

OWNER'S MANUAL

PLANT TRAILERS

KING KONG TRAILERS PTY LTD

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Range:

10×5 Galvanized Plant Trailer 3500kg ATM

10×6 Galvanized Plant Trailer 3500kg ATM



**KING KONG
TRAILERS**

IMPORTANT: Ongoing Product Notice:

Trailer designs and specifications may be subject to updates or improvements without prior notice. Please visit our website or contact our team to ensure you have the latest product information, service notices, or recalls.

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1.0 INTRODUCTION

Thank you for purchasing a King Kong Plant Trailer. Each trailer is engineered for durability, strength, and reliability. It is designed for the safe and efficient transport of small plant machinery such as mini excavators, compact loaders, and scissor lifts.

This manual provides essential guidance on safe operation, inspection, maintenance, and compliance with Australian Design Rules (ADR) and Work Health and Safety (WHS) regulations. Please read this manual carefully before operating your trailer.

We recommend keeping this manual with the trailer at all times and referring to it before each trip or when performing regular checks. If you have any questions or concerns, our friendly team is always ready to assist. This manual is designed to support the safe operation, correct maintenance, and long-term performance of your King Kong Plant Trailer.

For detailed product information, specifications, and photos, please visit:

🔗 <https://kingkongtrailers.com.au/product-category/plant-trailer>

1.1 Legal Responsibility:

It is the owner's responsibility to ensure that the trailer is registered, roadworthy, and compliant with all relevant state and federal transport regulations. The owner must ensure that the trailer is towed only by a suitably rated vehicle and that both the vehicle and trailer meet Australian Design Rules (ADR) standards at all times.

Always confirm the following before operating or towing your trailer:

- The trailer's registration is current and valid in your state or territory.
- The Aggregate Trailer Mass (ATM) does not exceed the rating shown on the compliance plate.
- All lights, reflectors, safety chains, and brakes are in working condition and meet ADR requirements.
- The towing vehicle is equipped with an approved electric brake controller for trailers fitted with electric brakes.
- Any modifications or structural repairs are performed in accordance with relevant Australian Standards and with approval from King Kong Trailers.

Failure to comply with legal requirements may result in fines, penalties, or voided warranty coverage. Always refer to your local transport authority for the latest information regarding trailer registration, inspection, and towing regulations.

2.0 SAFETY INFORMATION

Your safety and that of others is our highest priority. Please read and follow the safety guidelines below before operating, loading, or towing your trailer. Improper use or neglect can lead to serious injury, property damage, or voided warranty coverage.

2.1 General Safety Guidelines

- Always comply with all applicable Australian road rules and towing laws.
- Confirm that your towing vehicle is rated to pull the total loaded weight of the trailer.
- Do not exceed the Aggregate Trailer Mass (ATM) or axle capacity stated on the compliance plate.
- Ensure all trailer lights, reflectors, and the registration plate are clean, visible, and working.
- Wear appropriate Personal Protective Equipment (PPE) such as gloves, steel-capped boots, and eye protection when operating or maintaining the trailer.
- Never allow people or animals to ride in or on the trailer.
- Park only on level, firm ground when loading, unloading, or unhitching.
- Keep hands and feet clear of moving parts, ramps, and tie-down chains.

2.2 Pre-Departure Inspection

Before each trip, perform a visual and functional check of the trailer:

- Inspect tyres for pressure, tread, and sidewall damage.
- Confirm that wheel nuts are tight and hub bearings rotate smoothly.
- Check that ramps, latches, and safety pins are fully secured.
- Inspect the coupling for correct engagement and verify that safety chains are attached in a crossed pattern.
- Test all brake lights, indicators, and taillights.

- Ensure the breakaway battery is charged and functional.
 - Confirm that the load is evenly distributed and properly secured using rated tie-down straps or chains.
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2.3 Loading Safety

- Only load the trailer on firm, level ground.
 - Always chock trailer wheels before loading or unloading.
 - Confirm that the ramps are fully lowered, locked into the ramp carriers, and free of debris.
 - Drive machinery slowly and centrally up the ramps, avoiding sudden acceleration or braking.
 - Keep all bystanders clear from the loading zone.
 - Never stand between the trailer and the machinery being loaded.
 - Check that tie-down points and chains are not worn or damaged before use.
 - After loading, fold the ramps securely into their transport position and engage all locking pins.
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2.4 Towing Safety

- Ensure that 10 to 15 percent of the total trailer weight is applied as tow ball load.
 - Always use rated D-shackles when attaching safety chains.
 - Allow greater braking distance when towing, particularly under load or downhill.
 - Avoid sudden lane changes, sharp turns, or rapid acceleration.
 - Observe the maximum towing speed limit in your state or territory.
 - Use towing mirrors if the trailer width exceeds that of the towing vehicle.
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2.5 Maintenance and Operating Safety

- Service the trailer at regular intervals as described in Section 7.
- Check that all fasteners, springs, and bolts are tight and free of corrosion.
- Inspect hydraulic or electric brake systems for leaks or damage.
- Replace worn or damaged components immediately using approved King Kong Trailers parts.
- Do not modify, weld, or drill the trailer frame without written approval from King Kong Trailers.

