

4. Connect the input of the pressure instrument under test to the test pressure port (item ②).
5. Unscrew the pressure release knob (item ⑨) to vent pressure from the pump.
6. Zero the pressure module. The zeroing procedure depends on which pressure module and calibrator you are using.
7. Turn the fine adjustment knob (item ④) to mid-range.
8. Tighten the pressure release knob finger tight.
9. Set the handle stroke length to maximum.
10. Prime pump as described under "Priming the Pump".
11. Shorten handle-stroke length to reduce pumping force.

⚠ Caution

Pressure may rise rapidly if the pressurized volume is small.

12. Compress the handles to apply incrementally higher pressure.
13. For fine pressure adjustment, use the fine adjustment knob.

Priming the Pump

To prime the pump:

1. Connect the pressure module and calibration hose (Fluke HTH or equivalent) as shown in the drawing. Be sure to use several wraps of Teflon tape on all threaded connections to insure a proper seal.
2. Fill the reservoir approximately 2/3 with either de-ionized water or mineral oil.
3. Before connecting the other end of the calibration hose to the device under test, raise the open end of the hose to a level above the fluid in the reservoir.
4. Close the pressure release knob and begin pumping the HTP until fluid begins to come out of the hose. Note that depending on the volume of the hose this may take 50 or more strokes.
5. Once the fluid starts to flow out of the hose, connect to the unit under test.
6. When testing is complete, disconnect the hose from the unit under test. If using the Fluke HTH hose, place the plastic sealing cap back over the exposed end of the hose to help retain the fluid until the pump is used again. Retaining the fluid in the hose will greatly reduce the number of strokes required to re-prime the pump.

Replacement Parts

Rebuild Kit, Fluke PN 2812606

Hydraulic Fluid Reservoir Rebuild Kit, Fluke PN 2844341

Handle Assembly Rebuild Kit, Fluke PN 2844352

LIMITED WARRANTY AND LIMITATION OF LIABILITY

This Fluke product will be free from defects in material and workmanship for one year from the date of purchase. This warranty does not cover fuses, disposable batteries, or damage from accident, neglect, misuse, alteration, contamination, or abnormal conditions of operation or handling. Resellers are not authorized to extend any other warranty on Fluke's behalf. To obtain service during the warranty period, contact your nearest Fluke authorized service center to obtain return authorization information, then send the product to that Service Center with a description of the problem.

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FLUKE®

Fluke-700HTP-1 **Hydraulic Test Pump**

Instruction Sheet

Introduction

The Fluke-700HTP-1 Hydraulic Test Pump (hereafter called the pump) is a portable source of high pressure. The pump has the following specifications:

- Maximum pressure: 690 bar (10,000 psi)
- Hydraulic media: distilled water or mineral based hydraulic oil
- Wetted materials: 303 stainless steel, aluminum, polyurethane, PTFE, nitrile, and nylon
- Weight: 1.29 lb (.58 kg)
- Dimensions: length 9.5 in (241 mm), width 6.1 in (155 mm), depth 2.6 in (66 mm)

Box Contents

- Model 700HTP-1 Hydraulic Test Pump with 1/4 in NPT tee installed
- (2) 1/4 in NPT male to 1/4 in BSP female adapter
- 1/4 in NPT male to 1/4 in NPT male fitting
- Instruction Sheet

Contacting Fluke

To contact Fluke or for service, call one of the following telephone numbers:

USA: 1-888-44-FLUKE (1-888-443-5853)

Canada: 1-800-36-FLUKE (1-800-363-5853)

Europe: +31 402-675-200

Japan: +81-3-3434-0181

Singapore: +65-738-5655

Anywhere in the world: +1-425-446-5500

Or, visit Fluke's Web site at www.fluke.com.

