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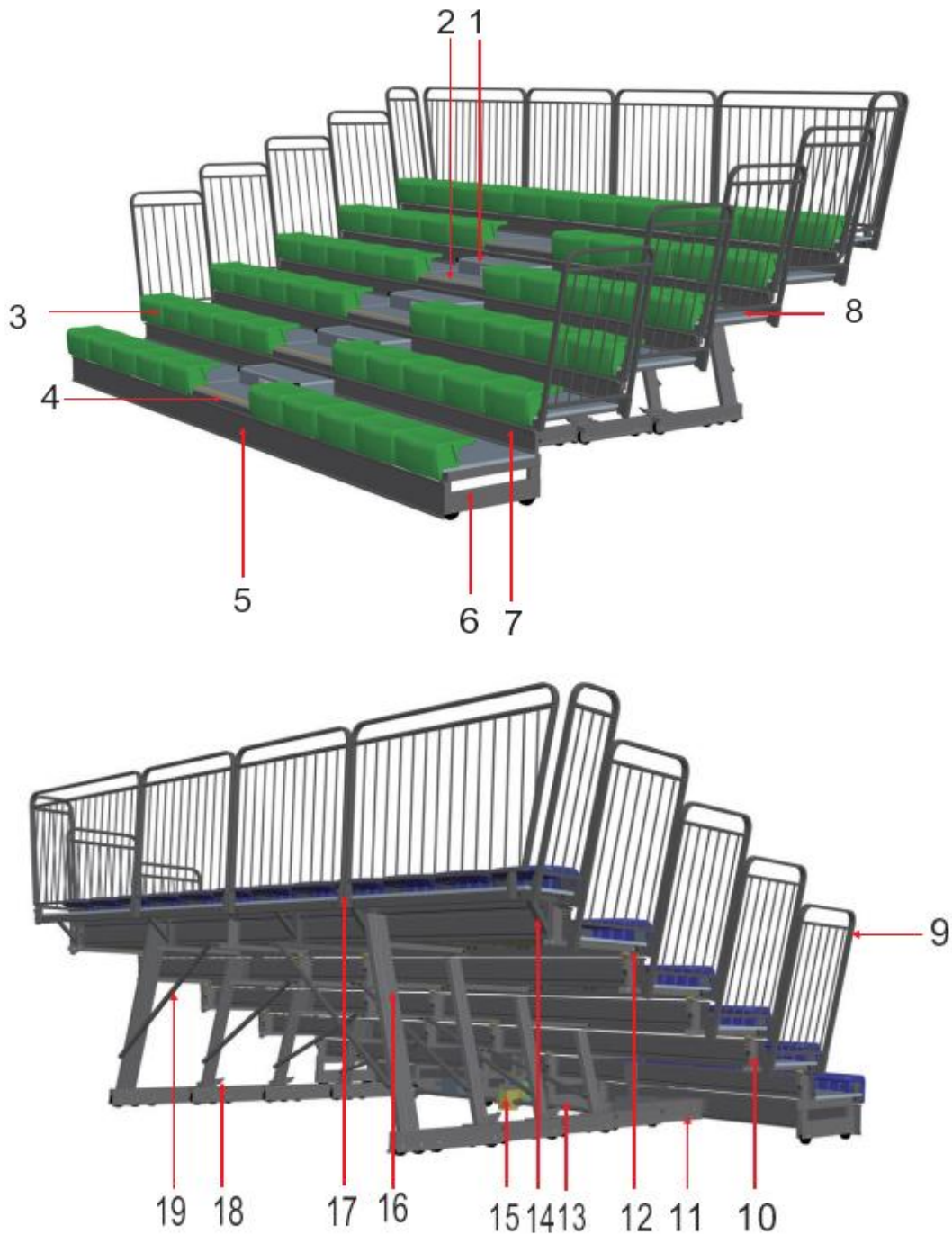
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## The Telescopic Bleachers Maintenance Instructions



