

## Common troubles and troubleshooting

See the following table for the common troubles, causes and troubleshooting:

Trouble	Analysis of causes	Troubleshooting
Suspended platform slides down in static condition	<ol style="list-style-type: none"> <li>1. Motor electromagnetic brake fails.</li> <li>2. The spacing between brake and armature is over too big</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace electromagnetic brake</li> <li>2. shorten the spacing, the reasonable spacing should be at 0.5 ~0.6mm( see 5.1.2)</li> </ol>
Suspended platform doesn't stop in ascending and descending	<ol style="list-style-type: none"> <li>1. the main contact point of AC contactor disengages</li> <li>2. Control button fails.</li> </ol>	<ol style="list-style-type: none"> <li>1. Push down "emergency stop" to stop suspended platform, replace contactor.</li> <li>2. First stop suspended platform as per the methods above, and then replace control button.</li> </ol>
Suspended platform can't ascend and descend	Power supply is abnormal: <ol style="list-style-type: none"> <li>1. Leakage breaker disengage</li> <li>2. Phase lacking</li> </ol>	<ol style="list-style-type: none"> <li>1. Check to see if any leakage, and take preventive measures.</li> <li>2. Check if the 3-phase power is normal and reconnect</li> </ol>
	Failure of control line <ol style="list-style-type: none"> <li>1. Control transformer fails</li> <li>2. Thermal relay breaks or damages</li> <li>3. fuse of contactor damages</li> <li>4. Poor contact in plug</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace transformer</li> <li>2. Switch or replace thermal relay</li> <li>3. Replace fuse of contactor</li> <li>4. Check and tighten plug or place</li> </ol>
Suspended platform tilts	<ol style="list-style-type: none"> <li>1. Sensitivity difference in motor brake.</li> <li>2. Spring of centrifugal speed limiter loose.</li> <li>3. Difference in motor rotating speed, and hoist rope pulling</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust the spacing of motor brake</li> <li>2. Replace centrifugal speed limiter spring</li> <li>3. Check the rope pressing device or place motor with incorrect rotating speed</li> </ol>
	Uneven in the load of suspended platform	Adjust the load of suspended platform
Abnormal noises in suspended platform	Parts of hoist is damaged	Replace
Hoist at one side stop motion or motor heats and gives smoke	<ol style="list-style-type: none"> <li>1. Braking armature stop moving or spacing between armature and friction disc is too small</li> <li>2. Coil of brake is burnt to damage. Damage of switch.</li> <li>3. Short circuit and damage of rectifier</li> <li>4. Damage of thermal replay or contactor</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust the spacing between brake armature and friction disc or replace armature.</li> <li>2. Replace brake coil</li> <li>3. Replace rectifier</li> <li>4. Replace relevant electrical parts</li> <li>5. Replace switch</li> </ol>

Trouble condition	Trouble analysis	Troubleshooting
Working wire rope can't go through hoist	Welding problem at end of rope	<ol style="list-style-type: none"> <li>1. Grind welding part</li> <li>2. Remark end of wire rope</li> </ol>
Hoist can't actuate suspended platform	<ol style="list-style-type: none"> <li>1. Power voltage is too low</li> <li>2. Damage of hoist</li> <li>3. Brake doesn't open or open incompletely</li> </ol>	<ol style="list-style-type: none"> <li>1. check and adjust voltage</li> <li>2. Examine and adjust hoist</li> <li>3. Adjust spacing and check if brake work properly</li> </ol>
Motor noise or abnormal in heat radiation	<ol style="list-style-type: none"> <li>1. Operation lacking phases</li> <li>2. Voltage is too low or high</li> <li>3. Bearing is damaged</li> </ol>	<ol style="list-style-type: none"> <li>1. Check power supply</li> <li>2. Check power voltage</li> <li>3. Replace</li> </ol>
Safety lock slip or locking angle is too big	<ol style="list-style-type: none"> <li>1. Oil dust on the safety wire rope</li> <li>2. Abrasion of rope clip</li> <li>3. Sluggish motion in safety lock</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean or replace wire rope</li> <li>2. Replace rope clip</li> <li>3. Replace torsion spring of safety lock</li> </ol>

The rejection of wire rope is as described before; the wire rope up to the rejection standard should be rejected.