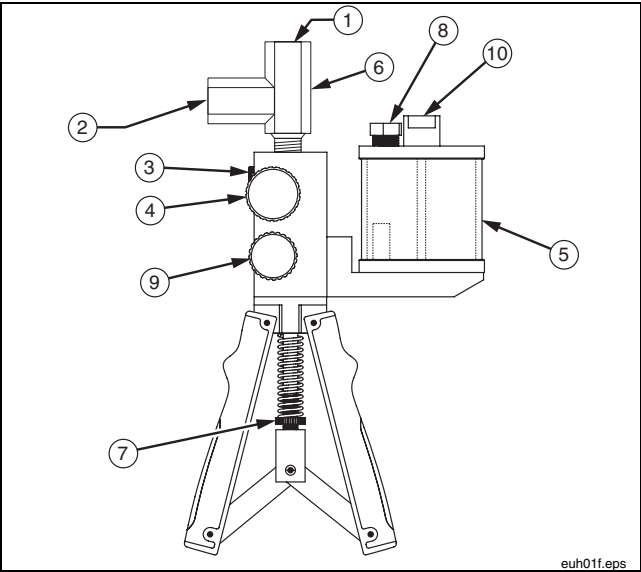
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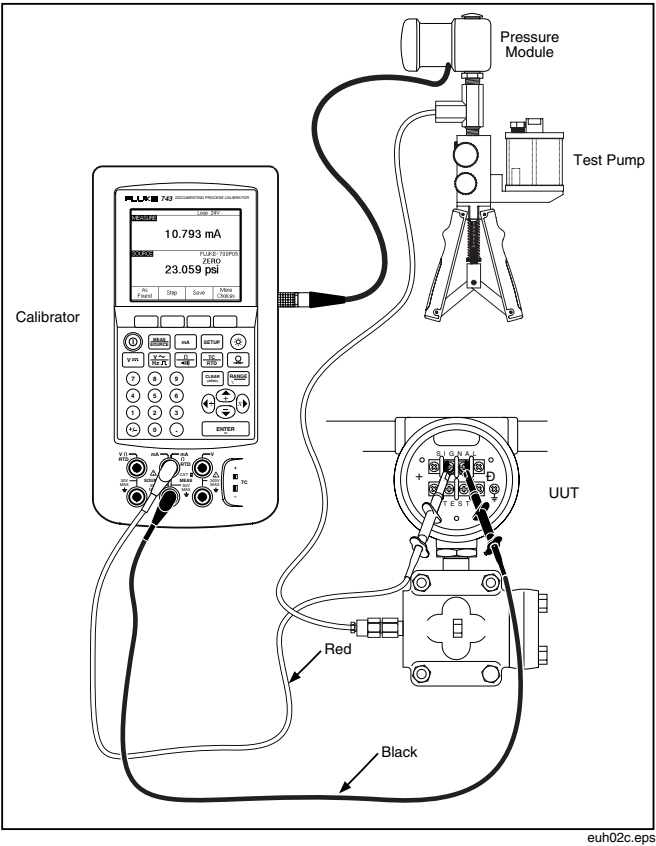
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Features



No.	Item	Function
①	Master instrument port	Port for Fluke 700 Series Pressure Module, 1/4 in NPT female
②	Test pressure port	Port for pressure instrument under test, 1/4 in NPT female
③	Pressure relief valve port	Port for an optional Fluke 700PRV-1 Pressure Relief Valve (plugged)
④	Fine adjustment knob	Allows you to precisely adjust the applied pressure
⑤	Hydraulic fluid reservoir	Holds 100 cc of hydraulic fluid: mineral based hydraulic oil or distilled water.
⑥	1/4 NPT tee	For master and test ports
⑦	Stroke adjust	Use to adjust handle stroke
⑧	Reservoir filler plug	Remove this to fill hydraulic fluid reservoir. Reseal before you pump.
⑨	Pressure release knob	Allows you to release pressure in a controlled manner
⑩	Reservoir nut	Remove nut to clean reservoir

Using the Test Pump



Warning

To avoid a violent release of pressure, always depressurize the system slowly using the pressure release knob (item ⑨, left) before you detach any pressure line from the pump. Do not connect the pump to an external pressure source.

Caution

If you are using the pump with a pressure module or pressure instrument that will be damaged by pressures of 690 bar (10,000 psi), you can protect the equipment by installing a properly set relief valve in the system or an optional Fluke 700PRV-1 Pressure Relief Valve on the pump.

1. Attach a 700 Series Pressure Module (hereafter called "pressure module") to the master instrument port ① for all modules except the 700P High Pressure Modules. To adapt to the 700P29, P30, or P31 Series High Pressure Modules, install a male 1/4-in NPT Adapter. Use Teflon tape or other sealing media on NPT thread connections to eliminate leaks.
2. Remove fill cap and fill reservoir approximately 1/2 to 2/3 full.
3. Connect the pressure module to the calibrator as shown in the figure.