Trackless Train Maintenance and Safety Guide

Formal English edition prepared from the original Chinese maintenance and after-sales instructions.

Document Type	Maintenance, safety, emergency response, and after-sales service guide
Intended Use	Customer handover packet, product manual appendix, and after-sales reference
Prepared In	English

This guide sets out the routine inspection requirements, passenger safety instructions, emergency handling procedures, and after-sales service terms applicable to the trackless train.

1. Maintenance Requirements

1.1 Weekly or Pre-Operation Routine Inspection

(To be carried out by the user)

The following inspections must be conducted weekly or before each use of the vehicle, whichever comes first:

1. Check the tire pressure and adjust it to the pressure recommended by the tire manufacturer.
2. Check the tightness of the wheel nuts/bolts.
3. Check the tightness of all suspension nuts and bolts.
4. Check whether the electrical connections of the trailer are functioning properly.
5. Check that all lights are operating correctly.
6. Check all moving parts for wear and replace them promptly when necessary.
7. Check that the coupler connecting the locomotive and the carriages is securely engaged.

1.2 Monthly Inspection

(To be carried out by the user; all items also apply to the trailer)

1. Check the tightness of all suspension components according to the specified torque data.
2. Check the wear condition of all towing bushings, including those of the coupler and drawbar.
3. Inspect the brake drum for cracks or abnormal wear.
4. Inspect the towing pin for abnormal wear.
5. Check whether the braking system is operating normally.
6. Lubricate the coupler, drawbar, and all other parts requiring lubrication.
7. Any replacement parts must be those approved by our company; otherwise, our company shall bear no responsibility.

1.3 Periodic Comprehensive Maintenance

Starting six months after the vehicle is put into service, a comprehensive inspection shall be carried out every month, including the six-month maintenance inspection, in order to ensure vehicle performance and prolong service life.

The inspection scope shall include all items listed under the monthly inspection above, plus the following:

1. Remove the brake drum and thoroughly inspect the brake shoes for excessive or abnormal wear.
2. Inspect the brake shoe return springs, brake bushings, camshaft sleeves, and brake shoe rollers/drums for any damage.
3. Inspect all vehicle bearings.
4. Inspect the axle connection points.
5. Thoroughly inspect the axle structure. If any problem is found, contact our company immediately so that the cause can be investigated according to the actual condition.
6. Replace worn parts only with consumable parts recommended by our company; otherwise, our company shall bear no responsibility.
7. If the motor malfunctions, please contact the manufacturer.
8. Inspections may be carried out either by qualified automotive maintenance personnel or by technicians from our company.

2. Passenger Instructions

Our trackless train is a motor vehicle intended for use within plant, factory, park, or site premises for passenger transport and sightseeing purposes. Ensuring safe passenger travel is our top priority.

1. The vehicle shall stop only at designated stopping points or passenger boarding/alighting areas to ensure passenger safety.
2. Passengers must follow all safety instructions given by the onboard safety personnel before and during the ride. During vehicle operation, passengers are strictly prohibited from standing or walking around inside the train in order to avoid unnecessary injury.
3. While the vehicle is moving, stopped at a station, or out of service, passengers and pedestrians are strictly prohibited from crossing between connected sections of the train in order to avoid unnecessary injury.

3. Emergency Measures

3.1 Motor Stops Running

If the motor suddenly stops running, the continued operation of the train will be affected. The vehicle should be stopped as soon as possible in a safe location.

- The electrical system may have failed, or the battery may be low.
- If the battery is low, recharge it immediately.
- In the event of an electrical fault, contact the manufacturer promptly or arrange for inspection and repair by qualified personnel.

3.2 Tire Leakage or Flat Tire

If a tire leak or flat tire is discovered, passenger safety must be ensured first, and then the tire should be replaced.

1. Stop the vehicle at the roadside or on level ground, switch on the hazard lights, and inform the passengers of the situation. If necessary, dispatch another train to transport the passengers so that their sightseeing schedule is not affected.
2. After the train has come to a complete stop, apply the parking brake immediately. To prevent the vehicle from moving while it is being lifted, block the wheel diagonally opposite the wheel being replaced with wedges or wooden blocks.
3. Remove the spare tire, jack, and wheel nut wrench. Place the spare tire under the vehicle body near the jack position so that, if the jack slips, possible danger can be minimized.
4. After replacing the tire, lower the jack slowly and tighten the wheel nuts alternately until they reach the specified torque.

4. After-Sales Service

4.1 User Responsibilities

1. After handover of the equipment and documents, the user shall properly retain the purchase contract, proof of purchase, certificate of conformity, and equipment operation manual.
2. The user shall assign maintenance personnel with appropriate mechanical and electrical knowledge. Such personnel must be familiar with and comply with all installation, operation, maintenance, and safety requirements set out in the Operation and Maintenance Manual.
3. According to the contract, the warranty period for the equipment is one year, calculated from the official handover date. Damage or malfunction caused by improper use, poor management, natural disasters, or other force majeure events is not covered by the warranty.
4. If the equipment requires repair, the user shall contact Zhengzhou Zhibaole Amusement Equipment Factory promptly. Repairs involving major or hazardous parts must be carried out strictly in accordance with relevant national regulations by qualified professional technicians holding the appropriate special equipment repair qualifications. Our factory shall not be held responsible for quality problems caused by improper maintenance.

4.2 Technical Support

1. If, after fully reviewing the Operation and Maintenance Manual, the user finds any part of the manual or technical documents unclear or subject to dispute, the user shall promptly communicate with the training personnel or contact our factory directly.
2. If any technical difficulties arise during operation of the equipment, please contact our factory in a timely manner so that the issues may be resolved promptly.
3. We provide long-term free technical consultation and guidance to ensure the safe and proper use of the equipment.

4.3 Service Charges

1. Our factory will provide free technical support and consultation for any of your service needs.
2. For equipment within the warranty period, any damage or malfunction caused by the design, manufacture, or installation of the equipment itself will be repaired free of charge.
3. During the warranty period, if the equipment is damaged due to poor user management or force majeure events (such as natural disasters or war), reasonable repair charges, management fees, and material costs will apply.
4. For equipment beyond the warranty period, reasonable repair charges, management fees, and material costs will apply.