

K&K Single point swing # 040720001**Instructions for professional inspection and maintenance of single-point swings**

Playground equipment is subject to a wide range of stresses and strains over the course of its useful life, which can reduce or even eliminate the original safety. Regular inspection and maintenance ensures that the required safety of playground equipment is maintained.

This maintenance manual contains all the instructions needed to perform the inspection tasks and to comply with the inspection periods. It is assumed in this maintenance manual that the playground equipment is installed in a normally frequented playground in normal surroundings. If there are local factors that deviate from the normal, the inspection periods must be adjusted. This may cause the time intervals specified by the manufacturer / distributor to be shortened. An extension of the time intervals is excluded as these are minimum requirements.

Among the local factors that require shortening of the inspection periods are, for example, locations with heavy use, e.g. schoolyards, kindergartens, amusement parks; location with high levels of vandalism; locations near the coast; locations with air pollution; playground equipment increasing age.

Furthermore, this maintenance manual assumes that the described inspections and maintenance work will be carried out by personnel with suitable qualifications. Certain tasks (such as welding) can only be performed by qualified professionals or require machining by the manufacturer / distributor.

The owner / operator of the playground should set up a suitable inspection plan for the playground and document the inspections and maintenance performed there for the particular playground equipment.

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One-time maintenance work

Four weeks after installation, all screw connections must be checked and tightened if necessary. In this case, the specified advice in the regular maintenance work e. g. to turning moments has to be observed.

Regular maintenance

1. Routine visual inspection

1-1. 1x weekly (or different, determined by local factors)

- Check the minimum space of the playground equipment for cleanliness.
- Check playground equipment for consequences of vandalism, e. g. missing or damaged components.
- Check playground equipment for the effects of weather conditions, eg. B. by storm or frost

2. Operational inspection

2-1. 1x monthly (or different, determined by local factors)

- Check for visibility of the warning groove (red-colored ring on the swivel housing). If the ring is visible in a horizontal direction, there is a need for repair. See appendix A1 „Visual inspection of swivel at least once a month“
- Testing for smoothness of running. Relieve the swing platform and the universal joint from load. To check the swivel is slowly put into rotation by hand. If the swivel rotates without angular offset (well visible on the swing chains), it is fine and smooth of running.
- Check swing chains and connecting elements for wear, replace if necessary. Please note that the screws and nuts are fastened hand-tight without over-tightening the hexagon socket.
- Check plastic parts such as protective edges, linings, sheathing, sleeves, etc. for loss, signs of wear and damaged areas and replace if necessary.
- Check the condition of the ground surface, if applicable, follow the instructions for the inspection and maintenance of shock-absorbing floors specified by the manufacturer / distributor of playground floors, especially with regard to the level of loose fill material.
- Check the ground clearance of the swing platform.

2-2. every 3 months (or different, determined by local factors)

- Check axles, hubs and bearings for smooth running, bearing shake, wear or corrosion.
- Check for bearing play and wear. To check, the swing platform and the universal joint must be relieved by lifting the platform (e.g. by 2nd person or trestles). The swivel housing is manually set in motion to all directions. If wearout in excess of the intended swivel and rotary movements is detected damage requiring repair is present.

2-2. every 6 months (or different, determined by local factors)

- Check components for tight fit; check screw connections and tighten if necessary. The instructions given in the regular maintenance work, e.g. regarding torques, must be observed.
- Replace lubrication as described in appendix A2 „Replace lubrication at least every 6 months“.

3. Annual main inspection

- Check playground equipment including all components and construction elements above and below the playing level for damage caused by wear, vandalism, weather events, rotting, corrosion and element formation, etc. This may require excavation or access to areas below the playground level and subsequent repair of the playground surfacing.
- Check foundations for damage due to wear, vandalism, weather events, rotting, corrosive and element formation, etc. This may require excavation or access to areas below the playing level and subsequent repair of the playground surfacing.
- Inspect the playground surfacing using the inspection procedures and maintenance instructions provided by the manufacturer/distributor of playground floors, particularly with regard to levels of loose fill material.