2.6 Emergency Procedures

- Safely pull over and apply the towing vehicle's handbrake.
- Switch off the towing vehicle engine.
- Keep bystanders away and assess for hazards such as leaking fuel or hydraulic fluid.
- If safe to do so, use wheel chocks to prevent further movement.
- Report any structural damage or brake failure to King Kong Trailers before reuse.

2.7 Risk Control Summary

King Kong Trailers adopts a proactive, risk-based approach to ensure that all operators and bystanders remain safe during towing, loading, unloading, and maintenance activities. The following table summarises key risk areas and the corresponding control measures that must be followed at all times.

Risk Area	Potential Hazard	Control Measure
Overloading	Excessive load causing axle or tyre failure	Do not exceed the Aggregate Trailer Mass (ATM) listed on the compliance plate. Verify the total load weight using a weighbridge if necessary.

Risk Area	Potential Hazard	Control Measure
Unbalanced Load	Loss of stability during towing or loading	Distribute load evenly over both axles. Keep the heaviest weight slightly forward of the axle centre line and maintain 10 to 15 percent tow ball mass.
Equipment Movement	Machinery shifting during transit	Secure all equipment using rated tie-down chains or straps at approved anchor points. Inspect restraints for wear or damage before use.
Improper Ramp Use	Ramp collapse or machinery slippage	Ensure ramps are fully engaged with the trailer floor and locked with safety pins before driving on or off. Operate on level, stable ground only.
Brake Failure	Inability to stop safely	Test electric brakes and the breakaway unit before each trip. Service brake components regularly as per Section 7.
Tyre Failure	Blowouts or loss of control	Maintain tyre pressures as specified, inspect for cuts or bulges, and replace tyres older than five years.
Electrical Fault	Inoperative lights or brake signal	Check plug connections and wiring for corrosion or loose contacts before travel. Apply dielectric grease to prevent rust.
Environmental Hazards	Working on slopes, soft ground, or poor visibility	Always load and park on firm, level ground. Avoid wet or unstable surfaces. Use wheel chocks and ensure adequate lighting when operating at dusk or night.
Human Error	Inattention or unsafe behaviour	Follow safe operating procedures. Keep all bystanders clear of the loading zone. Never stand near ramps or under raised equipment.

2.8 Modifications Warning

Do not modify, weld, drill, or alter any part of the trailer without written approval from King Kong Trailers. Unauthorised modifications may compromise structural integrity, stability, and braking performance, which can result in unsafe operation and void all warranty coverage.

This includes but is not limited to:

- Welding or cutting the chassis, drawbar, or suspension components
- Changing or replacing the coupling, axles, or brakes with non-approved parts
- Modifying the electrical system, lighting, or breakaway unit
- Adding equipment such as cranes, toolboxes, or ramps that exceed rated load capacity
- Repainting or powder-coating over galvanised surfaces without proper preparation

Only genuine King Kong Trailers components and approved accessories should be used for repairs or upgrades. If modifications are required for specific applications, written approval must be obtained from King Kong Trailers prior to any work being carried out.

Failure to comply with this requirement may lead to serious safety risks, mechanical failure, or legal non-compliance under Australian Design Rules (ADR) and Work Health and Safety (WHS) regulations.

3.0 SPECIFICATIONS OVERVIEW

King Kong Plant Trailers are built for strength, stability, and durability, using fully hot-dip galvanised steel construction to withstand demanding commercial conditions. Each model is engineered to safely transport small to medium-sized plant machinery while maintaining compliance with all Australian Design Rules (ADR) and road safety standards.

The specifications below outline the standard design features of the 10×5 and 10×6 Galvanized Plant Trailer range.

3.1 Model Specifications

10×5 Galvanized Plant Trailer 3500kg ATM

- Chassis: Fully hot-dip galvanised RHS steel construction with cross-braced floor support
- ATM: 3500 kg
- Axle Configuration: Tandem axle with rocker roller suspension
- Brakes: Full electric brakes on all wheels with breakaway system
- Coupling: 50 mm electric brake coupling with dual safety chains

- Floor: Heavy-duty checker plate floor with integrated tie-down points
- Ramps: Rear fold-up ramps with spring assist and safety latch system
- Lighting: ADR-approved LED taillights, indicators, clearance lights, and number plate light
- Wheels and Tyres: 15" light truck tyres on Sunraysia rims
- Finish: Hot-dip galvanised inside and out for corrosion resistance

