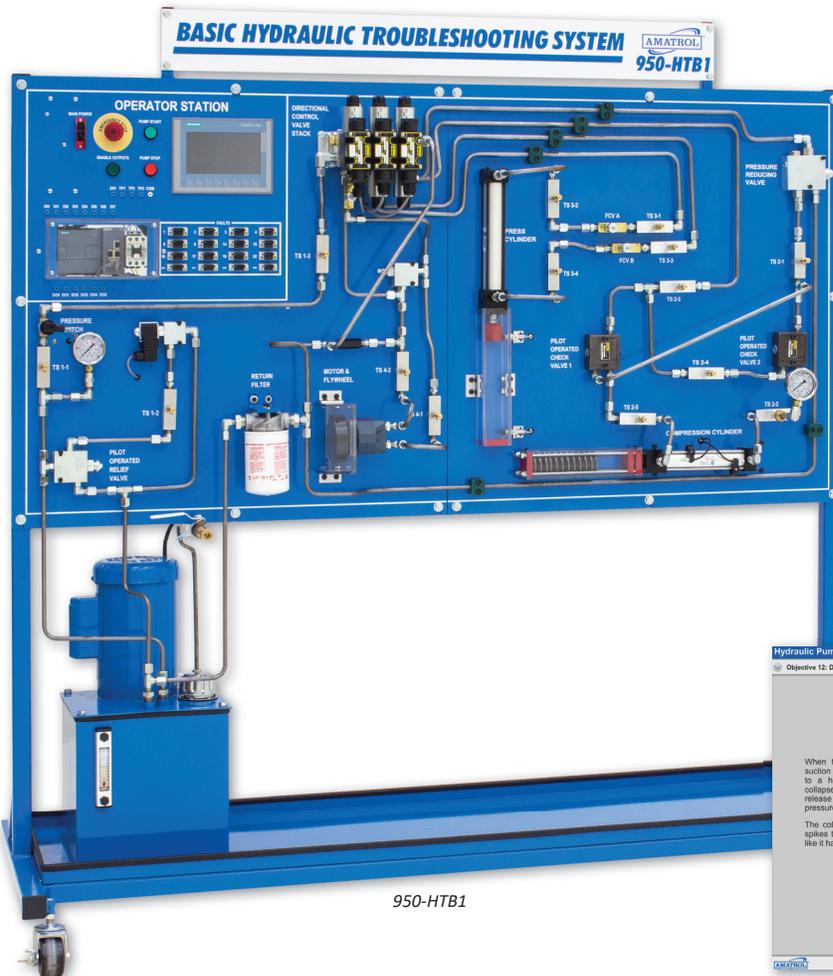


Basic Hydraulic Troubleshooting Learning System

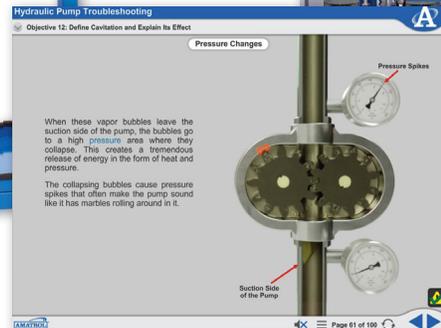
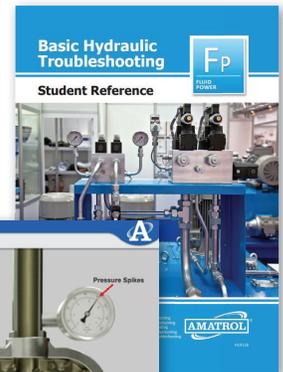
950-HTB1

Fp

FLUID
POWER



950-HTB1



Interactive Multimedia and Student Reference Guide

Learning Topics:

- Hydraulic Pump Troubleshooting
- Flow Measurement
- Cavitation and Pseudo-Cavitation
- Hydraulic Actuators Troubleshooting
- Cylinder Cushions and Boots
- Cylinder Troubleshooting
- Motor Troubleshooting
- Directional Control Valve Troubleshooting
- Hydraulic Valves Troubleshooting
- Systems-Level Faults Troubleshooting
- Machine Sequence Faults Troubleshooting
- Machine Performance Faults Troubleshooting

Amatrol's Basic Hydraulic Troubleshooting Learning System (950-HTB1) teaches learners how to troubleshoot hydraulic systems and their components, such as hydraulic motors, directional control valves, and cylinders. The 950-HTB1 combines comprehensive curriculum with real-world equipment to create a valuable learning experience for maintenance technicians across a wide variety of industries. It also provides a strong foundation for those seeking important industry-standard certifications.