— Stadium Seat Manufacturer —

# I . Telescopic Bleachers Sketch



Name of bleachers parts

1. Step	2 . Pedal	3. Seat	4. Front beam	5. Front plate	6. First row support
7. Back beam	8. Aluminum alloy edge banding	9. Side Guardrail			
10. Deputy Support	11. Drive support				
12. Adjustable support wheel	13. Motor connecting rod	14. Tail support	15. Motor		
16. Main support					
17. Back Guardrail Socket	18. Row lock	19. Batter brace			

## II. Basic Operation

### A. Open the bleachers

- 1) Before opening, please check whether there is any obstacle in front of the bleachers. If so, please clear it in time.
- 2) Before opening, must keep the floor clean, dry and free of water.
- 3) Check the power supply (distribution box: see Figure 1-2): whether it meets the system requirements.
- 4) When the operator starts the handle switch (see Figure 1-1), the operators must pay close attention to the progress of the system. Under normal conditions, each row is pulled out in turn.

Note: the handle switch is electrically operated. Long press the “Open” button to open, and when the bleachers is fully opened, it will stop automatically when touch the limit switch.

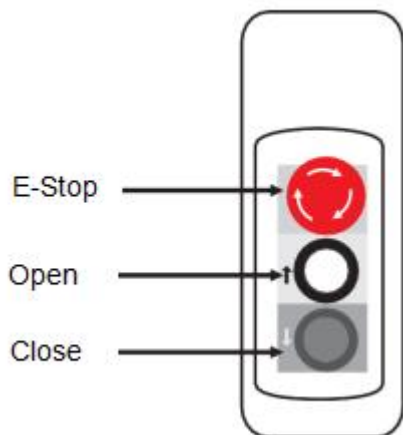


Figure 1-1 Handle switch

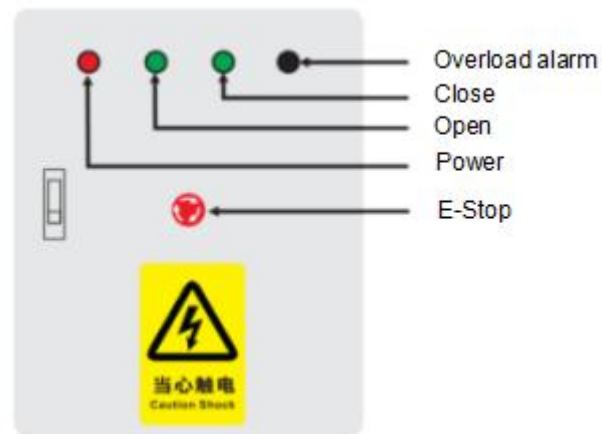


Figure 1-2 Distribution box

- 5) After opening, if it is a folding chair, please turn over the seat, if it is bench and low-backrest seat etc., no such operation. After the system is turned on, check the connection lock whether close. (Row lock: see Figure 1-3)

