

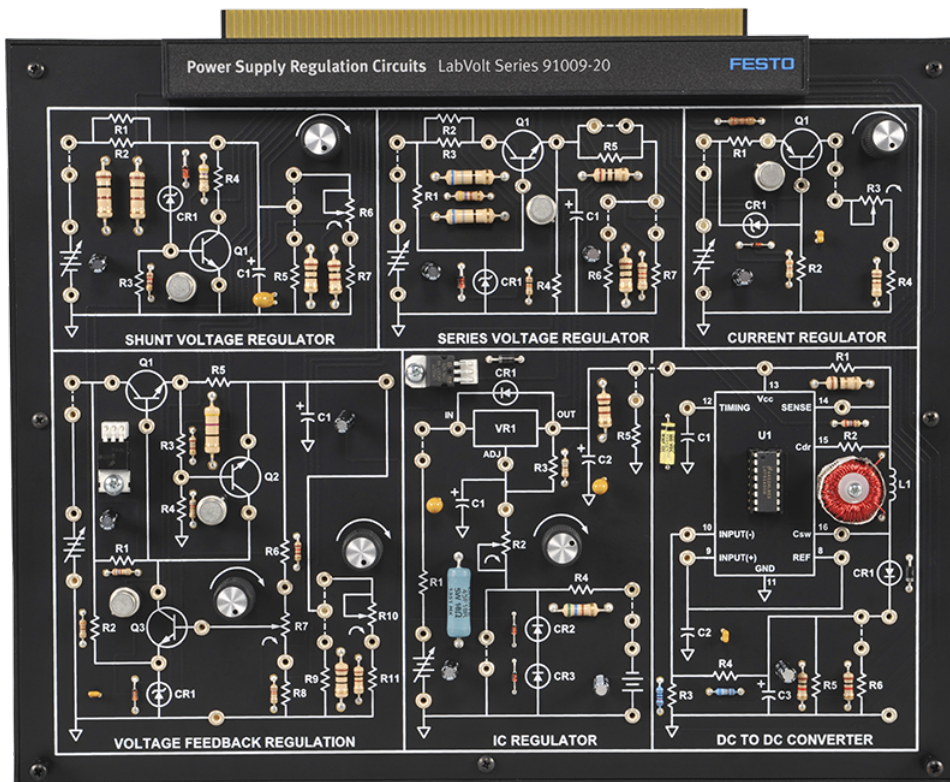
Power Supply Regulation Circuits

580973 (91009-20)



LabVolt Series

Datasheet



* The product images shown in this document are for illustration purposes; actual products may vary. Please refer to the Specifications section of each product/item for all details. Festo Didactic reserves the right to change product images and specifications at any time without notice.

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General Description

The Power Supply Regulation Circuits module is used to study power supply regulation circuits in a hands-on learning environment.

Through the study of the following six circuit blocks, the trainee will gain the skills necessary to be able to successfully troubleshoot the following power supply circuit malfunctions:

- Shunt Voltage Regulator
- Series Voltage Regulator
- Current Regulator
- Voltage Feedback Regulation
- IC Regulation
- DC to DC Converter circuitry

This board is available in the following language variants:

- English variant: 91009-20
- French variant: 91009-21
- Spanish variant: 91009-22

Topic Coverage

- Circuit Location and Identification and Power Supply Regulator Introduction
- Shunt and Series Regulators Operation, Line and Load Regulation
- Voltage Feedback Regulator Operation, Load Regulation
- Foldback Current Limiting Active Protection Circuit
- Current Regulator Operation, Line and Load Regulation
- Three-Pin IC Regulator Operation, Voltage Regulation, Current Regulation and Power Efficiency
- DC to DC Converter Operating Characteristics, Voltage Regulation and Efficiency
- Troubleshooting Basics and Troubleshooting Power Supply Regulation Circuits

Optional Manual(s)

Qty	Description	Model number
1	Power Supply Regulators (Workbook) _____	589697 (91568-P0) ¹
1	Power Supply Regulators (Workbook) _____	580712 (91568-Q0)
1	Power Supply Regulators (Workbook (Instructor)) _____	580714 (91568-R0)

¹ The manuals Power Supply Regulation Circuits, both the student manual and instructor guide, are also available in computer-based format.

Reflecting the commitment of Festo Didactic to high quality standards in product, design, development, production, installation, and service, our manufacturing and distribution facility has received the ISO 9001 certification.

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