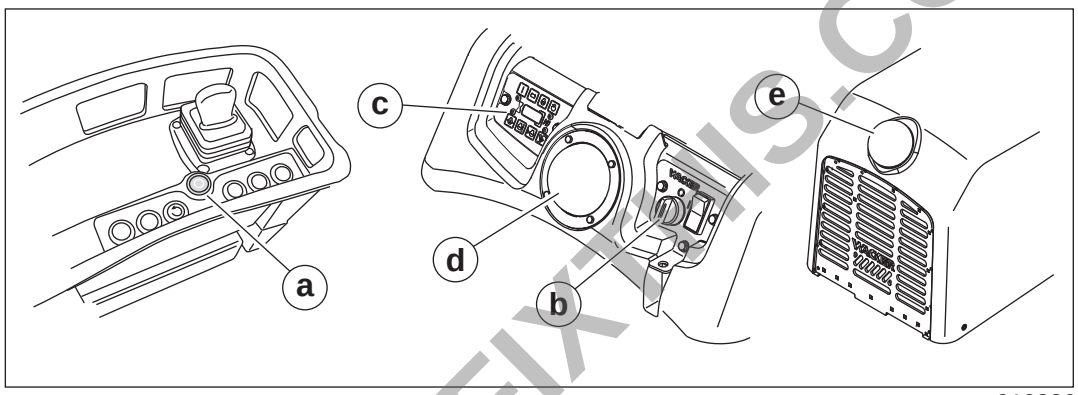
3.1 Troubleshooting Sequence

Tools required All procedures can be accomplished with the following tools:

- Multimeter
- General hand tools (ratchet set, screwdrivers, etc.)

Where to start To determine where to start:

1. Press the ON/OFF pushbutton **(a)** to turn on the transmitter module.



wc_gr010326

2. Set the key switch **(b)** to the ON position.
3. Observe the lights of the control panel **(c)** and the LEDs of the light ring **(d, e)**.
4. See below for scenarios and task sequences. Complete all tasks in the order listed.

Scenario	See Task Sequence
■ The control panel lights do not illuminate. ■ The amber LEDs do not illuminate.	A
■ The control panel lights illuminate. ■ The amber LEDs are on continuously or are off.	B
■ The control panel lights illuminate. ■ The amber LEDs flash or are on continuously. ■ The red LEDs are on continuously.	C
■ The control panel lights **do not** illuminate. ■ The red LEDs are on continuously.	D
■ The control panel lights illuminate. ■ The amber LEDs flash on and off.	E

