

fischertechnik TXT 4.0 Robotics Base Set



fischertechnik TXT 4.0 Robotics Base Set Instruction Manual

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fischertechnik TXT 4.0 Robotics Base Set



Product Information

Specifications

- **Product Name:** TXT 4.0 Controller
- **Components:** Steering, 3x Ultrasonic sensor, Rechargeable battery and charger, Encoder motor, USB camera, Micro servo 4,8/6V
- **Manufacturer:** fischertechnik GmbH
- **Address:** Klaus-Fischer-Str. 1, 72178 Waldachtal, Germany
- **Contact: Phone:** +49 74 43/12-43 69, Fax: +49 74 43/12-45 91,
- **Email:** info@fischertechnik.de
- **Website:** www.fischertechnik.de

Product Usage Instructions

Safety Information

- **Attention!** Risk of injury due to sharp edges and points on functional components! All components, especially moving parts, should be maintained and cleaned as necessary.

Power Source

- The product may only be used with one of the following Fischertechnik energy sources: Power Set or Art No.: 35537 Accu Pack 8.4V. Do not use 9V NiMH accu packs with this product.

Assembly Tips

- Refer to the provided assembly tips for guidance on putting together the components.

FAQ

Q: What type of batteries can be used with the TXT 4.0 Controller?

- **A:** The product is compatible with Fischertechnik energy sources such as the Power Set or Art No.: 35537 Accu Pack 8.4V. Do not use 9V NiMH accu packs.

Q: How should I clean and maintain the components?

- **A:** Ensure all components, especially moving parts, are cleaned and maintained as needed to ensure proper functionality and longevity of the product.

Q: Where can I find more information about STEM coding competitions?

- **A:** Visit the Fischertechnik website at www.fischertechnik.de/elearning-stem-coding-competition. for more details.

Software and accompanying pedagogical materials:

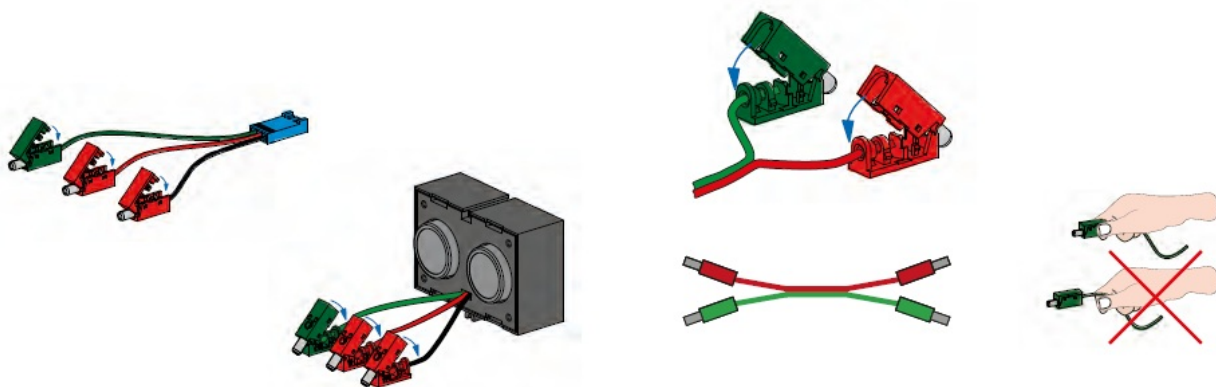
- On the Fischertechnik eLearning Portal, you will find:
- Installation instructions for ROBOPRO Coding App (iOS, Android, Windows, MacOS, Linux)
- Information on the TXT 4.0 Controller
- Accompanying pedagogical materials for instructional use
- Link to the eLearning Portal: <https://www.fischertechnik.de/elearning-stem-coding-competition>.