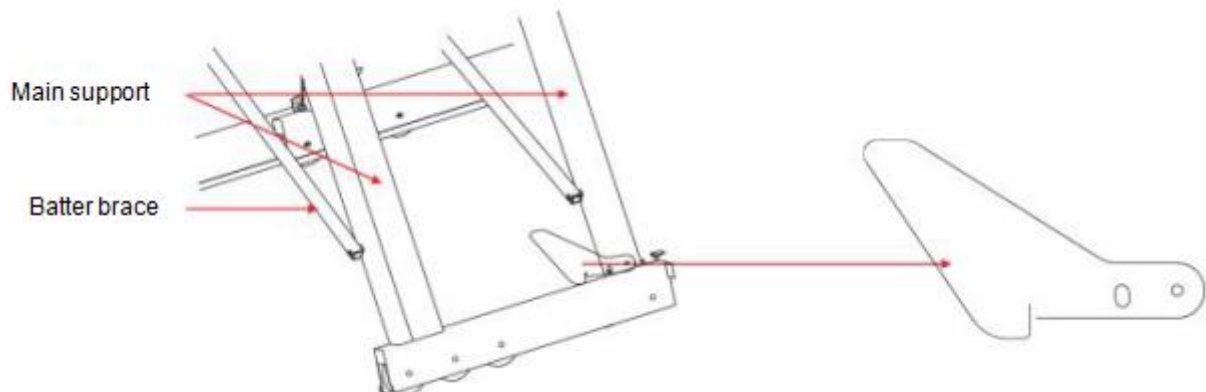


Figure 1-3 Row lock

Note: the handle switch or key should be removed at any times to prevent the

operation of irrelevant personnel or the accidental start of the machine.

## B. Close the bleachers

### 1. Rear-folding seat

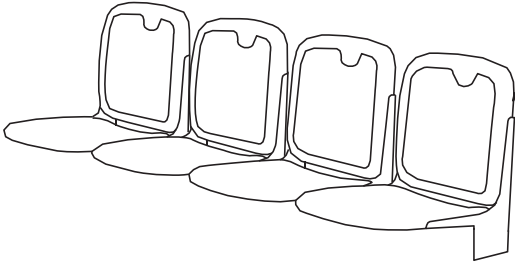


Figure 1-4 Rear-folding seat (open)

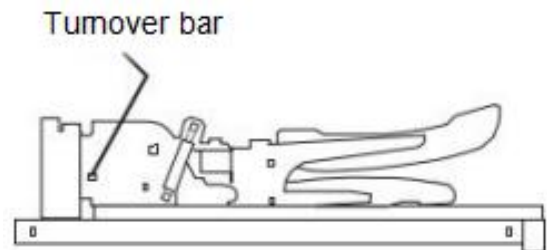


Figure 1-5 Rear-folding seat (close)

- 1) Use the crowbar to pry the lock bar of all seats and turn the seats down.
- 2) Check whether the connection lock (row lock) is normal or not. Check the ground at the bottom of the bleachers for obstacles and other objects. If so, clean up immediately. Check whether the power supply meets system requirements.
- 3) When close, at least one person on each side of the bleachers system.
- 4) When the operator activates the “close” button, both operators must pay close attention to the system contraction. Under normal conditions, each row should be sequentially contracted.

Note: the handle switch is electrically operated. Long press the “close” button to close, and when the bleachers is fully closed, it will stop automatically when touch the limit switch.

- 5) When the system closed to the last row. The operator on both sides should pay attention to whether the two ends of the entry situation is consistent, and finally, the system must be retracted to the set position.
- 6) After the bleachers are closed, power off the system.

### 2. Front-folding seat

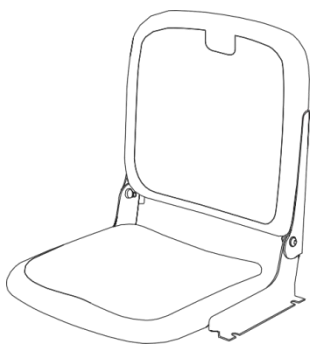


Figure 1-6 Front-folding seat (open)

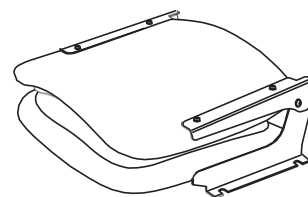


Figure 1-7 Front-folding seat (close)

### III. Notes

- 1) Do not close or open the bleachers while it is in the process of opening or closing.
- 2) Do not allow people to climb, sit or stand on the bleachers when it is closing.
- 3) Do not allow irrelevant personnel to operate the system.
- 4) No one should stand, sit or ride on the system during operation.
- 5) Do not allow irrelevant personnel get close to the system below.
- 6) In the absence of safety guardrail, no unit or arrangement can be used alone.
- 7) Do not expose the system to water and excess moisture, and do not allow spectators with waterlogged clothing onto the bleachers.

