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› fischertechnik Robotics TXT 4.0 Base Set Robot Instruction Manual

## fischertechnik 559888

# fischertechnik Robotics TXT 4.0 Base Set Robot Instruction Manual

Model: 559888

## INTRODUCTION

This manual provides comprehensive instructions for the assembly, operation, and maintenance of the fischertechnik Robotics TXT 4.0 Base Set Robot. This set is designed for educational purposes, focusing on robotics, programming, and control systems.

The Robotics TXT 4.0 Base Set is an advanced building kit that enables users to explore measurement, control, and programming concepts. It includes a camera with image processing capabilities, various sensors, motors, and the ROBOTICS TXT 4.0 controller for programming and control.

**Safety Information:** Use under adult supervision.

## PACKAGE CONTENTS

The fischertechnik Robotics TXT 4.0 Base Set includes 160 pieces. Key components are:

- Robotics TXT 4.0 Controller
- ROBO Pro Coding software
- Accu Set (rechargeable battery)
- 2 Encoder Motors
- USB Camera
- Ultrasonic Sensor
- Tracking Sensor
- 2 Push Buttons
- 2 LEDs
- Phototransistor
- Various building blocks and connectors

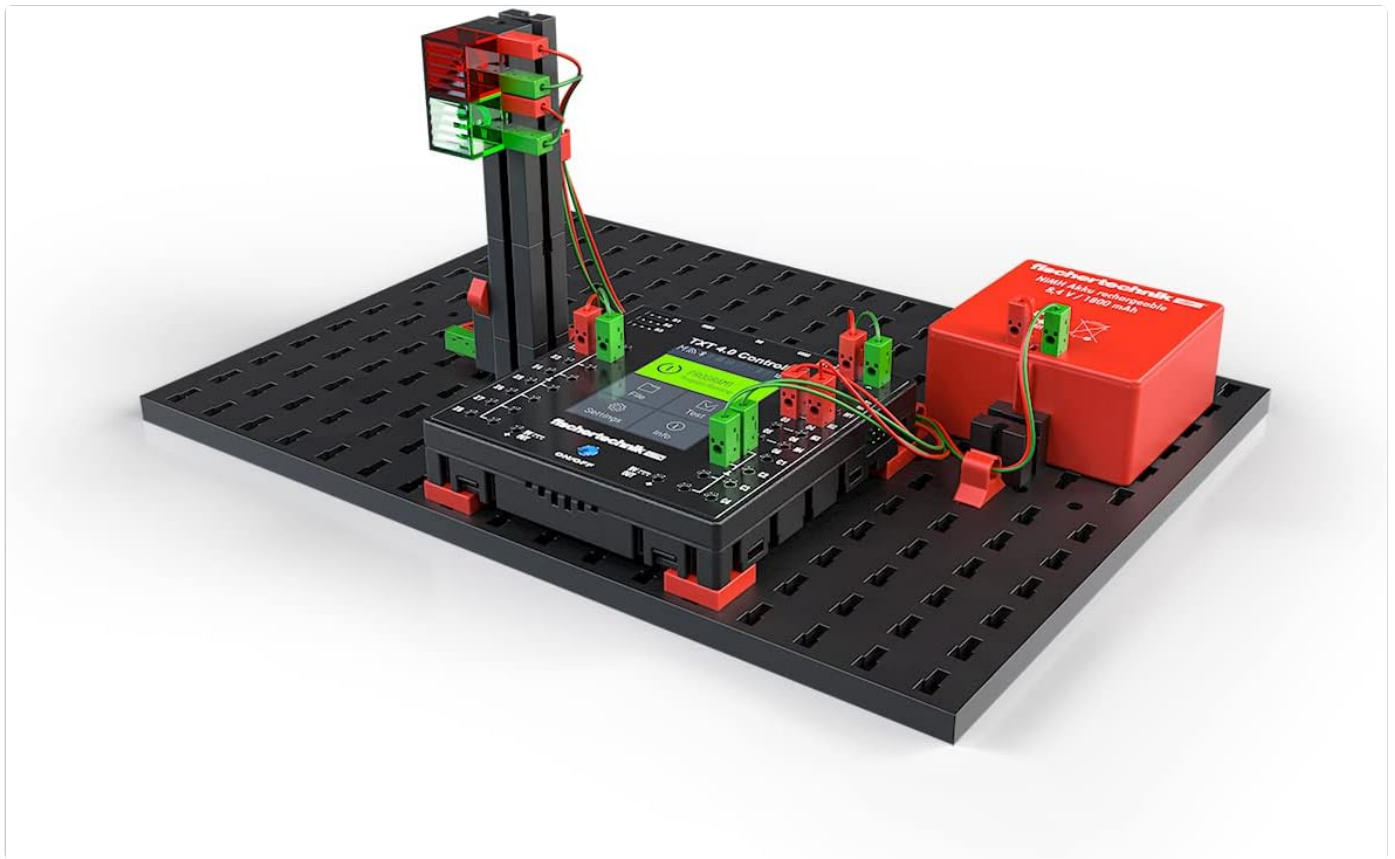


Image: The fischertechnik Robotics TXT 4.0 Base Set components neatly organized in a multi-compartment storage box, alongside the product's outer packaging which displays various robot models.

## SETUP AND ASSEMBLY

The fischertechnik Robotics TXT 4.0 Base Set allows for the construction of 12 different models, including pedestrian traffic lights, a barrier, a barcode scanner, and mobile driving robots. Refer to the included building instructions for detailed step-by-step assembly guides for each model.

### General Assembly Principles:

1. **Component Identification:** Familiarize yourself with all components listed in the package contents.
2. **Structural Integrity:** Ensure all connections are secure and stable to prevent models from collapsing during operation.
3. **Wiring:** Connect sensors, motors, and LEDs to the TXT 4.0 Controller using the provided cables. Pay attention to correct polarity and port assignments as indicated in the model-specific instructions.
4. **Power Supply:** Connect the Akku Set (rechargeable battery) to the TXT 4.0 Controller. Ensure it is fully charged before initial use.