Spare parts list

	31 058 2 x		32 881 15 x		37 238 10 x		152 522 1 x
	31 060 10 x		35 049 8 x		37 468 10 x		152 621 1 x
	31 061 15 x		35 063 1 x		37 636 4 x		156 511 1 x
	31 411 1 x		35 065 2 x		38 240 6 x		163 205 4 x
	31 412 2 x		35 068 2 x		38 428 10 x		163 206 4 x
	31 413 2 x		35 537 1 x		122 900 1 x		173 067 1 x
	31 414 1 x		35 945 1 x		132 004 1 x		181 583 14 x
	31 843 2 x		35 969 6 x		132 290 1 x		181 584 18 x
	31 981 10 x		35 982 2 x		132 292 1 x		186 175 1 x
	31 982 25 x		35 998 2 x		133 009 3 x		522 460 1 x
	32 064 8 x		36 323 2 x		137 125 1 x		
	32 870 2 x		36 952 1 x		137 196 1 x		
	32 879 20 x		37 237 10 x		137 677 1 x		

Tips for assembly

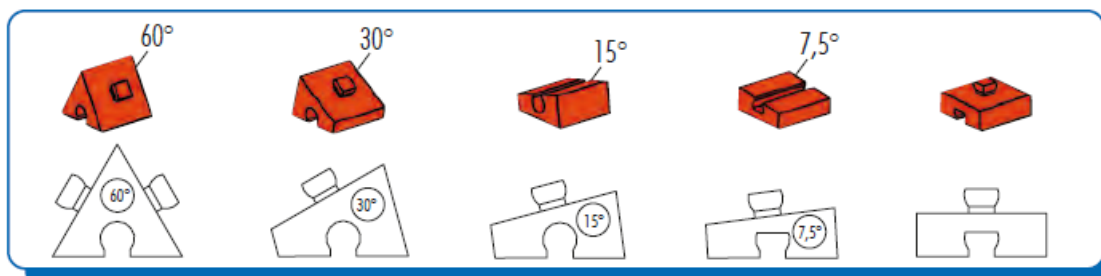


- Plugs and cables

- When mounting the tires, please pay attention to the direction of the tread, left and right.