**Note: after the operation of opening or closing the bleachers, the power supply of the main gate of the distribution box must be turned off in time. For contact accidents caused by the power supply of the main gate of the distribution box is not disconnected, the applicable party shall bear all responsibilities, and the manufacturer shall not bear any responsibility.**

### IV. Maintenance

#### A. Lubricate (see appendix 1)

- 1) Need to lubricate if the whole system work usage more than 20 times or every three months.
- 2) Use grease.
- 3) Grease the inner surface of the upper wall bracket and the inner-row track.

#### B. Check

- 1) Please refer to the applicable building regulations for inspection requirements.
- 2) We suggest that the system should be checked every 6 months. When lubricating the system, the underlying structure should be checked to see if there are any defective or damaged parts. It is also necessary to check whether the connecting lock (row lock) between each row is bent or missing, and whether the bolt is loose.
- 3) Check the fluency of each operation, if there is abnormal noise, should stop immediately, refer to relevant handling methods.

#### C. Clean

- 1) During open and close, small debris and dust on the operating floor should be swept away to ensure smooth operation.
- 2) After each major event, the pedal and pressing plate shall be cleaned in time, and the broom and dustpan shall be used to collect debris. If there are food or drink traces, wipe them with a wet cloth.
- 3) The seats and armrests should be cleaned according to the frequency of use. Generally, a mixture of neutral alkali and warm water should be used to scrub with a sponge or rag. For the rust that is difficult to treat, household cleaners can be used.

#### D. Maintain

1) In order to keep the appearance of wooden components (wooden treads) clean, the wooden treads should be maintained as the wooden floors. Clean the bleachers regularly according to the frequency of use.

2) To keep the appearance of the plastic component (seat) clean, clean the plastic seat with a warm soapy water solution. The frequency of cleaning depends on the number of uses. Clean seats and pedals with a sponge. To absorb the excess liquid and allow the components to dry as soon as possible.

## V. Trouble shooting (see appendix 2)

### 1. Faults related to failure to open

#### A. The bleachers cannot be opened

1) Circuit system reasons: check whether the power supply and line are abnormal, and check whether the overload protector of the distribution box trips.

2) Structural system reasons: check whether the row lock is stuck, whether the main support interferes, whether the deputy support wheel and guide wheel are stuck.

