

AL-KO

QUALITY FOR LIFE

ENDURO
TOURING

Independent Trailing Suspension USER MANUAL



5
YEARS
WARRANTY

alko.com.au

Engineered for Adventure:

AL-KO Enduro Touring is an independent trailing arm suspension designed for on-road conditions including bitumen and well maintained unsealed roads.

Benefits of Independent trailing arm suspension

- Keeps the tyres in contact with the ground as much as possible. It is well suited for on road and off road applications.
- The low unsprung weight of Independent Suspension has less inertia and allows to follow road undulations easily, putting less loads into the chassis.
- It increases ground clearance in the centre of the vehicle and will allow for the fitting of ancillaries such as water tanks.

Automotive grade maintenance free bushes



Integrated Toe & Camber adjustment

Premium shock absorber

✓ ENGINEERED AND BUILT IN AUSTRALIA FOR AUSTRALIAN CONDITIONS

Designed, manufactured and rigorously tested for durability, control, comfort and choice of terrain.

✓ SUBJECTED TO AN EXTREME TESTING PROGRAM

Extensive testing has been undertaken at dedicated research and development facilities.

✓ FITTED WITH AL-KO PREMIUM HEAVY DUTY SHOCK ABSORBERS

✓ HIGH QUALITY COIL SPRINGS

Coil springs manufactured with high quality, high stress spring steel that is up to 30% lighter compared standard grade steel alternatives.

✓ MAINTENANCE FREE BUSHES

High quality maintenance free polyurethane suspension bushes require no additional grease after their initial installation.

✓ NO-COMPROMISE APPROACH

AL-KO is proud of its uncompromising approach. Each component within the AL-KO Enduro™ independent trailing arm suspension system is tested to ensure it meets the highest quality standards and to ensure compatibility with the latest caravan safety features, such as Tow Assist, AL-KO ESC & DEXTER sway control.

✓ DESIGNED BY THE GLOBAL MARKET LEADER

AL-KO is the global market leader in caravan suspension technology

✓ AUSTRALIAN WIDE RECOMMENDED SERVICE NETWORK

AL-KO has the most extensive service network in Australia, providing peace of mind that parts, service back-up and expert advice are never far away. For a full list of AL-KO Recommended Service Centres visit www.alko.com.au

AL-KO Enduro Touring

General Maintenance

Regular Servicing of your premium quality AL-KO Enduro Suspension and braking system will ensure you continue to have the peace of mind that any of our products offer.

AL-KO recommends that you service your caravan at regular intervals and that as a minimum you service your suspension as per the recommended maintenance schedule.

Check	Function Required	Daily checks	Initial checks	Periodic Maintenance	
				Every 5000 km or 6 months	Every 10000 km or 12 months
Trailer Brakes	Test that they are braking effectively	✓			✓
Tyre pressure	Inflate tyres to manufacturer's specifications	✓			
Wheel Nuts	Tight to proper torque specifications		Every 100km for the first 400kms	✓	
Wheel Rims	Inspect for dents, damage or out of round			✓	
Wheel bearings & cups	Inspect for wear or damage and lubricate				✓
Brake adjustment	De-Dust. Inspect for lining wear and adjust. After first		After first 300km to 1000km (Electric Drum)		✓
Suspension mounting bolts	M16 Check torque specifications		After first 300km to 1000km		✓
Shock absorber mounting bolts	M16 Check torque specifications		After first 300km to 1000km		✓
Shock absorber	visual check Visual check for leaks				✓
Suspension bush	Periodic visuals checks for impact damage				✓
Wheel alignment	Visual check for uneven tyre wear After first 1000 km		After first 1000km		✓
Bump Stop	Visual Check			✓	
Stub Mounting Bolts	M14 Check torque specifications		After first 300km to 1000km		✓

Tyre pressure

Ensure tyre pressures are set correctly for prolonged tyre life

Wheel Nuts

Whenever wheels are removed and refitted the wheel nut torque should be checked. Fit wheel nuts by hand to ensure correct fitment, prior to tightening to the torque specified by the wheel supplier.

Wheel bearings & cups

Every time the wheel hub is removed, the wheel bearings must be checked and adjusted.

Brake adjustment

Adjust park cable where fitted to allow sufficient slack to accommodate full suspension travel.

Suspension mounting bolts M16 (190 Nm)

Whenever suspensions are removed and refitted the bolt torque should be checked. Always use a calibrated torque wrench. Ensure new nyloc nuts are used for every installation.

Shock absorber mounting bolts M12 (85-90 Nm)

Whenever suspensions are removed and refitted the bolt torque should be checked. Always use calibrated torque wrench. Ensure new nyloc nuts are used for every installation and existing washers are reinstalled to the correct location.

Shock absorber visual check

Sweating, or just a small amount of fluid around the fluid filled tube is normal and not a fault. Defective shock absorbers should be replaced always in pairs. Ensure correct tightening torque of mounting bolts. Ensure new nyloc nuts are used for every installation.

Suspension bush

AL-KO Enduro Suspension bushes are lubricated by the initial suspension installer and are thereafter maintenance free. Re greasing at periodic maintenance inspection is OK but not mandatory.

Wheel alignment

Ensure recommended toe & camber values are set for prolonged tyre life. Adjustment of toe in or camber should be done by suitably qualified technician.

Stub Mounting Bolts M14 (180 Nm)

Whenever the stub axle is removed and refitted the nut torque should be checked. Fit nuts by hand to ensure correct fitment, prior to tightening to the torque 180Nm.

Axle Pivot Suspension Bushes

Lubrication is performed during assembly and should not be required on an ongoing basis.

Bushings can be subject to damage from external sources, so should be periodically visually checked for impact damage. Regreasing or internal inspection of the bushes would only be deemed necessary if noises or free play were evident.

