

KATSU Tools 318927

KATSU Tools 318927 Water Pipe Pressure Tester Pump Instruction Manual

Model: 318927

1. INTRODUCTION

This manual provides essential instructions for the safe and effective operation, assembly, and maintenance of your KATSU Tools 318927 Water Pipe Pressure Tester Pump. Please read this manual thoroughly before use and retain it for future reference.

The KATSU Tools 318927 is a superior quality brass pump designed for testing the pressure integrity of water pipe installations. It features a durable brass pump body, copper cylinder and valves, and a 1.8m connection hose with BSP 1/2" end threading and M14 x 1.5 male threading for the gauge. Simple assembly is required before first use.

2. SAFETY INFORMATION

WARNING: Always follow basic safety precautions to reduce the risk of injury or damage.

- Ensure all connections are secure before applying pressure.
- Do not exceed the maximum rated pressure of the pump or the system being tested.
- Wear appropriate personal protective equipment, such as safety glasses.
- Keep children and unauthorized personnel away from the work area.
- Inspect the pump and hose for any damage before each use. Do not use if damaged.
- Release pressure slowly and carefully after testing.

3. PACKAGE CONTENTS

Verify that all components are present upon unpacking:

- Pressure Tester Pump Unit (with reservoir)
- Connection Hose (1.8m, black)
- Pressure Gauge
- Operating Handle
- Assembly Hardware (if applicable)



Image 1: The KATSU Tools 318927 Water Pipe Pressure Tester Pump, showing the main unit with reservoir, handle, gauge, and connection hose.

4. ASSEMBLY AND SETUP

The pump requires simple assembly before first use. Refer to the diagram below for component identification and assembly steps.

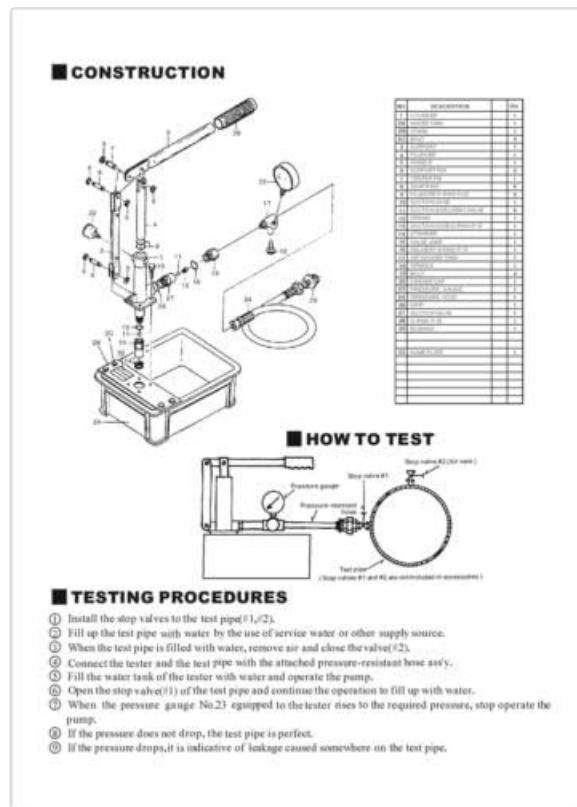


Image 2: Assembly diagram and testing procedures. The top section illustrates the pump's construction with numbered parts, and the bottom section details the testing process.

Assembly Steps:

1. Attach the operating handle to the pump mechanism. Ensure it is securely fastened.
2. Connect the pressure gauge to the designated port on the pump. Hand-tighten, then use a wrench for a snug fit, being careful not to overtighten.
3. Connect the black connection hose to the pump's outlet. Ensure a tight seal to prevent leaks during operation.
4. Ensure all other connections, such as the valve for releasing pressure, are properly seated.



Image 3: A close-up view of the pressure release valve, highlighting its knurled brass knob for manual operation.

5. OPERATING INSTRUCTIONS

Follow these steps for effective pressure testing of water pipe installations.

Testing Procedures (Refer to Image 2 for visual guidance):

1. **Prepare the Test Pipe:** Install stop valves to the test pipe (e.g., 1/2" BSP).
2. **Fill the Pipe:** Fill the test pipe with water from a service water or other supply source.
3. **Remove Air:** When the test pipe is filled with water, remove any trapped air and close the valve(s).
4. **Connect the Tester:** Connect the pressure tester pump to the test pipe using the attached pressure-resistant hose.
5. **Fill the Tester Tank:** Fill the water tank of the tester with water and operate the pump handle.
6. **Prime the Pump:** Open the stop valve(s) of the test pipe and continue operating the pump to fill it up with water.
7. **Apply Pressure:** When the pressure gauge (labeled as No. 23 in the diagram) rises to the required pressure, stop operating the pump.
8. **Check for Leaks:**

- If the pressure does not drop, the test pipe is considered perfect.
- If the pressure drops, it indicates a leakage somewhere on the test pipe. Inspect all connections and pipe sections thoroughly.

9. **Release Pressure:** After testing, slowly open the pressure release valve to depressurize the system before disconnecting the pump.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your pressure tester pump.

- **Cleaning:** After each use, drain any remaining water from the reservoir and hose. Clean the pump body and components with a damp cloth. Do not use abrasive cleaners.
- **Storage:** Store the pump in a clean, dry place, away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically inspect the hose for cracks or wear, and check all connections for tightness. Replace worn parts as necessary.
- **Lubrication:** Lightly lubricate moving parts, such as the pump piston, with a suitable lubricant if operation becomes stiff.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Pump does not build pressure.	Air in the system; loose connections; worn seals; insufficient water in reservoir.	Ensure system is fully purged of air. Check all hose and gauge connections for tightness. Inspect and replace seals if necessary. Ensure reservoir has adequate water.
Pressure drops quickly after pumping.	Leak in the test pipe or connections; faulty check valve in pump.	Thoroughly inspect the entire test system for leaks. Check the pump's internal check valve for proper function.
Water leaks from pump connections.	Loose connections; damaged O-rings or seals.	Tighten all connections. Replace any damaged O-rings or seals. Consider using PTFE tape on threaded connections if needed.
Handle is stiff or difficult to operate.	Lack of lubrication; debris in pump mechanism.	Lubricate moving parts with a suitable lubricant. Clean the pump mechanism to remove any debris.

8. SPECIFICATIONS

Feature	Detail
Model Number	318927

Feature	Detail
Brand	KATSU Tools
Material	Brass (pump body, cylinder, valves), Aluminium (general construction)
Connection Hose Length	1.8 meters
Hose End Threading	BSP 1/2"
Gauge Male Threading	M14 x 1.5
Item Weight	3.12 Kilograms
Package Dimensions	32.29 x 21.1 x 16.2 cm
UPC	519204396647

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the retailer where the product was purchased or visit the official KATSU Tools website. Keep your proof of purchase for any warranty claims.

For additional resources and product information, you may visit the [KATSU Tools brand page on Amazon](#).