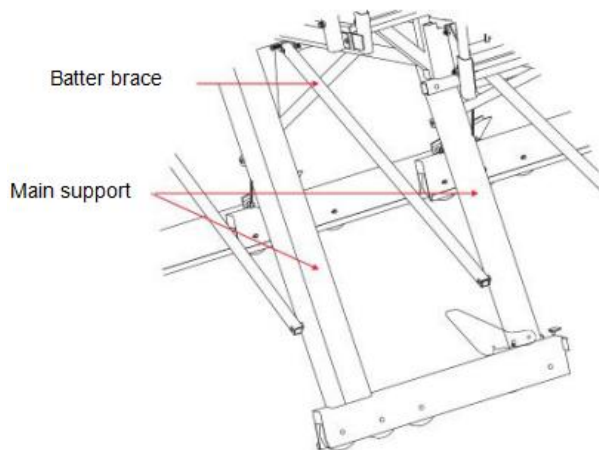


Figure 3-1 Main support

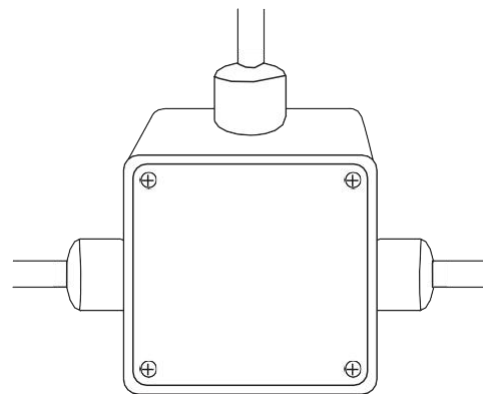
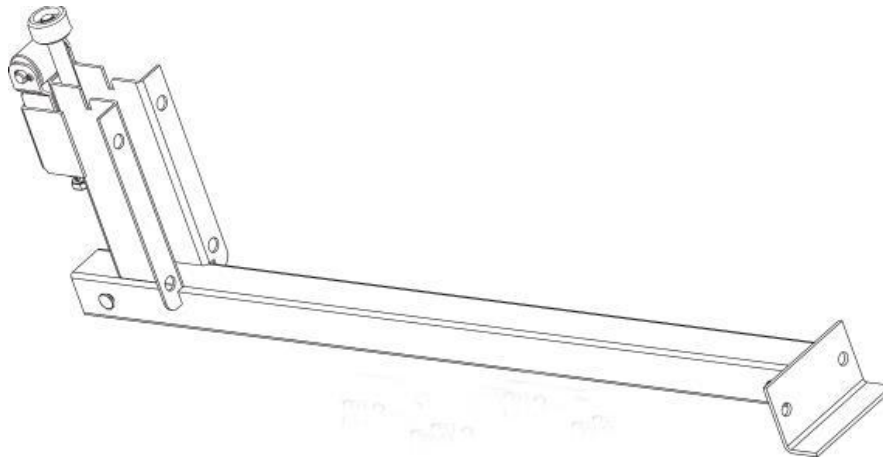


Figure 3-2 Junction box

Note: Main support in the first row. (see Figure 3-1); Junction box in the first row. (see Figure 3-2)

#### B. High resistance when opening bleachers

If there is too much rubbish on the floor and the resistance of wheels is too large, the floor should be cleaned immediately. Check where the bleachers fit together. Check the cantilever beam (deputy support, see Figure 3-3) to see if it is loose. If so, refasten or repair. Check whether the spacing between main support is normal.



**Figure 3-3 Deputy support**

## 2. Faults related to closing

### A. The bleachers cannot be closed

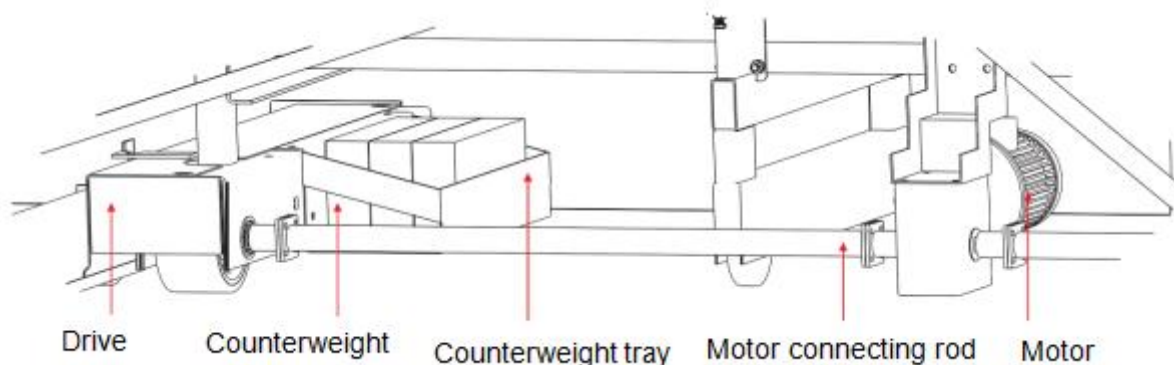
- 1) **Circuit system reasons:** check whether the power supply and line are abnormal, and check whether the overload protector of the distribution box trips.
- 2) **Structural system reasons:** check whether the row lock is stuck, whether the main support interferes, whether the deputy support wheel and guide wheel are stuck.