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



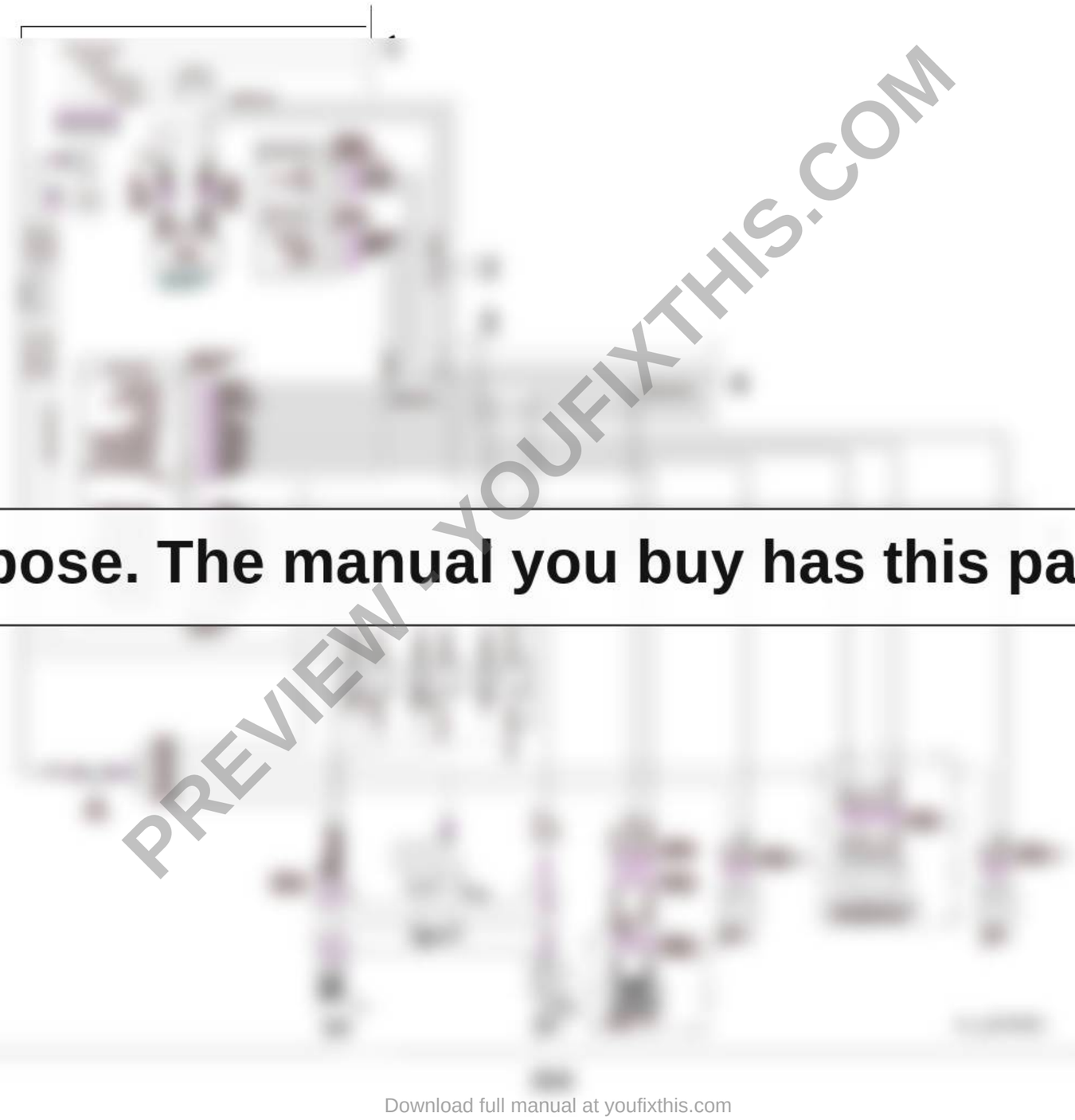
Blurred on purpose. The manual you buy has this page in full quality.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

12 Schematics

12.1 Electrical Schematic - Sheet 1



PREVIEW - YOUFIXTHIS.COM
Blurred on purpose. The manual you buy has this page in full quality.
Download full manual at youfixthis.com

11 Technical Data

11.1 Engine

Engine Power Rating

Net power rating per ISO 2046/1. Actual power output may vary due to conditions

PREVIEW - YOUFIXTHIS.COM

Blurred on purpose. The manual you buy has this page in full quality.

Download full manual at youfixthis.com

Foreword 3

1 Safety Information 11

1.1 Signal Words Used in this Manual 11
1.2 Machine Description and Intended Use 12
1.3 Safety Guidelines for Operating the Machine 13
1.4 Service Safety 15
1.5 Safety Guidelines for Lifting the Machine 16
1.6 Hydraulic Fluid Safety 17
1.7 Operator Safety while Using Internal Combustion Engines 18

2 Operation 20

2.1 Control / Component Locations 20
2.2 Control / Component Descriptions 21
2.3 Features and Controls 24
2.4 Accessing the Engine or Hydraulic Component Compartments 25
2.5 Accessing the Control Compartment 26
2.6 Control Panel 27
2.7 SmartControl™ SC-2 Transmitter 29
2.8 Operating Status Indicator Codes 31
2.9 Infra-red System and Control Channels 32
2.10 Before Starting 34
2.11 Starting 35
2.12 Stopping 36
2.13 Light Ring Color Codes 37
2.14 Operation 38
2.15 Position of the Operator 39
2.16 Range Limits 40
2.17 Operating Characteristics 41
2.18 Communication Faults 41
2.19 NiMH Battery 42
2.20 Replacing the Battery Pack 42
2.21 Charging the Transmitter Battery 43
2.22 Tip-Overs 44
2.23 Emergency Shutdown Procedure 44
2.24 Overview of the ECM and the Diagnostic Tool 44
2.25 ECM Stages of Engine Start Up 45
2.26 ECM Monitoring of Solenoids 46
2.27 Connecting the Diagnostic Tool 47

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1 Safety Information

1.1 Signal Words Used in this Manual

This manual contains DANGER, WARNING, CAUTION, *NOTICE,* and NOTE signal words which must be followed to reduce the possibility of personal injury, damage to the equipment, or improper service.