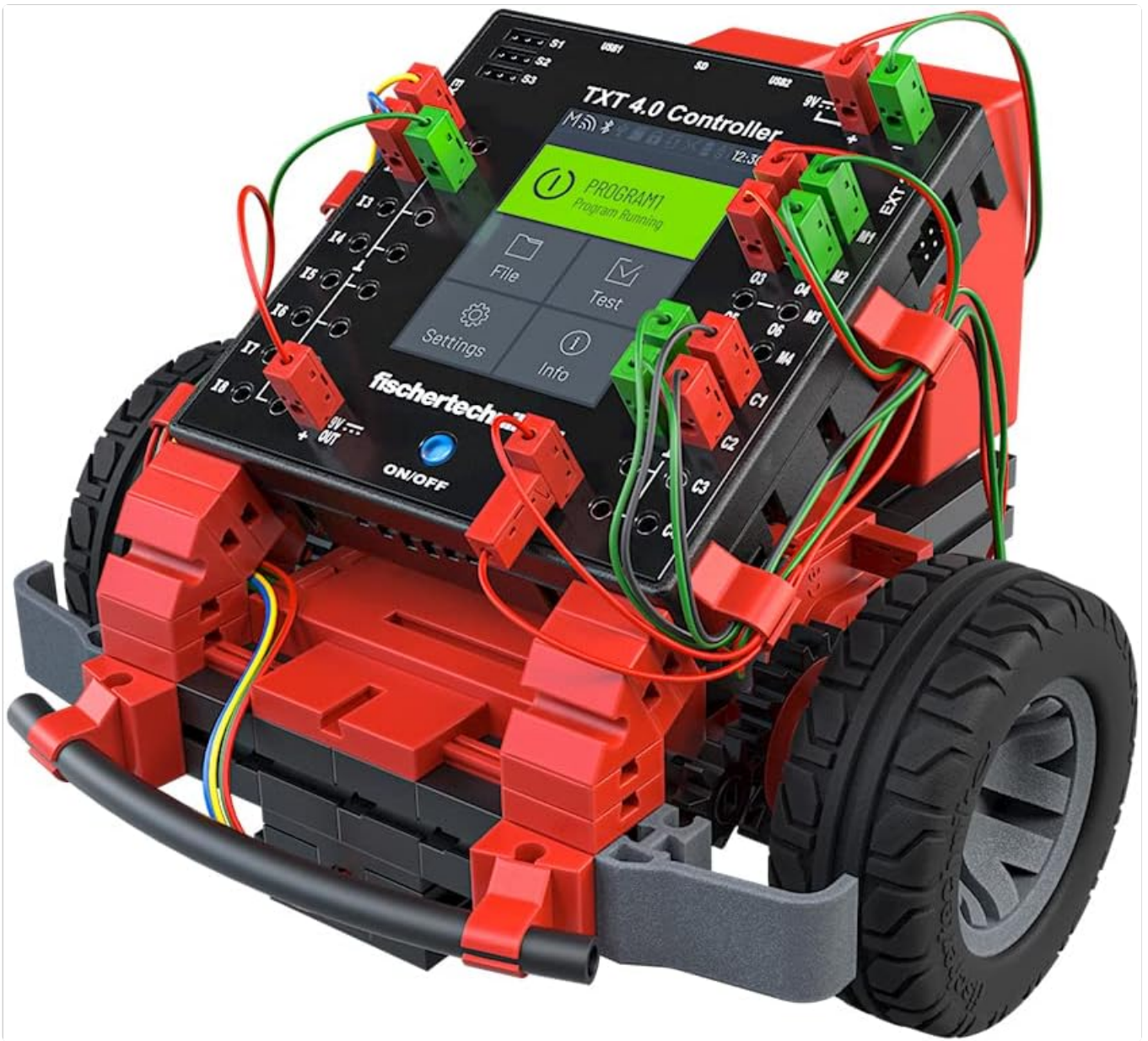


Image: A fully assembled fischertechnik robot, showcasing the TXT 4.0 Controller as its central unit, connected to motors and sensors, ready for operation.