### B. High resistance when closing

If there is too much rubbish on the floor, it should be removed immediately. Check whether all the row locks move freely, whether the row locks are connected improperly and rotate inflexibly, which will make the next row close together in advance, causing them to fit each other. Check whether the cantilever beam (deputy support) is loose. Check whether the spacing between main support is normal.

## 3. Faults related to the running process

A. If the bleachers get stuck or deviates during running, check the row lock and counterweight (counterweight tray, see Figure 3-4).



**Figure 3-4 Counterweight tray**

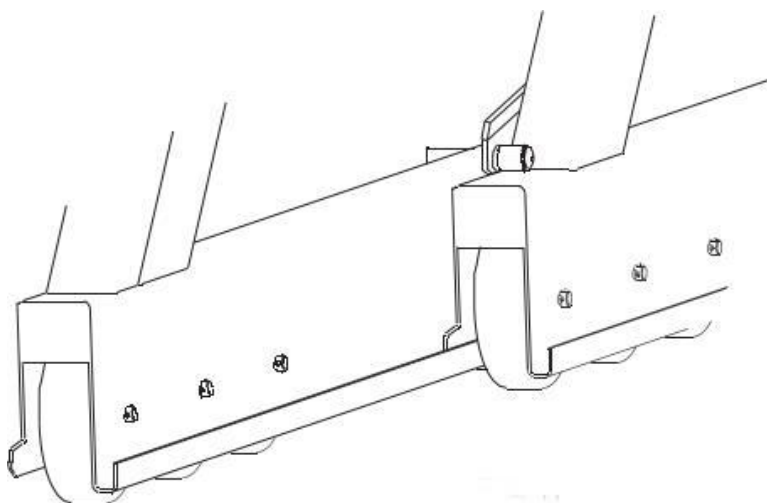
B. If the bleachers are not pulled out in rows during running, check whether the lubricating oil is enough, whether the row locks are stuck, and whether there is too much rubbish on the floor.

**4. Motor does not work**

- A. Check whether the main power switch is normal and whether the emergency stop switch on the distribution box and handle is open.**
- B. Check whether the plug of the control handle is inserted into the aviation socket.**
- C. Check the circuit breaker of distribution and replace it if necessary.**

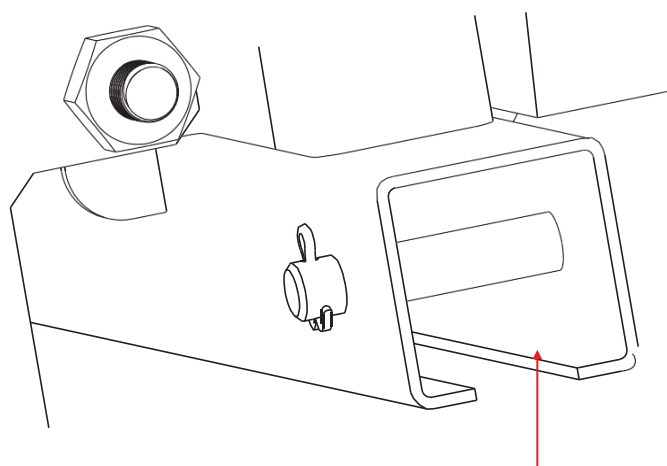
**Appendix 1 Diagram of lubricating parts**