This is the safety alert symbol. It is used to alert you to potential personal hazards.

- ▶ Obey all safety messages that follow this symbol.



DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

- ▶ To avoid death or serious injury from this type of hazard, obey all safety messages that follow this signal word.



WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

- ▶ To avoid possible death or serious injury from this type of hazard, obey all safety messages that follow this signal word.



CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

- ▶ To avoid possible minor or moderate injury from this type of hazard, obey all safety messages that follow this signal word.

NOTICE: Used without the safety alert symbol, NOTICE indicates a situation which, if not avoided, could result in property damage.

Note: *A Note contains additional information important to a procedure.*

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

- If you are missing any of these documents, please contact Wacker Neuson to order a replacement or visit www.wackerneuson.com.
- When ordering parts or requesting service information, be prepared to provide the machine model number, item number, revision number, and serial number.

Expectations for information in this manual

- This manual provides information and procedures to repair the above Wacker Neuson model(s). For your own safety and to reduce the risk of injury, carefully read, understand, and observe all instructions described in this manual.
- Wacker Neuson expressly reserves the right to make technical modifications, even without notice, which improve the performance or safety standards of its machines.
- The information contained in this manual is based on machines manufactured up until the time of publication. Wacker Neuson reserves the right to change any portion of this information without notice.

CALIFORNIA Proposition 65 Warning

Combustion exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Laws pertaining to spark arresters

NOTICE: State Health Safety Codes and Public Resources Codes specify that in certain locations spark arresters be used on internal combustion engines that use hydrocarbon fuels. A spark arrester is a device designed to prevent accidental discharge of sparks or flames from the engine exhaust. Spark arresters are qualified and rated by the United States Forest Service for this purpose. In order to comply with local laws regarding spark arresters, consult the engine distributor or the local Health and Safety Administrator.

Manufacturer's approval

This manual contains references to *approved* parts, attachments, and modifications. The following definitions apply:

- **Approved parts or attachments** are those either manufactured or provided by Wacker Neuson.
- **Approved modifications** are those performed by an authorized Wacker Neuson service center according to written instructions published by Wacker Neuson.
- **Unapproved parts, attachments, and modifications** are those that do not meet the approved criteria.

Unapproved parts, attachments, or modifications may have the following consequences:

- Serious injury hazards to the operator and persons in the work area
- Permanent damage to the machine which will not be covered under warranty

Contact your Wacker Neuson dealer immediately if you have questions about approved or unapproved parts, attachments, or modifications.

