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AL-KO AK 161-50

AL-KO AK 161-50 mm Ball Coupling Instruction Manual

For Braked Trailers up to 1600 kg

1. INTRODUCTION

This manual provides essential instructions for the safe and proper installation, operation, and maintenance of your AL-KO AK 161-50 mm Ball Coupling. This coupling is designed for braked trailers with a permissible total weight of up to 1600 kg.

The AL-KO AK 161 features integrated safety and wear indicators to ensure secure coupling and timely maintenance. Please read this manual thoroughly before use to ensure optimal performance and safety.



Figure 1: AL-KO AK 161-50 mm Ball Coupling. This image shows the complete ball coupling unit with its black and red handle and galvanized steel body.

2. SETUP AND INSTALLATION

Installation of the AL-KO AK 161 ball coupling is designed to be straightforward. It replaces existing couplings using a two-screw attachment method.

2.1 Installation Steps

1. Ensure the trailer is securely supported and cannot move during installation.
2. Carefully remove the old coupling by unscrewing its two attachment bolts.
3. Position the new AL-KO AK 161 coupling onto the trailer drawbar, aligning the bolt holes.
4. Insert two new bolts (mounting material is not included with the coupling) and tighten them to the specified torque of 86 Nm.
5. Verify that the coupling is securely fastened and all bolts are tightened to the correct specification.

Important: Mounting material (bolts) is not included and must be sourced separately. Always use appropriate high-strength bolts for trailer components.

2.2 Dimensions

Refer to the diagram below for detailed dimensions of the AL-KO AK 161-50 mm Ball Coupling to ensure compatibility with your trailer drawbar.

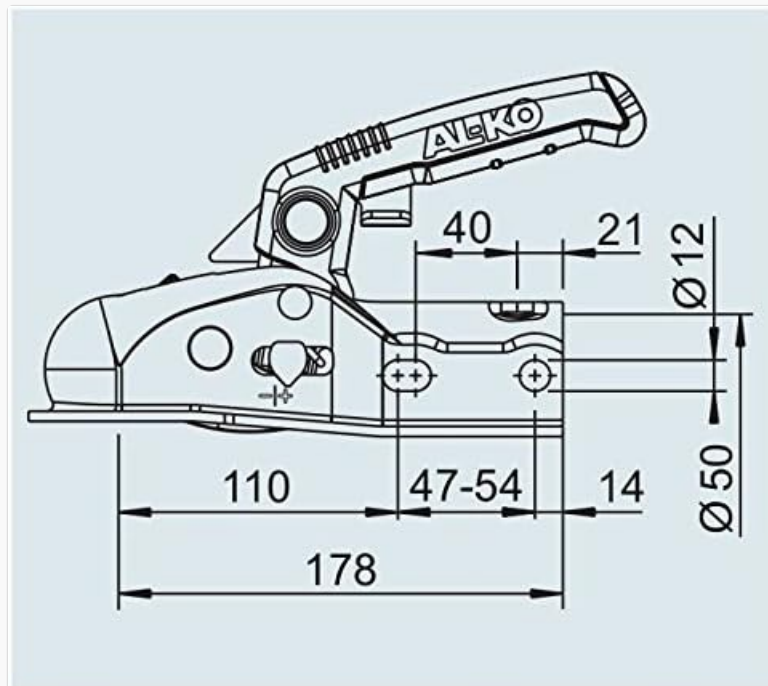


Figure 2: Dimensional drawing of the AL-KO AK 161-50 mm Ball Coupling, showing key measurements in millimeters for installation planning.

3. OPERATION

The AL-KO AK 161 ball coupling is designed with user-friendly features to ensure safe and reliable trailer connection.

3.1 Coupling to the Towing Vehicle

1. Ensure the towing vehicle's hitch ball is clean and free from grease or debris.
2. Lift the coupling handle fully to open the coupling mechanism.
3. Lower the trailer coupling onto the towing vehicle's hitch ball.

4. Press the coupling handle down firmly until it locks into place.

3.2 Safety Indicator

The AL-KO AK 161 features a visible safety indicator. Once the coupling is properly placed on the towing vehicle's hitch ball and the handle is secured, a **green cylinder** will be visible. If the green cylinder is not visible, the coupling is not correctly engaged, and you must re-check the connection before towing.

3.3 Wear Indicator

An additional indicator on the coupling handle provides information about wear. This indicator shows whether the wear limit of the towing vehicle's hitch ball or the trailer's coupling mechanism has been reached. Regularly check this indicator to ensure safe operation and to determine if replacement parts or a new coupling are necessary.

