Heng Long 3938-1

Heng Long 1/16 Scale Russian T-90 Main Battle Tank TK7.0 Instruction Manual

Model: 3938-1 | Brand: Heng Long

1. Introduction

Thank you for purchasing the Heng Long 1/16 Scale Russian T-90 Main Battle Tank. This remote-controlled tank is designed for hobbyists and enthusiasts, featuring realistic sound effects, smoke generation, and a functional BB firing mechanism. This manual provides essential information for safe operation, setup, and maintenance to ensure you get the most out of your product.

2. Safety Information

- This product is not suitable for children under 15 years of age. Adult supervision is recommended during operation.
- Always operate the tank in a safe, open area, away from people, pets, and obstacles.
- Do not aim the BB firing mechanism at people or animals. Always wear protective eyewear when operating the tank.
- Keep hands and loose clothing away from moving parts, especially the tracks and turret.
- Use only the provided charger and battery pack. Improper charging or battery usage can lead to fire or injury.
- Do not ingest smoke liquid or BB pellets. Keep them out of reach of small children.

3. What's in the Box

The package includes the following components:

- 1x Heng Long 1/16 Scale Russian T-90 Main Battle Tank
- 1x 2.4Ghz Radio Controller
- 1x Bag of BB Pellets
- 1x Bottle of Smoke Liquid
- 1x 7.4V 1800mAh Tank Battery Pack
- 1x 110V AC Charger
- Accessory Kits (various small parts for detailing)
- 1x English Instruction Manual Book
- 1x Infrared Combating System



Image: The Heng Long 1/16 Scale Russian T-90 Main Battle Tank with its remote control and various accessories, including BB pellets and smoke liquid, laid out for inspection.

4. Setup

4.1 Battery Installation

1. **Tank Battery:** Open the battery compartment on the tank (usually located on the underside or rear). Connect the 7.4V 1800mAh battery pack and secure it in place. Close the compartment.
2. **Remote Controller Batteries:** Open the battery cover on the back of the remote controller. Insert 6x AA batteries (not included) according to the polarity markings. Close the cover.

4.2 Smoke Liquid Filling

Locate the smoke unit's filling port on the tank (refer to the diagram in the included paper manual). Carefully use the dropper from the smoke liquid bottle to fill the smoke unit. Do not overfill.

4.3 BB Loading

Open the BB loading hatch on the turret. Carefully pour the BB pellets into the designated compartment. Ensure the hatch is securely

closed before operation.

4.4 Accessory Attachment

Attach the various small accessories and detailing parts to the tank as desired. Some parts may require gentle force or a small amount of plastic glue for secure attachment.