- left



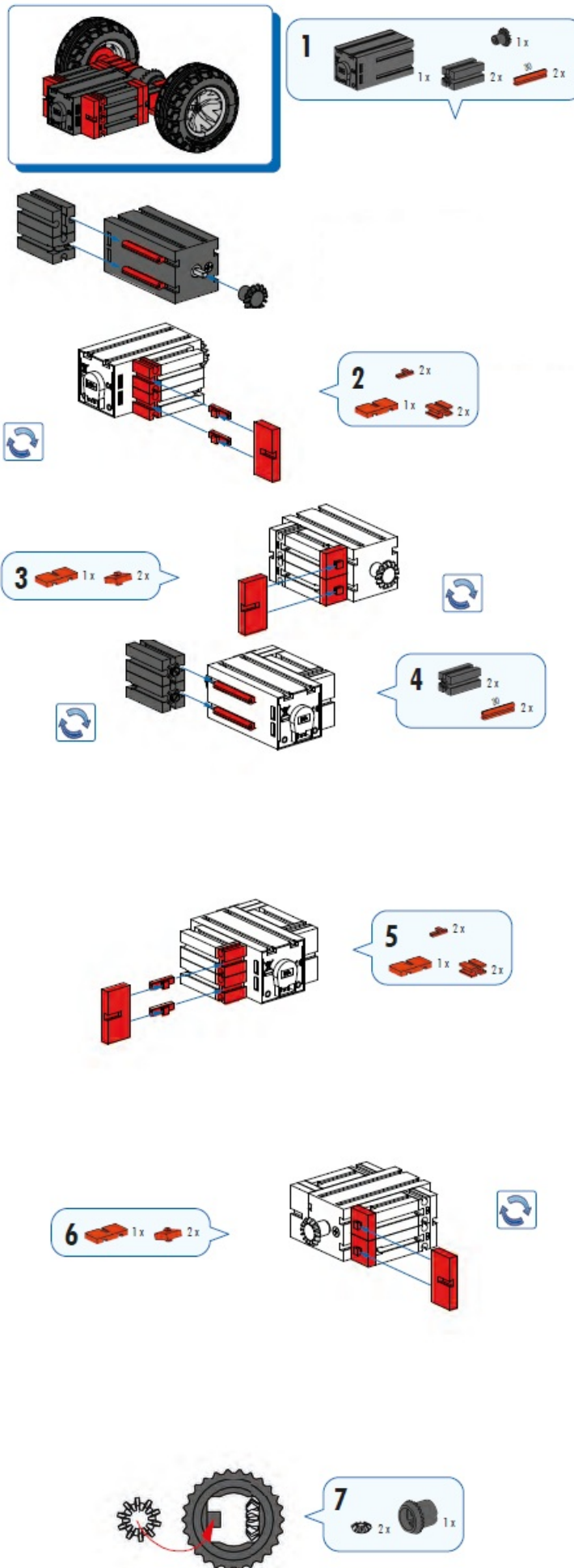
Safety Information

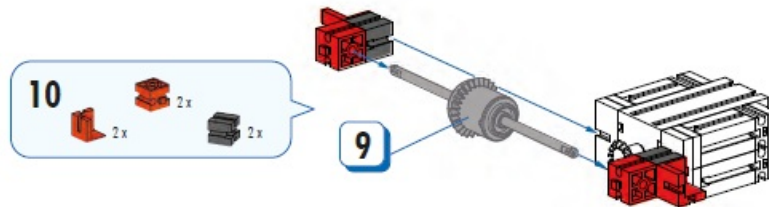
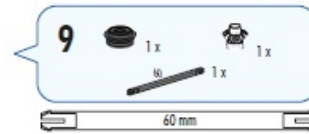
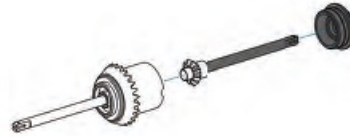
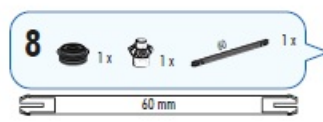
- **Caution!** Be careful not to hurt yourself on components with sharp or pointed edges!
- All components, especially moving parts, should be maintained and cleaned as necessary.

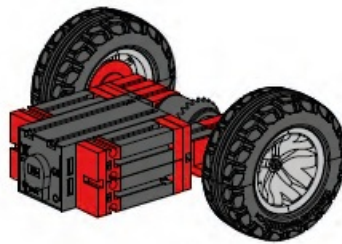
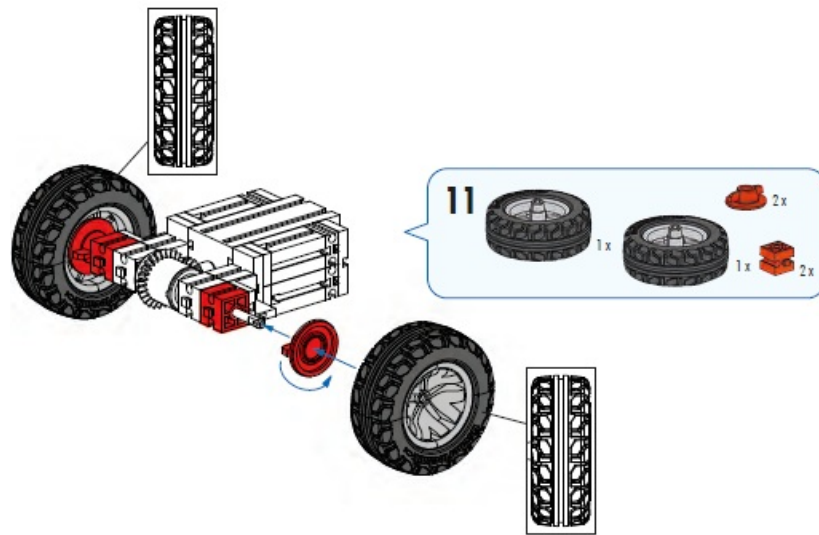
Electromagnetic Interference

- If the Controller is affected by external electromagnetic influences, it can still be used for the purpose intended after the end of the interference.
- It is possible that the power supply will have to be interrupted for a short time and the Controller will restart.
- Ensure that the models are connected only to equipment rated in protection category II and marked with the appropriate symbol.
- The product may only be used with one of the following Fischertechnik energy sources: Power Set or Art No.: 35537 Accu Pack 8.4V.
- You are not allowed to use 9V NiMH accu packs in this product.
- Do not attempt to charge NON-rechargeable batteries.
- Rechargeable batteries are only to be charged by adults.
- Take rechargeable batteries out of the battery tray before charging them.
- Insert batteries with the correct polarity.
- Remove dead batteries from the product.
- Do not short-circuit the connecting terminals!
- Discard spent dry cells at a special waste disposal center.
- Do not insert the wires into an outlet!
- Regularly inspect the battery charger for damage. If the battery charger has been damaged, it should not be used further until fully repaired.
- No electrical components (motors, lamps) are to be connected to any other power supply than that provided by Fischertechnik.
- Instructions for Environmental Protection www.fischertechnik.de/environment