3.4 Flat Handle Design

The coupling features a flat handle design, complying with current regulations. This design allows for easier opening of tailgates on towing vehicles, even those with a low loading sill, without obstruction from the coupling handle.

AL-KO KUGELKUPPLUNGEN AK 161 / AK 270

**FÜR GEBREMSTE ANHÄNGER BIS 2.700 KG
MIT 3-FACHER SICHERHEIT FÜR FEHLERFREIES ANKUPPELN**

SICHERHEIT 1

Stellung Offen
Der Handgriff zeigt schräg nach oben und signalisiert dem Bediener dass er geöffnet ist.



SOFTTOUCHGRIFF
(AL-KO Gebrauchsmuster)
Im roten Bereich des Handgriffes wird eine weiche und somit haltende Kunststoffmischung eingesetzt. Zusätzlich dient die Nase am Handgriffende als Abrutschsicherung.



Die Kugel des Pkw's ist noch nicht eingetaucht, siehe rote Anzeige.

SICHERHEIT 2

Stellung Geschlossen
Die Kugel des Pkw's ist eingetaucht und hat den Sicherungshebel entriegelt. (Achtung! Gesetzlich vorgeschriebene Mindeststützlast erforderlich). Erst jetzt nimmt der Handgriff die horizontale Position ein und signalisiert dem Bediener, dass eine sichere Verbindung hergestellt wurde. Das Gespann ist jetzt fahrbereit.



SICHERHEIT 3
Anzeige für richtiges Ankuppeln
In der geschlossenen Stellung wird zusätzlich die grüne Sicherheitsanzeige durch die Kugelschraube des Pkw's herausgedrückt und somit sichtbar. Sie signalisiert nochmals dem Bediener, dass der Anhänger sicher mit dem Pkw verbunden ist. Die Fahrt kann beginnen.

Sicherungshebel für fehlerfreies Ankuppeln

VERSCHLEISSANZEIGE

Ablesebar im angekuppelten Zustand



Verschleißanzeige für Anhänger
Anhängervorrichtung am Pkw oder Kugelschraube am Anhänger ist nicht verschlissen.



Verschleißanzeige für Anhänger
Anhängervorrichtung am Pkw oder Kugelschraube am Anhänger ist verschlissen.



SOFTDOCK SERIENMÄSSIG

I Schutz gegen Verkratzen
I Schieberenschutz



Verbesserte Ausführung mit Stahlrinne für sicheren Halt auf der Kugelschraube.



OPTIONALES ZUBEHÖR DRUCKSCHLOSS

Wirksamer Schutz gegen schnellen Zugriff im an- und abgekuppelten Zustand.



2 AL-KO

AL-KO 3

Figure 3: Detailed view of the AL-KO AK 161-50 mm Ball Coupling, highlighting the safety (green cylinder) and wear indicators for proper connection and maintenance assessment.

4. MAINTENANCE

Regular inspection and maintenance are crucial for the longevity and safe operation of your AL-KO AK 161 ball coupling.

- **Visual Inspection:** Before each use, visually inspect the coupling for any signs of damage, cracks, deformation, or excessive wear.
- **Wear Indicator Check:** Regularly check the wear indicator on the handle. If the indicator suggests that the wear limit has been reached for either the hitch ball or the coupling, replace the affected component immediately.

- **Lubrication:** Keep moving parts of the coupling clean and lightly lubricated as per general trailer maintenance guidelines. Avoid over-lubricating the hitch ball itself, as this can interfere with braking systems.
- **Fastener Check:** Periodically check the tightness of the mounting bolts. Re-tighten to 86 Nm if necessary.
- **Cleaning:** Clean the coupling regularly to prevent dirt and debris buildup, which can affect its operation.

Warning: Never use a damaged or excessively worn coupling. Doing so can lead to trailer detachment and serious accidents.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your AL-KO AK 161 ball coupling.

- **Coupling not engaging properly (Green cylinder not visible):**
 - Ensure the hitch ball is correctly positioned within the coupling.
 - Check for any obstructions preventing the handle from fully closing.
 - Verify that the hitch ball diameter matches the coupling (50 mm).
 - Inspect the hitch ball and coupling for excessive wear or damage.
- **Handle is stiff or difficult to operate:**
 - Clean the moving parts of the handle and coupling mechanism.
 - Apply a light lubricant to the pivot points of the handle.
 - Check for any physical damage or bending of the handle or mechanism.
- **Excessive play or rattling when coupled:**
 - Check the wear indicator. If it shows excessive wear, replacement of the hitch ball or coupling may be necessary.
 - Ensure the mounting bolts are tightened to the correct torque (86 Nm).