10×6 Galvanized Plant Trailer 3500kg ATM

- Chassis: Reinforced galvanised RHS frame with additional mid-span supports
- ATM: 3500 kg
- Axle Configuration: Tandem axle with rocker roller suspension
- Brakes: 4-wheel electric brakes, ADR compliant, with inbuilt breakaway safety battery
- Coupling: 50 mm ball-type electric brake coupling
- Floor: Checker plate deck with central drain holes for easy cleaning
- Ramps: Full-width fold-up ramps with adjustable spring tension and side-lock pins
- Lighting: ADR-certified LED lighting system with waterproof connectors
- Wheels and Tyres: 15" light truck tyres (8-ply minimum)
- Finish: Full hot-dip galvanising, optional black powder-coat overlay available

3.2 Standard Features Across All Models

- Fully hot-dip galvanised chassis and drawbar for corrosion protection
- Tandem rocker roller suspension for stable load distribution
- 50 mm coupling with dual 10 mm safety chains and rated D-shackles
- Full electric brake system with emergency breakaway battery
- Heavy-duty checker plate floor with recessed tie-down rings
- Fold-up rear ramps with spring assist and locking latch pins
- ADR-approved LED lighting with waterproof wiring harness
- Jockey wheel with swivel mount and top-wind handle
- Mudguards with integrated step plates

- VIN compliance plate and serial number identification

Note: Specifications are subject to change due to ongoing product improvements and supplier variations. Always refer to the VIN compliance plate on your trailer for the most accurate model-specific data.

For diagrams and detailed specs, visit:

🔗 <https://kingkongtrailers.com.au/product-category/plant-trailer>

4.0 Coupling and Hitching Instructions

Proper towing and hitching procedures are essential for safe trailer operation. Before each journey, ensure that both the towing vehicle and trailer are on level ground and that all safety components are correctly connected and functional.

Note:

All King Kong Plant Trailers are equipped with an ADR 62/02 compliant coupling system. The following procedures must be followed each time the trailer is connected or disconnected from a towing vehicle to ensure safe and legal operation on Australian roads.

4.1 Step-by-Step Hitching Procedure

1. **Park on Level Ground**

Ensure both the trailer and towing vehicle are on a flat, stable surface. Engage the towing vehicle's handbrake and chock the trailer wheels.

2. **Align the Coupler and Tow Ball**

Reverse the towing vehicle slowly until the tow ball is positioned directly beneath the trailer coupling head.

3. **Lower the Coupling**

Use the jockey wheel to lower the coupling head onto the tow ball. Check that the ball and socket are free from dirt and debris before connection.

4. **Lock the Coupling**

Engage the coupling latch fully and insert the safety pin to secure. Confirm that the coupling is seated correctly by lifting the drawbar slightly to verify that it cannot separate from the ball.

5. **Attach Safety Chains**

Cross both chains beneath the coupling to form an “X” pattern. Secure them to the towing vehicle using rated D-shackles. The chains must allow for full turning movement without dragging on the ground.

6. **Connect the Electrical Plug**

Insert the 7-pin flat plug into the vehicle socket. Test all trailer lights, including brake, indicator, and taillight functions.

7. **Connect the Breakaway Cable**

Attach the breakaway cable directly to a fixed point on the towing vehicle (not the tow ball). Ensure the cable is not twisted or tight during turns.

8. **Check Brakes and Battery**

If fitted with electric brakes, ensure the towing vehicle’s brake controller is active. Confirm that the breakaway battery is fully charged and the switch operates correctly.

9. **Retract and Secure the Jockey Wheel**

Raise the jockey wheel to its upper position or remove it entirely if detachable. Secure it firmly to prevent movement during travel.

10. **Final Walkaround Inspection**

Ensure ramps are folded and locked, tie-downs are tight, pins are secured, and the load is stable before moving.

4.2 Unhitching Procedure

- Park on level ground and apply both the vehicle handbrake and trailer handbrake.
- Place wheel chocks behind trailer tyres.
- Disconnect the electrical plug and breakaway cable.
- Unhook the safety chains from the towing vehicle.
- Release the coupling latch and use the jockey wheel to raise the coupling clear of the tow ball.
- Slowly move the vehicle forward, ensuring the trailer remains stable and stationary.

4.3 Coupling Inspection and Maintenance

- Inspect the coupling head and tow ball for wear, cracks, or deformation every month.
- Keep all moving parts clean and lubricated with appropriate grease.
- Replace the safety pin and D-shackles if worn or corroded.
- Ensure the coupling handle moves freely and locks securely in position.
- Confirm that the bellows or dust cover (if fitted) is undamaged and properly seated.

4.4 Coupling Safety Tips

- Never attempt to hitch or unhitch on a slope or uneven surface.
- Do not use a worn or undersized tow ball. Always use a 50 mm ball compliant with ADR 62/02.
- Never rely solely on the jockey wheel for support when loading or unhooking.
- Always check the trailer level and balance before travel.
- Re-check all connections and lights after driving a short distance from your starting point.