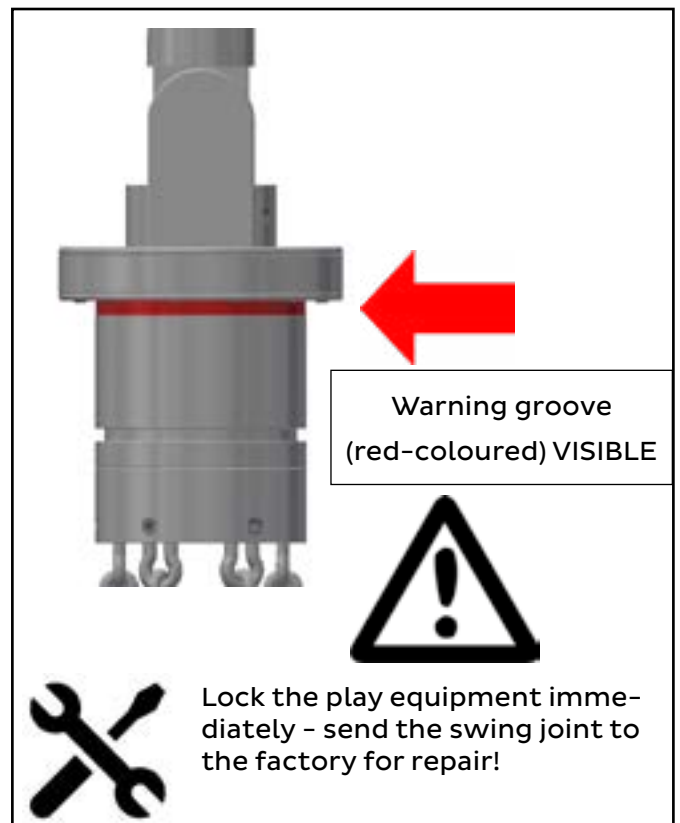
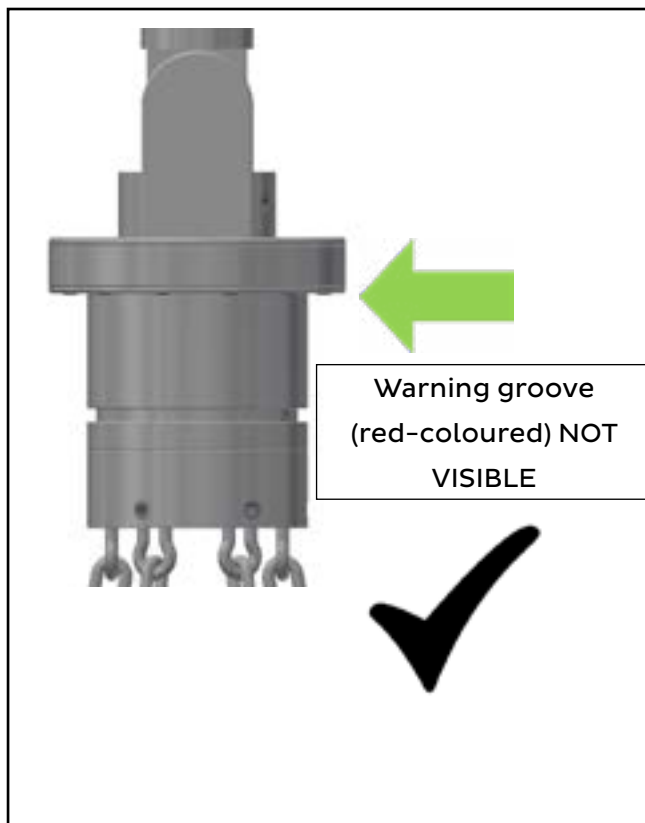