The 950-HTB1 features over 35 faults for learners to practice troubleshooting hydraulic pumps, actuators, valves, and systems, as well as directional control valves. The system includes durable, industry-standard components, such as a Siemens S71200 PLC, a hydraulic power unit, a flow meter, a pressure gauge, and hydraulic actuator branches.



Technical Data

Complete technical specifications available upon request.

Mobile Workstation with Drip Pan Operator Station

- Siemens S71200 PLC w/ HMI
- Discrete I/O
- Lockout/Tagout Kit
- Control Power Pushbutton
- Emergency Stop

Hydraulic Power Distribution

- Supply and Return Lines
- Pressure Switch
- Pilot-Operated Relief Valve
- Direct-Operated Relief Valve

Hydraulic Actuator Branches

- Directional Control Valves (3)
- Double-Acting Cylinders (2)
- Proximity Switches (3)
- Pressure-Reducing Valve
- Pilot-Operated Check Valves (2)
- Magnetic Reed Sensors (2)
- Troubleshooting Test Valves
- Motor with Flywheel
- Return Filter

Hydraulic Power Unit

- Manual Fault Insertion Plug Set
- Flow Meter Assembly with Tank Drain Nozzle
- Pressure Tap Gauge Assembly
- Multimedia Curriculum (M19126)
- Instructor's Guide (C19126)
- Installation Guide (D19126)
- Student Reference Guide (H19126)

Additional Requirements:

- Hand Tool Package (17489)
- Hydraulic Oil (16391)
- Computer (Visit www.amatrol.com/support/computer-requirements-for-details.)

Utilities:

- Electricity (120-220VAC/50-60Hz/1 phase)

Study Basic Hydraulic Troubleshooting with Real-World Components



Troubleshooting with Real-World Components

The 950-HTB1 features a large array of industrial-grade components on a mobile workstation, including a Siemens S71200 PLC with HMI, a hydraulic power supply, supply and return lines, motor with flywheel, proximity switches, magnetic reed sensors, and a wide variety of valves. Learners will use these real-world components to practice hands-on troubleshooting skills they will use on the job. Some of these skills include using an in-circuit test to troubleshoot a fixed-displacement pump, adjusting a cylinder cushion, troubleshooting a check valve, testing a hydraulic system by measuring fluid flow, and troubleshooting vibration in a hydraulic system.

Get Hands-On Practice Troubleshooting Over 35 Faults On Valves, Pumps, and Motors

The 950-HTB1 features over 35 manually-inserted faults to help learners understand and practice troubleshooting common problems found in hydraulic systems. Sample faults include: motor starter failure, defective pump, worn cylinder seals, blocked flow control valves, and blocked inlet ports.



950-HTB1 Operator Station

Engaging, Highly-Interactive Multimedia

Amatrol's curriculum features a highly-interactive, multimedia format that includes stunning 3D graphics and videos, voiceovers of all text, and interactive quizzes and exercises designed to appeal to learners with different learning styles. For example, the 950-HTB1's curriculum takes a comprehensive approach to hydraulic troubleshooting, covering both component-level faults and system-wide problems. Users will learn about a wide variety of topics, including pressure test points, flow measurement, cavitation and pseudo-cavitation, and troubleshooting hydraulic pumps, cylinders, motors, valves, and systems.



Interactive Multimedia with 3D Graphics

Student Reference Guide

A sample copy of the Basic Hydraulic Troubleshooting Student Reference Guide is also included with the system for your evaluation. Sourced from the system's curriculum, the Student Reference Guide takes the entire series' technical content contained in the learning objectives and combines them into one perfectly-bound book. Student Reference Guides supplement this course by providing a condensed, inexpensive reference tool that learners will find invaluable once they finish their training, making it the perfect course takeaway.