5.0 Loading and Securing Equipment

Proper loading and securing of machinery is essential for safe transport and to prevent accidents or equipment damage. Always follow the instructions below when loading, unloading, or transporting machinery on your King Kong Plant Trailer.

5.1 Preparation Before Loading

- Park the towing vehicle and trailer on firm, level ground.
- Apply the towing vehicle's handbrake and chock the trailer wheels.
- Ensure that ramps are clean, dry, and free of mud, oil, or debris.
- Inspect all tie-down points and ramps for visible damage before use.
- Remove any loose objects from the trailer deck that could shift during loading.

- Confirm that the Aggregate Trailer Mass (ATM) will not be exceeded once machinery is loaded.
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5.2 Ramp Setup and Inspection

- Fully lower the ramps and make sure the base of each ramp is resting flat on solid ground.
 - Check that all ramp hinge pins and retaining clips are secure.
 - Engage the ramp latch lock or safety bar (if fitted) before driving machinery onto the trailer.
 - Never load on uneven, sloped, or soft ground that may cause ramps to move or sink.
 - If ground conditions are poor, use ramp stabiliser blocks or plates to spread weight.
 - Ensure the ramp angle allows safe and gradual ascent for machinery with low ground clearance.
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5.3 Loading Machinery

- Drive or winch machinery slowly up the ramps while maintaining a straight line.
 - Keep the machinery centred on the trailer deck at all times.
 - Avoid sudden acceleration, braking, or turning during loading.
 - Have a second person act as a spotter if visibility is limited.
 - Once the machine is positioned, apply its park brake and lower any attachments (such as buckets or blades) to the trailer floor.
 - Shut down the engine and remove the key before securing.
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5.4 Securing the Load

- Use only rated tie-down chains or heavy-duty ratchet straps suitable for machinery transport.

- Secure the load at a minimum of four points, attaching to the manufacturer's designated anchor points on both the trailer and the equipment.
 - Ensure tie-downs are tensioned evenly and not twisted.
 - Inspect all straps and chains for wear, corrosion, or fraying before use.
 - After 5 to 10 kilometres of travel, stop and recheck the tightness of all tie-downs.
 - Do not use ropes, elastic cords, or other non-rated restraints.
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5.5 Weight Distribution and Balance

- Position the heaviest part of the machinery slightly forward of the axle centreline.
 - Maintain approximately 10 to 15 percent of total trailer weight on the towing vehicle's tow ball.
 - Do not overload one side of the trailer, as uneven loading may cause sway or tyre wear.
 - Keep the centre of gravity as low as possible by lowering booms or arms on equipment.
 - Avoid stacking items above the trailer's headboard height.
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5.6 Ramp Storage After Loading

- Once loading is complete, raise both ramps to the upright position.
 - Engage all ramp latch pins, retaining clips, or side locks.
 - Check that ramps are fully secured and cannot move during transport.
 - Confirm there is adequate clearance between ramps and the load before towing.
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5.7 Unloading Procedure

- Park on level, firm ground and chock the wheels before releasing restraints.
- Lower the ramps fully and ensure they are locked in place before moving the machinery.

- Remove all tie-down chains or straps, starting from the rear of the load.
 - Start the machinery only when all bystanders are clear.
 - Drive slowly and in a straight line down the ramps.
 - After unloading, clean the ramps and deck to remove dirt or debris before folding them back up.
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6.0 BRAKING SYSTEM

All King Kong Plant Trailers with a Gross Trailer Mass (GTM) above 3200 kg are fitted with a full electric braking system and a breakaway safety unit. This system ensures maximum braking performance and compliance with Australian Design Rule ADR 38/05. Proper inspection, testing, and maintenance of the braking system are essential for safe towing and long-term reliability.

6.1 Key Components

- **Electric Brakes**
Installed on all wheels and operated by an electric brake controller. The system applies proportional braking pressure in response to the towing vehicle's brake pedal.
 - **Breakaway System**
Automatically activates the trailer brakes in the event that the trailer becomes detached from the towing vehicle. The system includes a rechargeable battery, activation switch, and breakaway cable.
 - **Brake Controller**
Must be set according to trailer load and road conditions. It should be tested before every trip.
 - **Wiring and Connectors:**
The brake system is powered through the 7-pin flat plug. Ensure all wiring connections are clean, dry, and free from corrosion.
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6.2 Routine Brake Checks

Perform the following checks before each trip or during scheduled maintenance:

- Confirm that the towing vehicle brake controller powers on and responds to manual override.
- Test brake lights and ensure that the trailer brakes engage when the vehicle brakes are applied.
- Pull the breakaway pin manually to ensure that all trailer wheels lock and that the breakaway battery is charged.
- Check the battery voltage with a multimeter. A fully charged 12 V battery should read between 12.6 V and 13.0 V.
- Inspect brake wiring for frayed insulation, exposed conductors, or corroded terminals.
- Listen for any scraping or uneven braking noise while towing. This may indicate worn brake shoes or drums.