PREVIEW - YOUFIXTHIS.COM

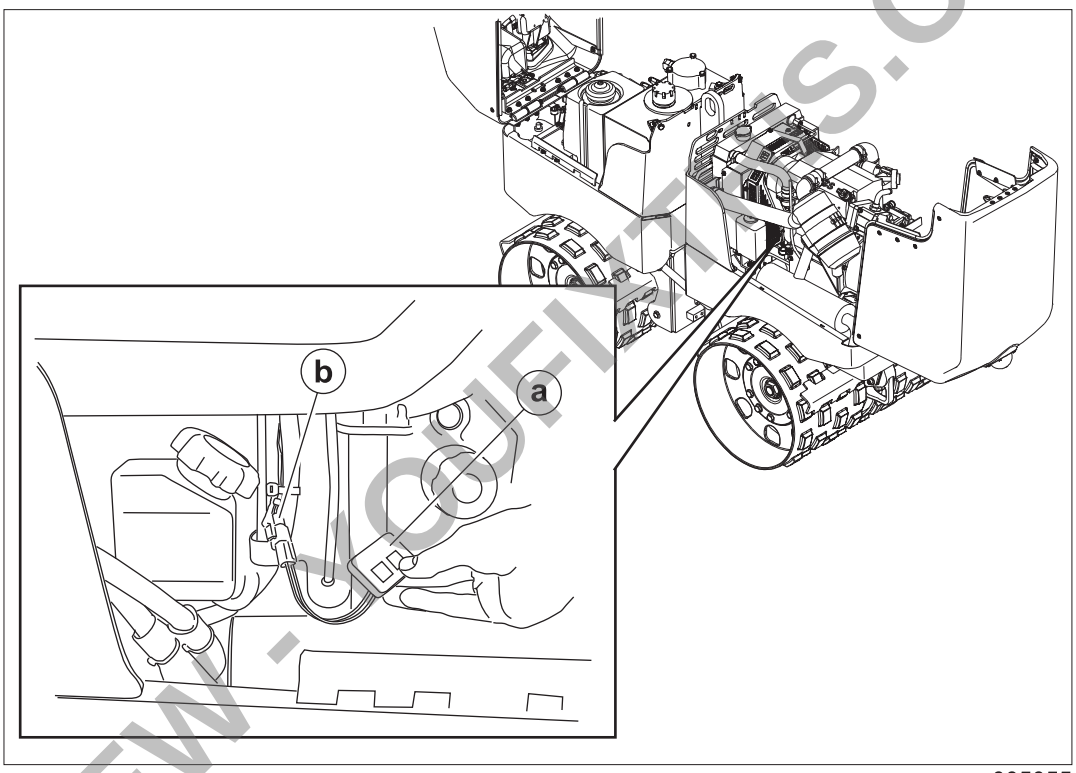
Download full manual at youfixthis.com

2.27 Connecting the Diagnostic Tool

Use the diagnostic tool to access the diagnostic capabilities of the Engine Control Module (ECM).

To connect the diagnostic tool:

1. Shut down the machine.
2. Open the engine compartment.
3. Remove the cap from the connector **(b)** on the wiring harness.
4. Plug the diagnostic tool **(a)** into the wiring harness.



wc_gr005055

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Task	See topic	No.
4. Check the function of the exciter motors.	*Checking the Function of the Exciter Motors*	6.9

Poor vibration

Task	See topic	No.
1. Check the function of the transmitter module.	*Checking the Function of the Transmitter Module*	6.3
2. Check the function of the decoder module and the vibration solenoids.	*Checking the Function of the Decoder Module and the Vibration Solenoids*	6.4
3. Check engine rpm and vibrations per minute (vpm).	*Checking Engine RPM*	6.10
4. Check the valves of the manifold.	*Checking the Valves of the Manifold*	6.6
5. Check hydraulic pressures.	*Checking Hydraulic Pressure of the Vibration System*	6.7
6. Check function of the exciter motors.	*Checking the Function of the Exciter Motors*	6.9

Vibration doesn't turn off

Task	See topic	No.
1. Check the function of the transmitter module.	*Checking the Function of the Transmitter Module*	6.3
2. Check the function of the decoder module and the vibration solenoids.	*Checking the Function of the Decoder and the Vibration Solenoids*	6.4
3. Check the valves of the manifold.	*Checking the Valves of the Manifold*	6.6

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

8.5 Checking the Hydraulic Pressure of the Steering Circuit

Requirements

- Machine must be able to start
- 3,000-psi pressure gauge

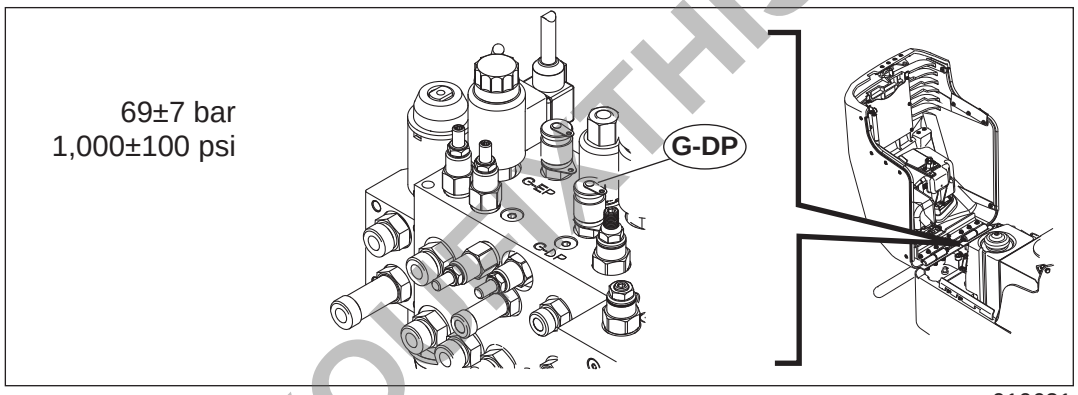
Background

The Steering Pressure Relief Valve (SPRV) is located inside the manifold. It is set to relieve pressure at 69 bar (1,000 psi). If it is malfunctioning, it can cause the steering system to act sluggishly.