- 1. The lower guide rail of the main support, see Figure 1-1.**



**Figure 1-1 The lower guide rail**

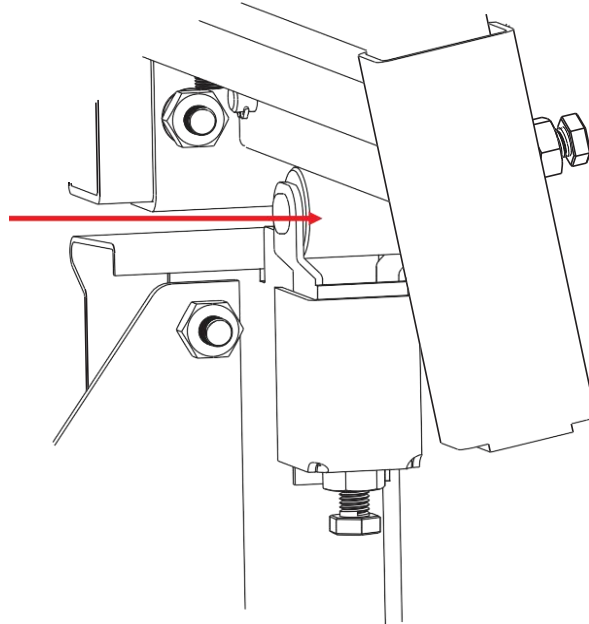
- 2. The top guide rail of the deputy support, see Figure 1-2.**



**Figure 1-2 Top guide rail**

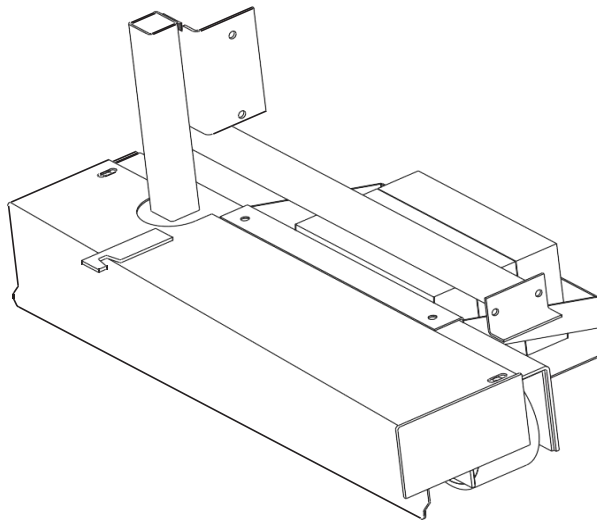


**3. Adjustable support wheels, see Figure 1-3.**



**Figure 1-3 Adjustable support wheels**

**4. The drive, see Figure 1-4.**



**Figure 1-4 The drive**

## Appendix 2 Trouble shooting

No.	Status	Solution
1	The bleachers cannot be opened and closed	<p>Electric telescopic bleachers</p> <ol style="list-style-type: none"> <li>1. Check the power.</li> <li>2. Check whether the first row junction box trips.</li> <li>3. Check whether the row lock is stuck.</li> </ol> <p>Manual telescopic bleachers.</p> <ol style="list-style-type: none"> <li>1. Check whether the main support of the first row is loosened.</li> <li>2. Check whether the row lock is stuck.</li> </ol>
2	High resistance when opening bleachers	<ol style="list-style-type: none"> <li>1. Check if there is too much litter on the floor.</li> <li>2. Check to see if the bleachers fit together at any point.</li> <li>3. Check the cantilever (deputy support) to see if it is loose.</li> <li>4. Check that the spacing between the main supports is normal.</li> <li>5. Check that the main support is aligned with another main Support.</li> </ol>
3	Bleachers deviation	Check the counterweight. Add more weight to the slow side.
4	Bleachers stuck	Check whether the row lock is stuck.
5	The bleachers are not pulled out in rows	Check whether the lubricating oil is enough, whether the row lock is stuck, and whether there is too much garbage on the floor.



## Caution

If the fault cannot be eliminated in use, please contact us.

Please remember:

If used improperly, any well-designed and well debugged machinery cannot work normally for a long time. We strongly recommend that users strictly follow the instructions in this manual at all times.

Our past experience has proved that it is unwise to let untrained personnel operate. We strive to ensure that the products you choose can run for a long time without failure. If you still have problems after reading this manual, we are willing to help you. Please call for more information.

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