6.3 Brake Adjustment and Service

- Adjust brakes after the first 1000 km of use, then every 6 months or 5000 km thereafter.
- Jack up each wheel and rotate it by hand. The wheel should spin freely with a light, even drag from the brake shoes.
- If adjustment is required, turn the brake adjuster (located at the back of the hub) until slight resistance is felt, then back off slightly until the wheel rotates smoothly.
- Inspect brake linings and magnets for wear or heat damage. Replace if thickness is below manufacturer specifications.
- Repack wheel bearings with high-temperature grease during each service.
- Replace any damaged electrical connectors using waterproof, heat-shrink type fittings.

6.4 Troubleshooting Guide

Issue	Possible Cause	Recommended Action
Brakes do not engage	Faulty connection, flat breakaway battery, or incorrect controller setting	Check plug connections, charge battery, and verify controller gain settings.
Brakes grab or lock suddenly	Brake controller gain too high or worn brake components	Reduce controller gain or inspect and replace worn parts.
Brakes feel weak	Loose wiring or unadjusted brake shoes	Inspect all wiring and adjust brakes according to Section 6.3.
Breakaway system does not activate	Faulty switch or low battery voltage	Replace breakaway switch or charge/replace the battery.

6.5 Safety Notes

- Always test the braking system in a safe, open area before towing on public roads.
- Never tow a loaded trailer without a functioning brake controller.
- Do not bypass or modify the breakaway circuit.
- Replace any damaged or corroded wiring immediately.
- Never use the breakaway switch as a parking brake.

For technical support or parts, contact **King Kong Trailers** on **1300 311 333** or visit www.kingkongtrailers.com.au

7.0 Maintenance Schedule

Routine maintenance is essential to ensure the long-term safety, reliability, and warranty compliance of your King Kong Plant Trailer.

All maintenance and inspections should be performed by qualified personnel using approved parts and lubricants.

Trailers used frequently, off-road, or in commercial operations may require more frequent servicing.

7.1 Maintenance Intervals

Interval	Inspection / Service Required
Before Each Trip	• Check tyre pressure and condition. • Inspect wheel nuts for tightness. • Test all lights, indicators, and brake functions. • Verify ramps, pins, and tie-downs are secure. • Confirm coupling and safety chains are in good condition. • Check the breakaway cable and battery charge.
Every 1000 km or Monthly	• Inspect electric brake operation using the controller test function. • Grease coupling head and jockey wheel thread. • Check wheel bearings for free rotation and noise. • Lubricate moving parts such as hinges, ramp pivots, and door latches. • Clean and inspect chassis for rust or cracks. • Tighten all bolts and U-bolts to manufacturer torque.
Every 10,000 km or 6 Months	• Remove hubs and inspect bearings, seals, and brake linings. • Repack bearings with high-temperature grease. • Adjust brakes to ensure even braking response. • Test the breakaway system by manually pulling the switch pin. • Inspect and clean electrical connectors with dielectric grease. • Check suspension bushes, shackles, and spring hangers for wear.
Every 20,000 km or Annually	• Conduct a full structural inspection of the chassis and drawbar. • Check for weld fatigue, corrosion, or deformation. • Replace brake shoes, magnets, or wiring if worn or damaged. • Drain and replace breakaway battery if capacity is below specification. • Inspect coupling head and replace worn components.

Interval	Inspection / Service Required
	• Refinish galvanised surfaces with zinc spray if damaged. • Verify compliance with all ADR and registration requirements.

7.2 Maintenance Tips

- Keep detailed records of all maintenance performed. Use the Service Log Book in Section 12.
- Wash and rinse the trailer after exposure to salt, mud, or chemicals.
- Do not use high-pressure water on electrical connectors or brake assemblies.
- Use only manufacturer-approved lubricants and replacement parts.
- Always torque wheel nuts and suspension bolts to the recommended specifications after service.

Note:

For detailed torque settings and technical specifications, refer to King Kong Trailers service documentation or contact our service department for guidance.

7.3 Lubrication Points

Component	Lubricant Type	Service Interval
Coupling Head	Multi-purpose grease	Monthly
Drawbar Pivot & Hinges	Long-life lithium grease	Monthly
Jockey Wheel Thread	High-pressure grease	Monthly
Ramp Hinges & Latch Pins	Long-life lithium grease	Monthly
Wheel Bearings	High-temperature bearing grease	6 Months
Brake Linkages	Anti-seize or lithium grease	6 Months

7.4 Safety Reminder

Failure to perform scheduled maintenance can lead to premature wear, brake failure, or structural damage.

Always inspect your trailer before travel and address any issues immediately.

A well-maintained trailer ensures safety, compliance, and dependable performance.

8.0 Tyre and Wheel Safety

Tyres and wheels are critical to the safety and performance of your trailer. Proper inspection, inflation, and maintenance prevent blowouts, improve handling, and extend tyre life. Always ensure your tyres and wheel assemblies are in good condition before towing.