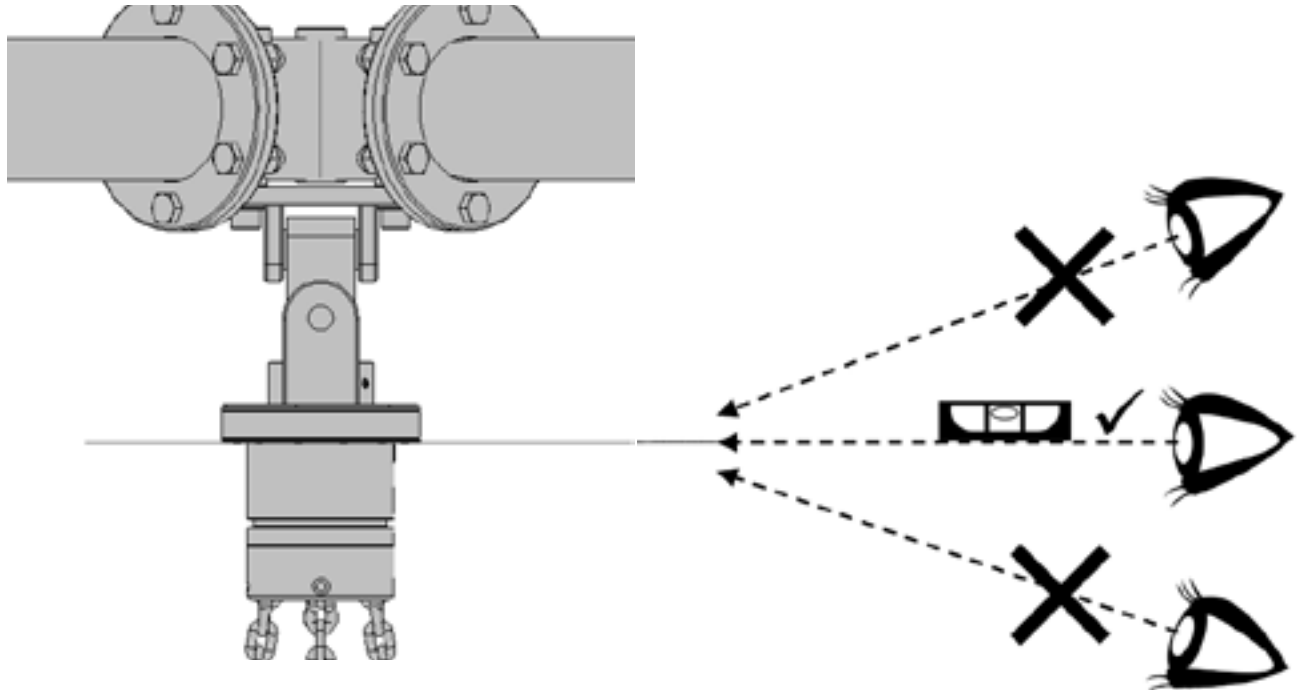
4. Endurance of the rotating swivel