Driving unit



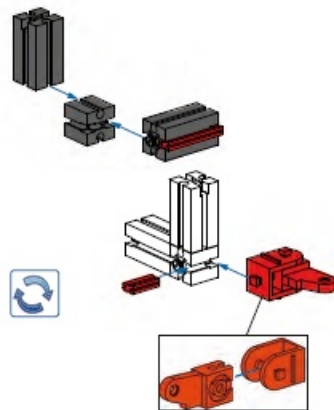




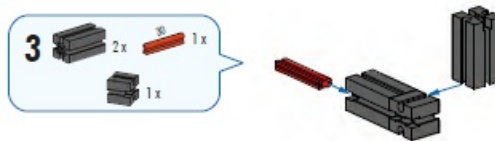
Steering



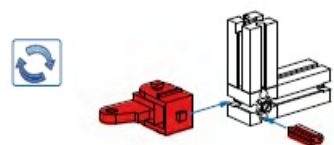
- 1**
- 2x [Grey Technic Beam 1x3]
 - 1x [Red Technic Pin]
 - 1x [Grey Technic Pin]



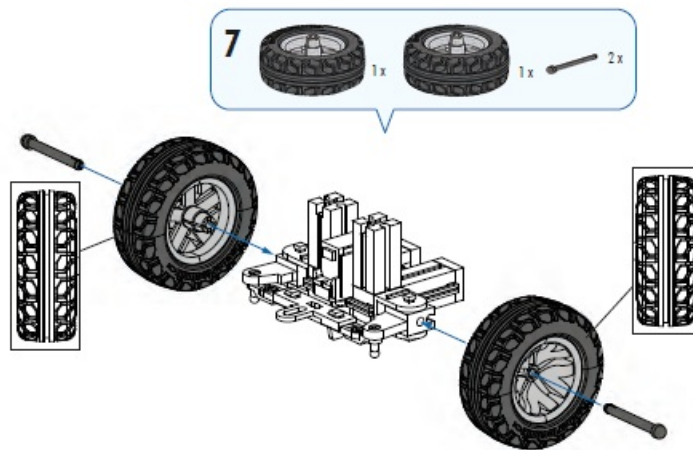
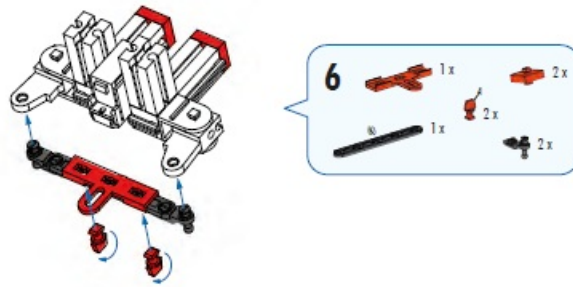
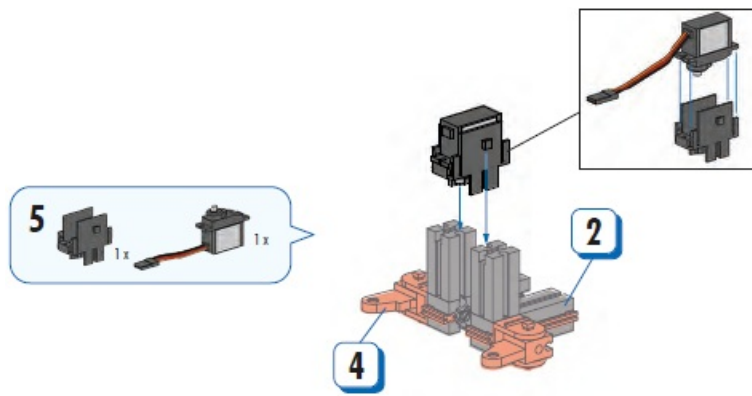
- 2**
- 1x [Red Technic Pin]
 - 1x [Red Technic Pin]
 - 1x [Red Technic Pin]