8.1 Tyre Safety Guidelines

- Check tyre pressure before every trip when tyres are cold.
- Inflate tyres to the manufacturer's recommended pressure shown on the tyre sidewall.
- Under-inflation can cause heat build-up and premature failure. Over-inflation can reduce grip and increase wear in the centre of the tread.
- Visually inspect each tyre for cracks, bulges, cuts, or embedded objects such as nails or stones.
- Remove debris lodged between tread blocks and ensure tread wear is even across the tyre.

8.2 Tread Depth and Tyre Age

- Replace tyres when tread depth is less than 1.5 mm or when uneven wear is visible.
- Australian road standards require all tyres to have visible tread grooves over at least 75 percent of their width.

- Replace tyres that are more than five years old, even if they appear in good condition.
 - The tyre's manufacturing date can be found in the DOT or E-mark code on the sidewall. The last four digits indicate the week and year of manufacture (for example, 1822 = week 18 of 2022).
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8.3 Wheel and Rim Inspection

- Inspect rims for cracks, rust, or deformation.
 - Check around the stud holes and valve openings for signs of fatigue or elongation.
 - Ensure there are no dents or gouges on the rim edge where the tyre bead seats.
 - Replace any wheel that shows distortion, excessive corrosion, or damage from impact.
 - Do not weld or attempt to repair damaged rims. Always replace with a new wheel of the same rating and offset.
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8.4 Wheel Nut Checks

- Check the tightness of all wheel nuts before each trip and again after the first 50 km of travel following wheel installation or tyre replacement.
 - Tighten wheel nuts gradually in a crisscross pattern to ensure even clamping.
 - If a wheel has been removed for maintenance, recheck nut tightness after 100 km of use.
 - Replace any damaged wheel studs or nuts immediately.
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8.5 Tyre Load and Speed Rating

- Always use tyres that meet or exceed the load and speed ratings specified for your trailer's Aggregate Trailer Mass (ATM).
- The rating is marked on the tyre sidewall, for example "Load 109/107" or "Speed N".
- Using tyres below the required rating may lead to failure and void warranty coverage.

- Light Truck (LT) tyres are recommended for all King Kong Plant Trailers.
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8.6 Storage and Maintenance Tips

- Store the trailer on level ground and out of direct sunlight where possible.
 - If the trailer will be unused for long periods, elevate it slightly to relieve pressure on tyres
 - Keep tyres clean and free from oil, grease, and chemicals.
 - Inspect and clean valve stems. Replace valves if cracked or leaking.
 - Do not use tyre shine products containing petroleum solvents on rubber surfaces.
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8.7 Wheel Bearing and Hub Checks

- *Inspect hubs and bearings at least every six months or 10,000 km.*
 - *Jack up each wheel and spin it to check for smooth rotation and noise.*
 - *Excessive play or roughness indicates bearing wear and requires servicing.*
 - *Repack bearings with high-temperature wheel bearing grease during maintenance as described in Section 7.*
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8.8 Safety Reminder

Tyre and wheel maintenance is one of the most critical factors in trailer safety. A single failed tyre can cause loss of control and severe damage. Always check tyres, wheels, and bearings before travel, and replace any components that show signs of wear or damage.

9.0 Electrical System

All King Kong Plant Trailers are equipped with a fully ADR compliant LED lighting and braking system.

These systems are designed for durability, low power consumption, and improved visibility

during both day and night operation.

Proper maintenance of electrical connections is essential to ensure road safety and legal compliance.

9.1 Standard Electrical Features

- 7-pin flat plug connection, compatible with most Australian towing vehicles.
- Fully sealed LED taillights, brake lights, indicators, and number plate light.
- Amber clearance lights on the sides for visibility in low-light conditions.
- Waterproof junction boxes and wiring harness for corrosion resistance.
- Integrated breakaway safety battery and switch for electric brake systems.

9.2 Inspection and Maintenance

- Check all lights before each trip. Ensure indicators, brake lights, and taillights function correctly.
- Confirm the trailer plug fits securely into the vehicle socket and that the pins are clean and straight.
- Inspect wiring for cuts, cracks, or exposed conductors, especially near suspension and drawbar areas.
- Clean connectors using electrical contact cleaner or dielectric grease to prevent corrosion.
- Check the breakaway battery charge monthly and recharge if voltage drops below 12.4 volts.
- Verify that cables are routed securely and are not rubbing against moving parts or sharp edges.

9.3 Common Electrical Faults and Solutions

Symptom	Possible Cause	Action
One light not working	Burnt-out LED module or damaged connector	Check the affected light's plug and wiring. Replace module if defective.
All lights not working	Disconnected or corroded trailer plug	Inspect plug pins for corrosion and clean with contact spray.
Indicators flash rapidly	One or more LEDs not functioning	Replace the faulty light or check for poor earth connection.