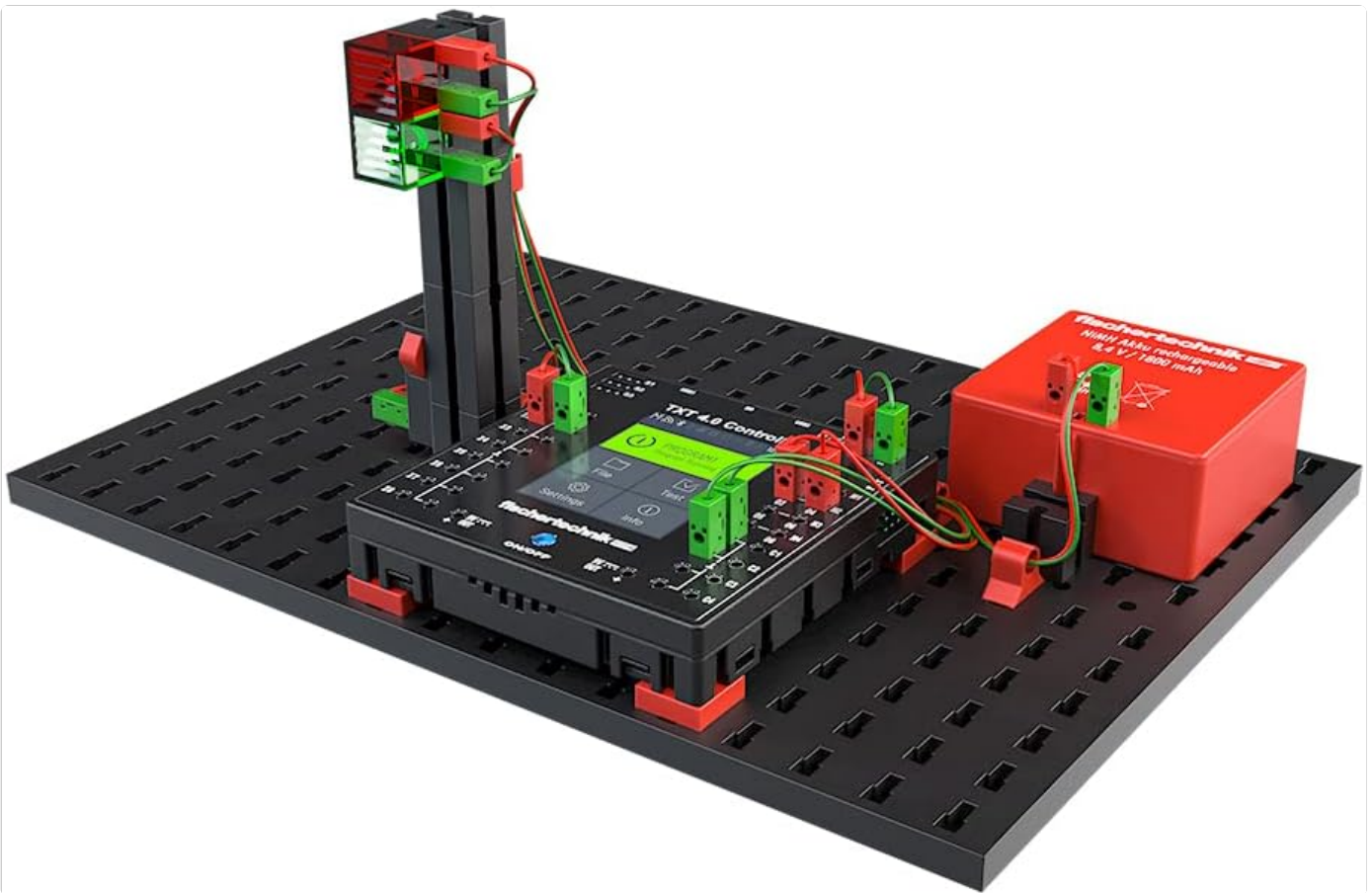


Image: The fischertechnik TXT 4.0 Controller positioned on a black base plate, demonstrating connections to a red battery pack and a sensor tower, illustrating a typical setup configuration.

## OPERATING INSTRUCTIONS

### Powering On and Off:

- To power on the TXT 4.0 Controller, press and hold the "ON/OFF" button located on the front panel until the screen illuminates.
- To power off, press and hold the "ON/OFF" button again until the shutdown sequence completes.

### Software and Programming:

The ROBO Pro Coding software is essential for programming the TXT 4.0 Controller. It supports various programming environments:

- **Beginners:** Utilize ready-made sample programs provided within the software.
- **Advanced Users:** Program directly in a Blockly programming environment.
- **Professionals:** Use Python for more complex programming tasks.

Connect the TXT 4.0 Controller to your computer via USB or Wi-Fi to upload programs. The controller's screen allows for file management, testing, and accessing settings and information.

### Mobile Control:

An additional application (Android/iOS) allows for remote control of the TXT 4.0, including voice recognition capabilities. Refer to the software documentation for details on connecting and using the mobile application.

## MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your fischertechnik Robotics TXT 4.0 Base Set.

- **Cleaning:** Use a soft, dry cloth to clean the components. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store all components in the provided storage box or a similar container to prevent loss and damage. Keep the set in a cool, dry place away from direct sunlight.
- **Battery Care:**
  - Charge the Accu Set regularly, even if not in use, to maintain battery health.
  - Do not overcharge or completely discharge the battery.
  - If storing for extended periods, charge the battery to approximately 50% capacity.
- **Software Updates:** Periodically check the fischertechnik website for updates to the ROBO Pro Coding software and TXT 4.0 Controller firmware to ensure compatibility and access to new features.

## TROUBLESHOOTING

This section addresses common issues you might encounter with your fischertechnik Robotics TXT 4.0 Base Set.