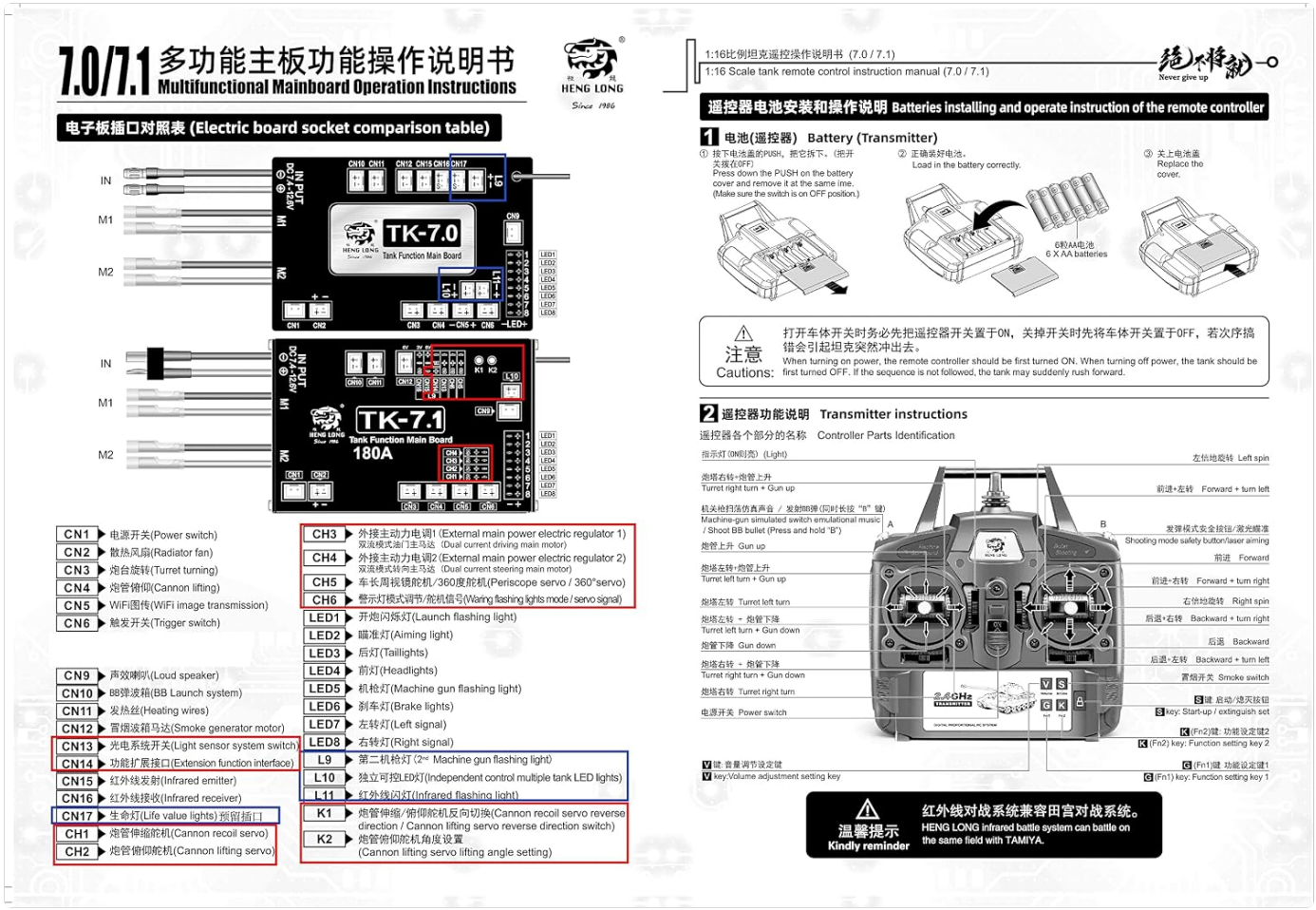


Image: A top-down view of the Heng Long T-90 RC tank, showcasing various attached accessories and details on the turret and hull.

5. Operating Instructions

5.1 Power On/Off

1. Turn on the remote controller first. The indicator light should illuminate.
2. Turn on the tank's power switch (usually located near the battery compartment). The tank will emit a start-up sound.
3. To power off, reverse the sequence: turn off the tank, then the remote controller.

5.2 Remote Control Functions

The 2.4Ghz remote controller features various controls for realistic tank operation:

- **Left Stick (Throttle):** Controls forward/backward movement and speed.
- **Right Stick (Steering):** Controls left/right turning.
- **Turret Rotation:** Typically controlled by a dedicated button or joystick for 320-degree rotation.
- **Barrel Elevation:** Controls the barrel's up and down movement (approximately 30 degrees).
- **BB Firing:** Activates the airsoft BB firing mechanism.
- **Machine Gun Sound:** Triggers machine gun sound effects.
- **Smoke On/Off:** Activates or deactivates the smoke generator.
- **Sound Effects:** Switches between different engine and battle sound effects.



Image: The Heng Long T-90 RC tank positioned next to its remote control, illustrating the scale and components.

5.3 Driving and Maneuvering

Use the left and right joysticks to control the tank's movement. The TK7.0 system offers proportional control for precise driving. The tank is designed to handle various terrains, including rocky surfaces and sand, as demonstrated in the videos below.

Your browser does not support the video tag.

Video: A 36-second demonstration of the 1/16 Henglong Russia T90 RC Battle Tank Toy in action, showcasing its movement and features.

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Video: A 47-second overview of the Remote Control 2.4Ghz TK7.0 1/16 Russian T-90 RC Tank, highlighting its operational capabilities.

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Video: A 41-second clip demonstrating the 1/16 scale RC Tank Russian T-90 Main Battle Tank navigating various terrains and showcasing its features.

6. Maintenance

6.1 General Cleaning

Regularly clean the tank's exterior with a soft, dry cloth. Avoid using water or harsh chemicals, as this can damage electronic components. Pay special attention to cleaning the tracks to prevent debris buildup.

6.2 Battery Care

- Always fully charge the tank battery before first use and after each play session.
- Do not overcharge or completely drain the battery.
- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- Remove batteries from the remote controller if not in use for extended periods.

6.3 Smoke Unit Maintenance

Ensure the smoke unit is clean and free of blockages. If smoke production decreases, check the liquid level and clean the nozzle if necessary. Use only approved smoke liquid.

6.4 Track Maintenance

Periodically inspect the tracks for any damage or debris. Ensure they are properly aligned and tensioned. If tracks frequently come off, a simple modification or replacement with metal tracks might be necessary (as noted by some users).

7. Troubleshooting

- **Tank not responding:** Check battery levels in both the tank and remote controller. Ensure both are powered on and properly paired.
- **No smoke production:** Verify smoke liquid level. Ensure the smoke function is enabled on the remote.
- **BBs not firing:** Check if BBs are loaded correctly and the firing mechanism is enabled. Ensure the safety mode is off.
- **Speaker unit issues (no sound):** If the speaker unit stops producing sound, it may be damaged. Contact customer support for replacement options.
- **Tracks slipping or coming off:** Inspect tracks for damage or excessive wear. Ensure proper tension. Consider upgrading to metal tracks for improved durability on rough terrain.
- **Instructions unclear:** The included paper manual may have translation nuances. Refer to online resources or manufacturer's support for clearer guidance if needed.

8. Specifications

Brand Name	Heng Long
Model Number	3938-1
Model Name	T-90
Scale	1:16 Scale
Material Type	Metal, Plastic
Power Source	Battery Powered
Battery Description	Lithium-Ion Polymer (7.4V 1800mAh)
Operation Mode	Remote Control (2.4Ghz TK7.0 System)
Additional Features	Realistic Sound, Smoke Generation, BB Firing, Infrared Combating System
Item Dimensions	23 x 8 x 9 inches
Item Weight	9 Pounds
Manufacturer Minimum Age	168 Months (14 Years)

9. Warranty and Support

For warranty information, technical support, or replacement parts, please refer to the contact details provided by your retailer or visit the official Heng Long website. Keep your purchase receipt as proof of purchase.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question