Symptom	Possible Cause	Action
Dim or flickering lights	Loose ground or poor contact	Clean plug terminals and ensure ground wire is firmly connected.
Brakes not engaging	Fault in electric brake wiring or controller	Check brake controller output and trailer wiring continuity.
Breakaway system not activating	Flat battery or damaged switch	Charge or replace battery and test breakaway function.

9.4 Maintenance Tips

- Do not modify the wiring layout or splice additional lights without consulting King Kong Trailers.
- Use only waterproof connectors and heat-shrink fittings for electrical repairs.
- Avoid high-pressure washing directly on lights, plugs, or junction boxes.
- If the trailer is stored for extended periods, disconnect the plug and cover it to prevent moisture ingress.
- Check operation of the breakaway switch and brake light circuit monthly.
- Keep the 7-pin plug covered when not in use to prevent dust and corrosion.

9.5 Electrical System Compliance

All lighting and wiring systems installed on King Kong Plant Trailers comply with the following Australian Standards:

- ADR 13/00 Installation of Lighting and Light Signalling Devices
- ADR 38/05 Trailer Brake Systems
- ADR 42/04 General Safety Requirements

Only approved LED assemblies and harnesses should be used for replacement. Use of non-compliant lighting components may result in registration rejection or voided warranty.

10.0 Warranty and Support

King Kong Trailers stands behind the quality and performance of every Plant Trailer we manufacture.

Each trailer is built to meet Australian standards and undergoes inspection prior to delivery. Our warranty provides assurance that your trailer will perform safely and reliably when used under normal operating conditions.

10.1 Warranty Coverage

Structural Warranty:

Five-year coverage applies to the main chassis, drawbar, and frame structure.

This covers defects in material or workmanship under normal use and maintenance.

Component Warranty:

Twelve-month coverage applies to:

- Suspension and leaf springs
- LED lights and electrical wiring harness
- Coupling and safety chains
- Jockey wheels, ramps, and hinges
- Electric brakes, magnets, and breakaway system

All warranty repairs must be performed using genuine King Kong Trailers parts or approved equivalents.

10.2 Warranty Conditions

- Warranty applies only to the original purchaser and is not transferable.
- Proof of purchase must be provided for any warranty claim.
- The trailer must be serviced and maintained in accordance with Section 7 of this manual.
- Repairs or modifications made without prior written approval from King Kong Trailers will void the warranty.
- All claims must be submitted in writing with clear photos or video and a description of the fault.

- King Kong Trailers reserves the right to inspect the trailer before approving any warranty claim.
-

10.3 Warranty Exclusions

- The warranty does not cover:
 - Normal wear and tear such as tyres, bearings, brake pads, paint, or coatings.
 - Damage caused by misuse, overloading, impact, or neglect.
 - Corrosion resulting from failure to clean after exposure to salt, fertilisers, or chemicals.
 - Damage due to improper loading, towing, or unapproved alterations.
 - Labour, freight, or transport costs unless pre-approved by King Kong Trailers.
-

10.4 Product Recall and Safety Notices

In the rare event of a product recall or safety notice, King Kong Trailers will:

- Publish the official notice on our website.
- Notify registered trailer owners by email where possible.
- Provide replacement parts or repair instructions as required.

Owners are responsible for keeping their contact information current to ensure receipt of any future notices or updates.

10.5 Customer Support

Our customer service team is available to provide technical support, parts assistance, and maintenance advice.

Contact Details:

Website: www.kingkongtrailers.com.au

Email: info@kingkongtrailers.com.au

Phone: 1300 311 333

Address: 3 Peachtree Road, Penrith NSW 2750, Australia

For the fastest assistance, please include your trailer model, VIN, and purchase date when contacting our support team.

11.0 Risk Management Statement

King Kong Trailers applies a structured, risk-based approach to ensure the safety of operators, bystanders, and property at all times.

This policy is integrated into the design, manufacture, and operational use of all King Kong trailers, including the Plant Trailer range.

The following principles form the foundation of our risk management and safety assurance process.

11.1 Key Risk Control Measures

- **Routine Inspection and Maintenance**
All trailers must be inspected and serviced in accordance with Section 7 to ensure the safe operation of braking, coupling, and suspension systems.
- **Safe Operating Procedures**
Operators must follow the safety instructions outlined in Section 2 when towing, loading, or unloading machinery.
Only trained and competent persons should operate equipment loaded on the trailer.
- **Use of Personal Protective Equipment (PPE)**
Appropriate PPE such as gloves, safety boots, and eye protection must be worn when loading, securing, or maintaining the trailer.
- **Load Restraint and Distribution**
Equipment must be secured using rated chains or straps at all designated tie-down points. Loads must be balanced across both axles, keeping the heaviest weight slightly forward of the axle centre line.
- **Environmental Assessment**
Operators must assess ground conditions and weather before loading or unloading. Avoid soft, sloped, or unstable surfaces that could cause movement or tipping.
- **Fault Response**
Operation must cease immediately if any structural defect, brake fault, electrical issue, or coupling damage is identified.