Bump Stops

As these are the hardest working parts in the suspension, these require visual checks at regular service intervals. Bump stops should be visually inspected for:

- Deformation or compression
- Cracking around the contact area
- Splitting in the body of the bump stop
- Alignment to ensure correct contact angles

If any of these conditions exist it is recommended the bump stops be replaced on both sides.

Wheel Alignment Toe & Camber

The Enduro Suspension fitted to your RV or trailer will have had the appropriate “zero load” toe in and camber set during manufacture of the RV or trailer. Incorrect adjustment of either toe in or camber can affect tyre wear. Should you experience any irregularities we would suggest, prior to contacting an AL-KO Recommended Service Centre, that at least the parameters below be checked first:

- 1) RV or trailer laden weight (Must not exceed manufacturer’s trailer plate rating)
- 2) Correct tyre inflation pressure
- 3) Correct tyre capacity for the load being carried
- 4) Wheel balancing
- 5) Tyre condition
- 6) Wheel bearing adjustment

If you continue to experience tyre wear, please visit www.alko.com.au for a list of AL-KO Recommended Service Centres for AL-KO Enduro.

Recommended assembly torque

Please consult your AL-KO Recommended Service Centre for any considerations regarding assembly torque settings.

Please visit www.alko.com.au for a list of AL-KO Recommended Service Centres for AL-KO Enduro suspension.

Servicing your AL-KO Enduro Suspension

AL-KO recommends that you service your RV or Trailer at regular intervals and that as a minimum you service the suspension at the suggested intervals as follows

Initial Checks & Wheel Alignment inspection 100 – 1000km

1st Service 5,000km

2nd Service 10,000km

Thereafter we recommend your suspension be serviced at a minimum of once every 10,000km

Date:..... km: Authorised Service Agent:	Date:..... km: Authorised Service Agent:	Date:..... km: Authorised Service Agent:
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Warranty

AL-KO INTERNATIONAL PTY LTD

AL-KO ENDURO PRODUCT WARRANTY

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. AL-KO International Pty Ltd (ABN 96 003 066 813) (“AL-KO”) provides the following warranty in relation to its AL-KO Enduro product (“Product”). The benefits of this warranty are in addition to any rights and remedies imposed by Australian State and Federal legislation that cannot be excluded. Nothing in this warranty is to be interpreted as excluding, restricting or modifying any State or Federal legislation applicable to the supply of goods and services which cannot be excluded, restricted or modified.

WARRANTY

AL-KO warrants that, subject to the exclusions and limitations below, the Product will be free from defects in materials and workmanship for a period of 60 months from date of purchase. AL-KO may, at its discretion, offer a longer warranty term on certain products. This warranty is not transferable to a subsequent person if the Product is sold by the original purchaser during the warranty period. If a defect appears in the Product before the end of the warranty period and AL-KO finds the Product to be defective in materials or workmanship, AL-KO will, in its sole discretion, either: replace or repair the Product or the defective part of the Product free of charge; or b) cause the Product or the defective part of the Product to be replaced or repaired by a qualified repairer free of charge. AL-KO reserves the right to replace defective parts of the Product with parts and components of similar quality, grade and composition where an identical part or component is not available. Goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the goods.

WARRANTY PROCESS

1. If a fault covered by warranty occurs, the customer must within 7 days contact the dealer from which the Product was purchased, or AL-KO at the contact address listed below. 2. Any warranty claim must be accompanied by: a. proof of purchase; b. full details of the alleged defect; and c. any relevant documentation (such as maintenance records). 3. The customer must make the Product available to AL-KO or its authorised repair agent for inspection and testing within 14 days of contacting AL-KO or the dealer in accordance with this warranty claims procedure. If inspection and testing finds no defect in the Product, the customer must pay AL-KO's costs of service work and testing. 4. The cost of transportation to or from AL-KO or the authorised repair agent is to be paid by the customer.

EXCLUSIONS

The warranty will not apply where:

1. the Product has been repaired, altered or modified by someone other than AL-KO or an authorised repair agent;
2. the Product was improperly installed or used;
3. AL-KO cannot establish any fault in the Product after testing and inspection;
4. the Product has been used other than for the purpose for which it was designed;
5. the defect in the Product has arisen due to the customer's failure to properly use and maintain the Product in accordance with AL-KO's instructions, recommendations and specifications (including maintenance);
6. the Product has been subject to abnormal conditions, including environment, temperature, water, fire, humidity, pressure, stress or similar;
7. the defect has arisen due to abuse, misuse, neglect or accident;
8. the defect has arisen due to a power surge or other fault in the supply of electricity; or
9. unauthorised parts or accessories have been used on or in relation to the Product;
10. the defect is a deterioration of the appearance of the product;
11. the defect is a result of wear & tear.

LIMITATIONS

AL-KO makes no express warranties or representations other than set out in this warranty. The repair or replacement of the Product or part of the Product is the absolute limit of AL-KO's liability under this express warranty.

CONTACT

AL-KO International Pty Ltd

67 Nathan Road, Dandenong South, Victoria, 3175

Phone: (03) 9997 4500

Email: info.aus@alko-tech.com



Register your warranty at

www.alko.com.au

Option 2. Scan this code to register your warranty



“The personal information disclosed to us by you will be used for the purposes of identifying you if you wish to make a claim under the warranty, and for dealing with that claim. We may also use your information to communicate with you about our product and promotions.

Your information will only be disclosed to third parties where necessary to assess or complete your claim such as suppliers or distributors of our products, or to government bodies such as Vic Roads (or equivalent). If you do not complete all the information contained on the card, we may not be able to provide you with a warranty.

If you would like to access the personal information held by us about you, please contact our Privacy Officer on (03) 9997 4500.”

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Visit
www.alko.com.au
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