Problem	Possible Cause	Solution
Controller does not power on.	Battery is not charged or not connected properly.	Ensure the Accu Set is fully charged and securely connected to the TXT 4.0 Controller.
Motors are not responding.	Incorrect wiring; program error; motor damaged.	Check motor connections to the controller. Verify your program logic. Test motors individually if possible.
Sensors are not providing readings.	Incorrect wiring; sensor port misconfiguration in software; sensor damaged.	Confirm sensor wiring and port assignments in ROBO Pro Coding. Ensure sensor is clean and unobstructed.
Software cannot connect to the controller.	USB cable issue; Wi-Fi connectivity problem; driver not installed.	Try a different USB port or cable. Check Wi-Fi network settings. Reinstall controller drivers if necessary.

For further assistance, refer to the comprehensive teaching material and experiments available for download from fischertechnik, or contact customer support.

## SPECIFICATIONS

Feature	Detail
Model Number	559888
Product Dimensions	18.31 x 31.5 x 12.6 inches
Item Weight	8.25 pounds
Recommended Age	10 years and up
Manufacturer	Fischertechnik

Feature	Detail
Included Components	Robotics TXT 4.0 Controller, ROBO Pro Coding software, Accu Set, 2 Encoder Motors, USB Camera, Ultrasonic Sensor, Tracking Sensor, 2 Push Buttons, 2 LEDs, Phototransistor, 160 total pieces.
Programming Environments	Blockly, Python, ready-made sample programs.
Control Options	ROBO Pro Coding software, Android/iOS mobile application (with voice recognition).

## WARRANTY AND SUPPORT

Specific warranty information for the fischertechnik Robotics TXT 4.0 Base Set is typically provided with the product packaging or available on the official fischertechnik website. Please refer to these resources for detailed warranty terms and conditions.

For technical support, spare parts, or additional inquiries, please visit the official fischertechnik website or contact their customer service department. Contact information can usually be found on the product packaging or their official website.

### Online Resources:

- [fischertechnik Official Website](#)
- [Downloads and Teaching Material](#) (for supplementary teaching information and experiments)