If you encounter persistent issues or are unsure about the safety of your coupling, consult a qualified trailer technician or contact AL-KO customer support.

6. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	AK 161 (Manufacturer Part Number: 219)
Permissible Total Weight (Trailer)	Up to 1600 kg (3527.39 lbs)
Bearing Load	120 kg
Material	Alloy Steel
Finish Type	Galvanised
Hole Configuration	Horizontal + Cross
EC Mark	E1 55R-01 2669

Feature	Specification
Tightening Torque	86 Nm
Item Weight	1.7 kg
Vehicle Service Type	Trailer
Automotive Fit Type	Universal Fit

7. WARRANTY INFORMATION

Specific warranty details for the AL-KO AK 161-50 mm Ball Coupling are typically provided at the point of purchase or can be found on the official AL-KO website. Please retain your proof of purchase for any warranty claims. The warranty generally covers manufacturing defects under normal use conditions.

For detailed warranty terms and conditions, please refer to the documentation provided with your product or visit the AL-KO official website.

8. CUSTOMER SUPPORT


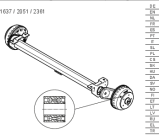


If you have any questions regarding the installation, operation, or maintenance of your AL-KO AK 161-50 mm Ball Coupling, or if you require technical assistance, please contact AL-KO customer service or your authorized AL-KO dealer.


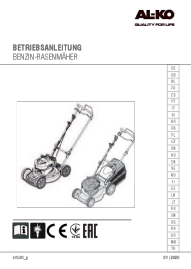


You can typically find contact information on the AL-KO official website or through your product retailer.



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Related Documents - AK 161-50

 BETRIEBSANLEITUNG AL-KO Achse gebremst - Compactlager 1037 / 201 / 2381  1000714_0 000070	AL-KO Braked Axle with Compact Bearing: Operating Manual Comprehensive operating and maintenance manual for AL-KO braked axles with compact bearings, covering safety instructions, maintenance intervals, and replacement parts.
 BETRIEBSANLEITUNG BEZUGSTROMERZEUGER AL-KO 2500-C AL-KO 3500-C AL-KO 6500-C  1000714_0 000070	AL-KO Stromerzeuger 2500-C, 3500-C, 6500-C Betriebsanleitung Umfassende Betriebsanleitung für AL-KO Benzin-Stromerzeuger Modelle 2500-C, 3500-C und 6500-C. Enthält Sicherheitshinweise, Inbetriebnahme, Bedienung, Wartung und Fehlerbehebung.

 <p>AL-KO ENDURO X Independent Trailing Suspension USER MANUAL</p> <p>5</p> <p>aliko-beh.com.au</p>	<p>AL-KO Enduro X Independent Trailing Suspension User Manual and Maintenance Guide</p> <p>Comprehensive user manual and maintenance guide for the AL-KO Enduro X Independent Trailing Suspension system, detailing features, benefits, servicing schedules, warranty information, and contact details for caravan and RV owners.</p>
 <p>AL-KO BETRIEBSANLEITUNG BENZIN-RASENMÄHER</p> <p>1</p> <p>10000</p>	<p>AL-KO Benzin-Rasenmäher Betriebsanleitung</p> <p>Betriebsanleitung für AL-KO Benzin-Rasenmäher, inklusive Sicherheitshinweisen, Montage, Wartung und Fehlerbehebung.</p>
 <p>AL-KO ESC OPERATING INSTRUCTIONS & WARRANTY DETAIL</p> <p>3</p> <p>aliko.com.au</p>	<p>AL-KO ESC Operating Instructions & Warranty Detail</p> <p>Comprehensive guide to the AL-KO ESC (Electronic Stability Control) system for caravans and trailers, covering operation, troubleshooting, wiring, and warranty information.</p>
 <p>AL-KO BENZIN STROMERZEUGER AL-KO 2500-C AL-KO 3500-C AL-KO 6500-C</p> <p>1</p> <p>10000</p>	<p>AL-KO Бензиновый Электрогенератор 2500-С / 3500-С / 6500-С Руководство по эксплуатации</p> <p>Полное руководство по эксплуатации для бензиновых электрогенераторов AL-KO моделей 2500-С, 3500-С и 6500-С. Включает технические характеристики, инструкции по безопасности, ввод в эксплуатацию, обслуживание и устранение неисправностей.</p>



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lang:en score:14 filesize: 61.67 M page_count: 628 document date: 2020-04-23