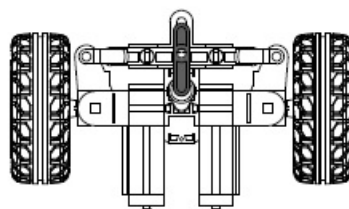
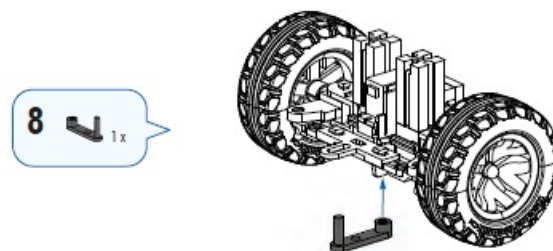
- 3**
- 2x [Grey Technic Beam 1x3]
 - 1x [Red Technic Pin]
 - 1x [Grey Technic Pin]

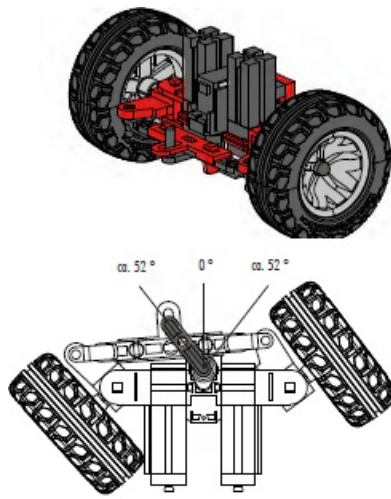


- 4**
- 1x [Red Technic Pin]
 - 1x [Red Technic Pin]
 - 1x [Red Technic Pin]

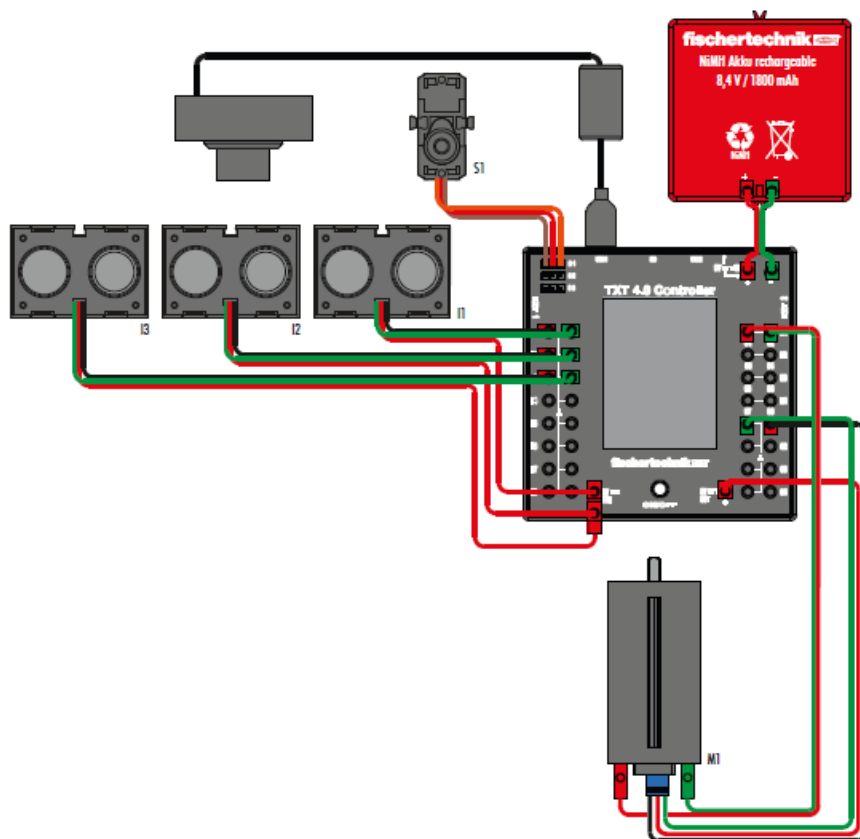


Switch on TXT 4.0 Controller – Plugin Servo – Servo moves to center position – Install servo arm as shown in illustration (steering must be in center position).





Circuit diagram



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TXT 4.0, TXT 4.0 Robotics Base Set, Robotics Base Set, Base Set, Set

References

-  [fischertechnik Konstruktionsbaukasten - fischertechnik](#)
-  [fischertechnik.de/environment](#)
- [User Manual](#)

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