- Dismount the swing joint of the playground equipment at the latest after a service life of 10 years and send it to the manufacturer/distributor for revision. It is assumed that the playground equipment is installed on a normally frequented playground in a normal environment. If the previous operational inspections have shown that local factors exist that deviate from normal, the life span must be adjusted. This can lead to a shortening of the service life specified by the manufacturer/distributor. An extension of the life span is excluded as this is the maximum duration.
- If damage is found to the swing joints, the affected play equipment must be taken out of service and must be closed until overhauled by the manufacturer/distributor or the swing joint is replaced. Access to the public, including children, must be prevented.

Appendix A1

Visual inspection of swivel at least once a month

Check for visibility of the red-coloured warning groove



Dismount the swing joint of the playground equipment at the latest after a service life of 10 years and send it to the manufacturer/distributor for revision.

Appendix A2

Replace lubrication at least every 6 months

required equipment:

- Lever grease press for taper lubricating nipple (K&K item 5200732)
- Fluid grease for K&K swing joints (K&K item 5200733)
- Ladder
- Cleaning rags/paper towels
- Allen key (wrench size 5 mm)

The lubricant must comply with Kaiser & Kühne specifications

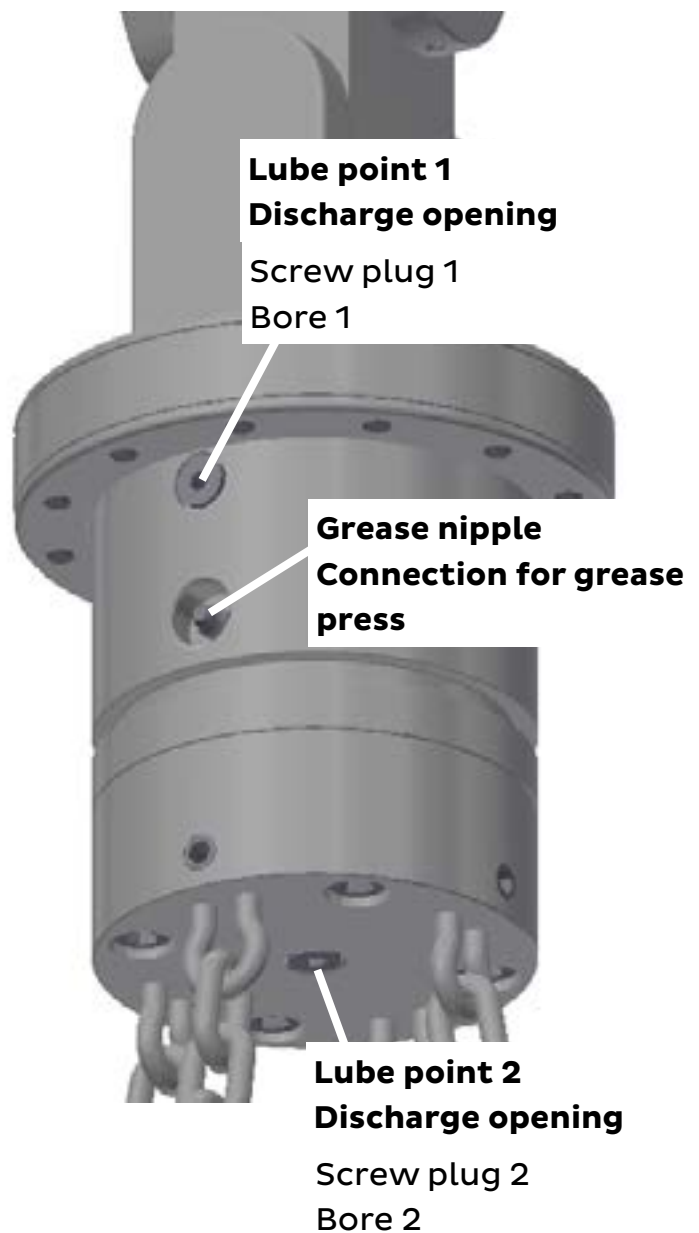
Procedure:

Lube point 1:

1. Remove the screw plug 1 with an Allen key size 5 mm (do not lose the sealing ring).
2. Press lubricant into the grease nipple using a lever grease press until fresh lubricant emerges from bore 1.
3. Pick up escaping old lubricant with e.g. cleaning rags and dispose of it properly.
4. Insert screw plug 1 and tighten firmly.







Lube point 2:

5. Remove the screw plug 2.
6. Press lubricant into the grease nipple using a lever grease press until fresh lubricant emerges from bore 2.
7. Pick up escaping old lubricant with e.g. cleaning rags and dispose of it properly
8. Insert screw plug 2 and tighten firmly.










Annexion E1

Spare parts

Item no.	Quantity	Description	Image
1060695	4	Support Pendulum Swing	
1060844	1	Cross section incl. bearing of Pendulum Swing	
1060829	1	Universal joint with swivel (four chain strands)	
3430060	4	Washer Ø17	
3400475	4	Dome head security screw-M8x12-Resistorx T40 A2	
1060701	1	Seat and Chain for Pendulum Swing incl. 4x chains and 1x swing seat	

Annexion E1

Spare parts

Item no.	Quantity	Description	Image
3590050	1	Single point swing seat	
015753	4x 2214 mm	Stainless steel chain Ø 7,0 mm Stainless steel chain Ø 7,0 mm	
1060742	4	U-Link 6 mm for 015818/3590050	
3430010	4	Hexagon cap nut M8 A2	
3430009	4	Washer Ø8,4 A2	
3400199	24	Hexagon screw M16x40 galvanized steel	
3430019	24	Washer Ø 17mm	

Annexion E1

Spare parts

Item no.	Quantity	Description	Image
3430053	24	Hexagon cap nut M16	
5200733	1	Fluid grease cartridge 400 g	
5200732	1	Lever grease press	
3490006	1	Allen key security hex socket AF5	
2030204	4	Dog point screw M16x25	
1060693	4	U-Link	
SFWZ0000014	1	Lubricating metal, bag (4 g)	