The trailer should not be used again until the defect is rectified and verified by qualified personnel.

11.2 Company Commitment

King Kong Trailers is committed to continuous improvement in product design, workplace safety, and customer education.

Our trailers are built in compliance with Australian Design Rules (ADR) and relevant Work Health and Safety (WHS) Codes of Practice.

By following the procedures and maintenance recommendations provided in this manual, owners and operators help ensure the safe and reliable performance of their King Kong Plant Trailer for years to come.

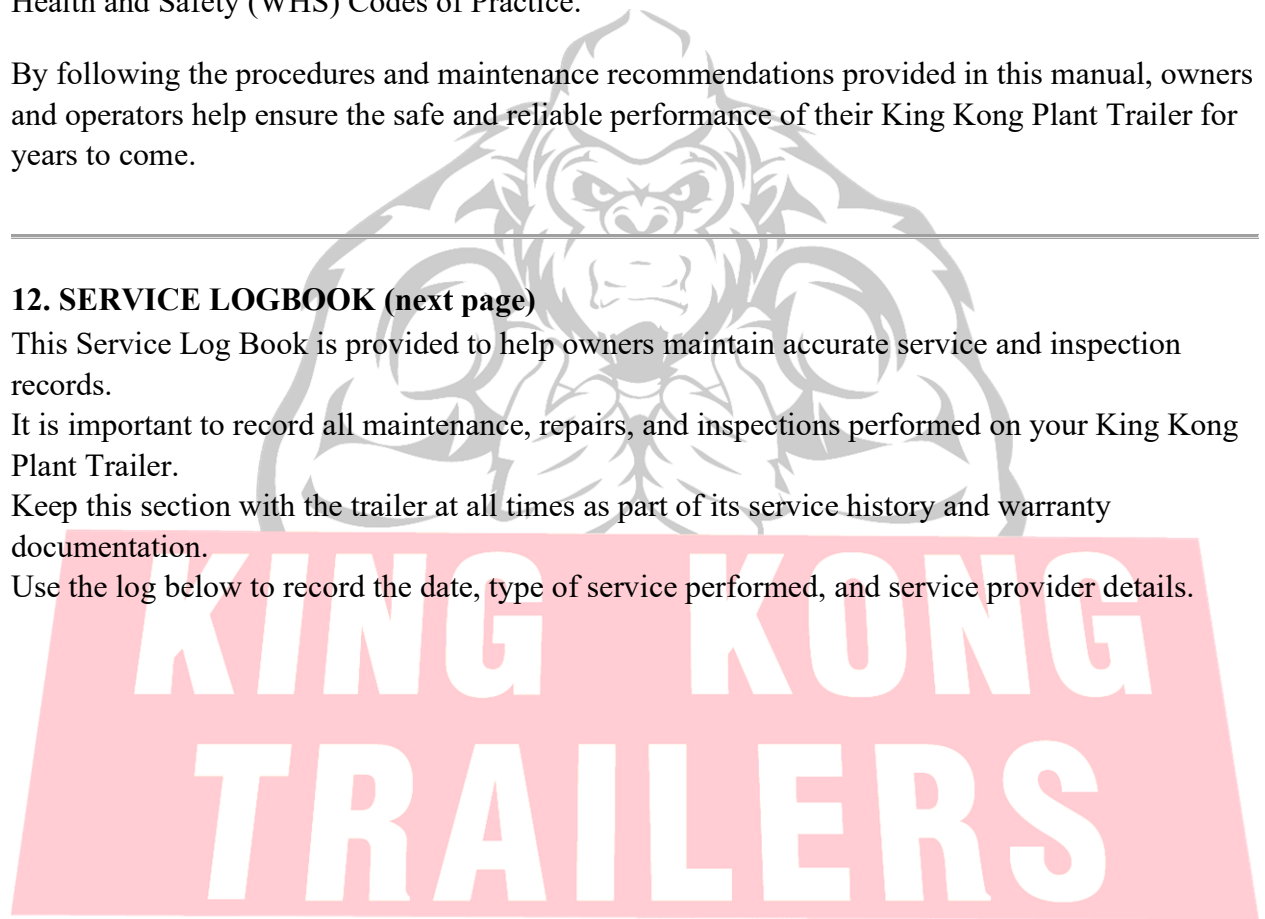
12. SERVICE LOGBOOK (next page)

This Service Log Book is provided to help owners maintain accurate service and inspection records.

It is important to record all maintenance, repairs, and inspections performed on your King Kong Plant Trailer.

Keep this section with the trailer at all times as part of its service history and warranty documentation.

Use the log below to record the date, type of service performed, and service provider details.



**KING KONG
TRAILERS**

Table: Printable log sheet

Date	Service Performed	Service Provider	Signature

Date	Service Performed	Service Provider	Signature

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