Procedure

Perform the procedure below to check the hydraulic pressure of the steering circuit.

1. Start the machine and allow it to warm up for at least 10 minutes.
2. Shut down the machine.
3. Locate port **G-DP**.



wc_gr010631

4. Connect a 3,000-psi pressure gauge to port G-DP.
5. Start the machine.
6. Move the joystick to the full left position; while doing so, measure the hydraulic pressure.

Is approximately 69 bar (1,000 psi) measured?

Yes ____	No ____
The SPRV and the orifice OR are OK. Check the cylinder for binding.	Check the function of the steering valve.

Result

The hydraulic pressure of the steering system has now been checked.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

9.27 Removing the Fuel Tank

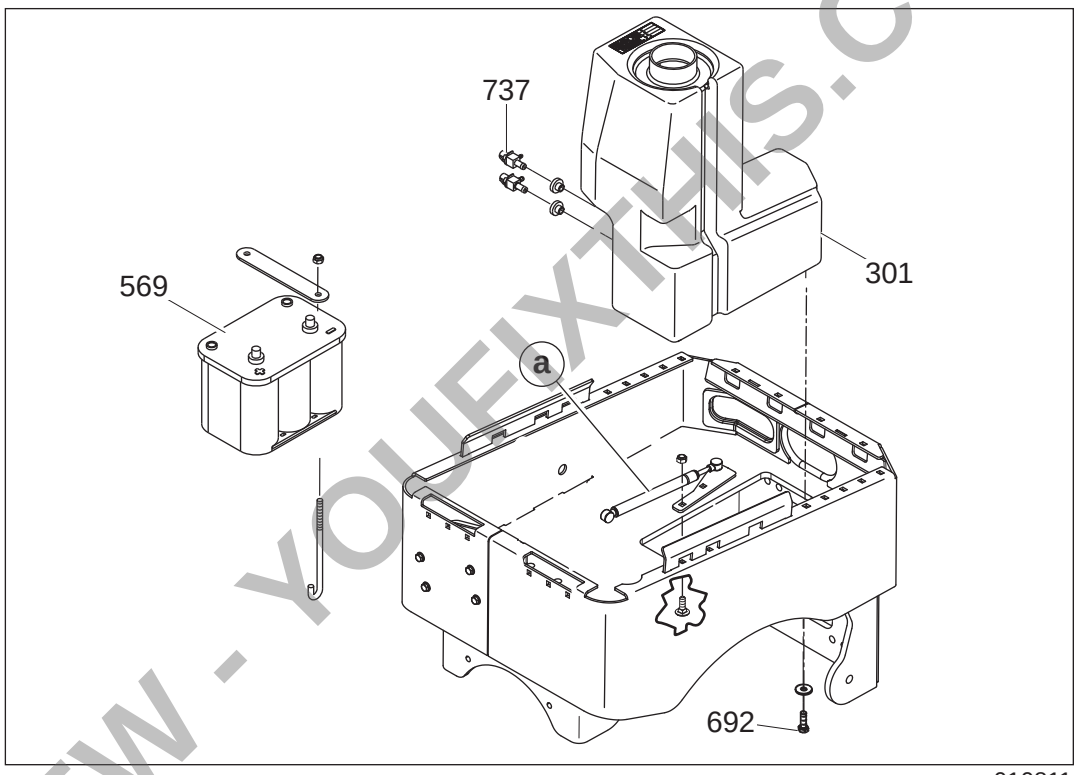
Requirements
- Hydraulic tank removed
- Battery removed.

Optional
- Fuel tank drained
- Right-side rear drum removed

Procedure

Perform the procedure below to remove the fuel tank.

1. Remove the air cylinder and bracket **(a)**.



wc_gr010811

2. Remove the battery (569).
3. Remove the hydraulic tank. See topic *Removing the Hydraulic Tank*.
4. Drain the fuel tank (301).
5. Remove the right-side rear drum. See topic *Removing A Drum*.
6. Close the fuel cocks (737) and disconnect the fuel hoses.
7. Remove the screws (692) that hold the fuel tank to the machine and lift the fuel tank from the machine.

Result

The fuel tank has now been removed.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 12 of 224 pages

The full manual includes:

- All 224 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Wacker Neuson RT 56 SC-2, RT 82 SC-2, RTx Repair Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual