



KANGA 5, 6 & 7 B SERIES OPERATORS MANUAL



WWW.KANGALoader.COM

1300 4 KANGA

OPERATING INSTRUCTIONS

BEFORE STARTING

Check the fuel level and fill up if necessary. Ensure that the fuel is the correct type, free from impurities or water. Check that both the crankcase oil and hydraulic oil levels are within operating limits.



CAUTION: Check that all control levers below are in the neutral centre position.

NOTE: Ensure The Auxiliary Power Lever (3) has automatically returned to the “Engine Start” position from the “Work” position. If this lever is not in neutral, the engine will attempt to start under full load. This will place strain on the starter motor potentially flattening the battery.

STARTING

Refer to the engine manual for correct throttle (7) starting positions in warm and cold conditions. Turn starter key switch to start engine.



CAUTION: Do not move any of the control levers unless standing with both feet on the driving platform and holding the grip handles, ensuring non-operating personnel are clear of the Loader.



CAUTION: First time users to use slow 1/3 throttle to practice safe operation before commencing work. The recommended normal operating speed of the machine is 2/3 to 3/4 Throttle.



CAUTION: The Kanga Loader is not fitted with a “seat belt”. The standing position is a safety feature which allows a quick exit from the machine in case of an emergency. Do not add a restriction system to the machine which will limit your ability to safely exit from the Kanga Loader.

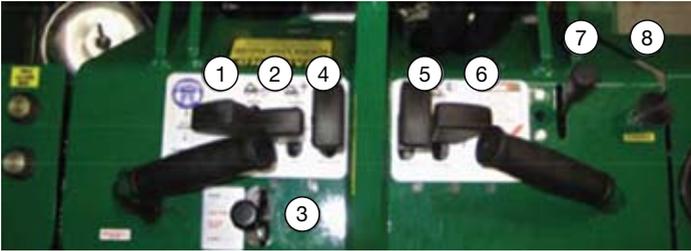


CAUTION: Always exercise care when operating on slopes. The Kanga Loader is approximately 1 meter (39”) wide, which is a great benefit for providing access to confined spaces, however, the machine may become unstable if operating across a slope. If it is impossible to avoid crossing a slope keep the load close to the ground and travel at reduced speed.

The maximum safe angle of slope is 20°. This angle is a recommendation only. The actual safe slope angle will depend on site conditions, operator experience and activity.

CONTROLS

On the top face of the KANGA Loader are Six spring centred levers which control the basic functions. The table below indicates the levers with their corresponding functions:



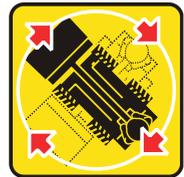
LEVER	PUSH	PULL
1	4 in 1 Open	4 in 1 Close
3	Aux Reverse	Aux Forward
2	Lower Arm	Raise Arm
4	Left Drive Forward	Left Drive Backward
5	Right Drive Forward	Right Drive Backward
6	Tilt Forwards	Tilt Backwards
7	Up Throttle Increase	Down Throttle Decrease
8	Choke Off	Choke On

MANOEUVERING

The forward and reverse levers should be thought of as softly operated clutches for engaging and disengaging the wheels. Use slow even movements of the control levers for smooth operation of the Loader. Practice slow starts and gentle stops in an open, safe area.

Manoeuvring is made possible by individual controls for the hydraulic motors on each side of the machine. A turn may be achieved by varying the amount and/or direction of power supplied to each side of the machine. The machine is capable of turning in its own length by applying equal forward and reverse power to opposite sides of the machine.

While moving forward, a gentle turn to the left for instance, can be made by slightly increasing the power to the right hand side or by reducing the power to the left hand side of the machine. This mode of steering allows the type of turn to be chosen to suit the situation.



MANOEUVRING



MANOEUVRING



3. ENSURE BOTH (2) ATTACHMENT LOCK PINS ARE FULLY ENGAGED



CAUTION: Always ensure that the attachment Locking Pins are fully engaged at all times.

PARKING AND SHUTDOWN

When parking the Kanga always select level ground and lower any bucket or attachment fitted fully to the ground. To shut down, reduce the engine speed to idle and turn the key to the off position. Remove the key to prevent unauthorised use.

- When loading/unloading the Kanga from the trailer, it is important that the trailer remains attached to the towing vehicle on a firm even surface.
- Do not unload a trailer on a slope.
- Ensure bystanders are sufficiently clear.
- All loading/unloading to be carried out using a ramp must be done at a slow speed, with due care for personal safety and damage to equipment. Practice the manoeuvres first on flat ground if necessary.



- Use appropriately rated slings and shackles, and attach to the lifting point on the top of the machine when lifting the machine.
- Always use the tie down points on each side of the machine to secure the Loader when transporting.
- Always use witches hats, signage and traffic signals to control the unloading/loading zone, particularly when in close proximity to operational roads.



CAUTION: Do not park or leave the machine on steep slopes.

ONLY KANGA DESIGNED AND APPROVED ATTACHMENTS ARE TO BE USED ON THIS MACHINE.

“No other attachment is to be used on this machine unless the design and use of the attachment has been assessed and authorised by Kanga; and has been supported by a compliant Risk Assessment, which has been verified and validated by the Risk Management Consultants.”



HYDRAULIC ATTACHMENT CONNECTIONS

Kanga Loaders are fitted with hydraulic quick release couplings (QRC) to connect the different attachments. The QRCs are paired as male and female to ensure correct hose connections.

COLOUR CODING OF QRC's FOR ATTACHMENTS

Left Side : Controlled by the Auxiliary lever on the Control Panel.

Yellow **B MALE QRC** - For Power Head, Under Road Borer, Mixer Bowl, Wood-Chipper, Log Splitter, Rotating Log Grab, Rock Breaker.

Black **A FEMALE QRC** - For Power Head, Trenchers, Under Road Borer, Backhoe, Rotary hoe, Vibrating Plough, Mixa Bowl, Wood Chipper, Log Splitter, Rotating Log Grab, Rock Breaker, Bucket Broom, Angle Bucket Broom, Rod Hammer & Drill.

Red **C MALE QRC TRENCHER VALVE** - For Trenchers, Backhoe, Rotary Hoe, Vibrating Plough, Bucket Broom, Angle Bucket Broom, Rod Hammer, Post Mast Rod Hammer & Drill.

Right Side: Controlled by the 4:1 Lever on the Control Panel.

Blue **4&1 FEMALE QRC** - For 4&1 Bucket, Stump Grinder Slew, Backfill Blade, Rotating Log Grab, Kerb Clamp, Grapple Bucket, Plant Box Lifter, Angle Bucket Broom.

White **4&1 MALE QRC** - For 4&1 Bucket, Stump Grinder Slew, Backfill Blade, Rotating Log Grab, Kerb Clamp, Grapple Bucket, Plant Box Lifter, Angle Bucket Broom.

Purple **Tank return line** - Post Mast Rod Hammer & Drill. (If fitted).

Green **Case drain** - Hydraulic Stump Grinder, Poly Pipe Layer, Wood Chipper. (If fitted).

1/2' Male QRC #L119900
1/2' Female QRC #L119910

Male Cover #L119920
Female Cover #L119930



4 IN 1 OPERATING INSTRUCTIONS

SAFE AND EFFICIENT USE OF BUCKETS

When lifting soil from a heap or pile, always have the bucket level. To achieve this, push the Loader arm downwards and use the tilt ram to bring the bucket level with the ground.



Towards the end of the run when the bucket is nearly full, gently tilt the bucket (rotate the bucket) towards the Loader. This decreases the lifting resistance when the arms are raised and promotes an efficient tear out.

When transporting material in the bucket on slopes or rough ground, always keep the bucket close to ground level. This lowers the centre of gravity of the Loader and maximises stability.



The material may then be dumped into a trailer or utility truck for removal or repositioning on the site.

When scraping, levelling and surface stripping, lower the bucket to the ground, tilt it down and so raise the front wheels slightly off the ground. Drive forward using the back wheels, the bucket will bite into the soil as you move forward.



CAUTION: Do not step off the operator platform with the load raised or the machine moving.



CAUTION: Always ensure that the attachment Locking Pins are fully engaged at all times.



1. READ OPERATORS MANUAL PRIOR TO USE



6. ALWAYS REVERSE DOWN SLOPES WITH LOAD



13. NO PERSONNEL IN BUCKET OR ATTACHMENTS



12. AVOID TRAVELLING ACROSS SLOPES



10. DO NOT PLACE FEET UNDER STANDING PLATFORM



14. PAY ATTENTION

POWER HEAD OPERATING INSTRUCTIONS

FITTING OF POWER HEAD:

Drive the Loader to the attachment and couple the attachment plate onto the attachment. Raise the Power Head slightly and engage the locking pins fully. Turn the engine off and push the AUX Control Lever forwards and backwards to release any hydraulic line pressure. Clean the hydraulic fittings (QRCs) and then connect them to connections A & B. (see “Hydraulics General Description” section).

Removal procedure is the reverse order of the above. Remember to always reconnect the attachment hoses into one another to stop dirt entering the hydraulic system, or fit the dust caps supplied.

FITTING THE AUGER

Once fitted to the Loader, raise the Power Head high enough to allow the auger to be positioned into the Power Head’s square drive shaft. Drive the Power Head forward positioning the drive into the auger, aligning the locking pin holes.



CAUTION: Large auger fitting is a 2 person operation.

PRE - OPERATION CHECK

Insert the locking pins and lock in place. Ensure that the Power Head is securely attached to the Kanga Loader. Check that the couplings are engaged and check for leaks. Tighten/repair as required.



CAUTION: Prior to commencing work, read the **Safety Rules** of this Kanga Loader Manual.

OPERATING INSTRUCTIONS:

Inspect the cutting tips and teeth. Ensure that they are in good condition and firmly attached.

Note: Teeth should display slight movement. Check that bolts securing the pilot are tight.

Start the auger turning in a clockwise direction by activating the “AUX” lever downwards. Lower the auger by pushing the “ARM” lever forward. If the ground is hard the front wheels of the Kanga Loader will lift off the ground. As the auger cuts into the ground the arc of the arm travel will move it out of vertical. To keep the auger vertical, move the Kanga Loader backward or forward slightly to compensate. Continually clear the hole during digging by raising the auger up (pull back on the “ARM” lever).

Drill a “trial” hole in a clear area to practice all operations and to become familiar with the procedure.



CAUTION: Prior to commencing any digging operations, check with the Local Authorities and the land owner that there are no buried services (Power, phone, water, gas, sewage etc) in the vicinity. **Australia ONLY: Phone 1100 “DIAL BEFORE YOU DIG”**

Read the Safety instructions in this Manual.

Keep clear of the auger at all times (4m minimum).

TRENCHER OPERATING INSTRUCTIONS

FITTING A TRENCHER

Drive the Loader to the attachment and couple the Attachment Plate onto the attachment. Raise the Trencher slightly and engage the locking pins fully. Turn the engine off and push the AUX Control Lever forwards and backwards to release any hydraulic line pressure. Clean the hydraulic fittings (QRCs) and then connect them to connections A & B (see “Hydraulic Attachment Connection” section).

Removal procedure is the reverse order of the above. Remember to always reconnect the attachment hoses into one another to stop dirt entering the hydraulic system, or fit the dust caps supplied.

PRE-OPERATION CHECK

Ensure that the Trencher is securely attached to the Kanga Loader. Check that the couplings are engaged and check all joints for leaks. Tighten/repair as required. Inspect the cutting teeth, ensuring that they are in good condition and firmly attached.

Chain Tensioning:

The Trencher chain requires 35-45mm of “lift” to have the correct tension and should be adjust as required. This is achieved by loosening the 16mm bolt, adjusting the adjustment wedge, and retightening the bolt.



CAUTION: Read all safety rules before operating. See safety chapter in this manual.

OPERATING INSTRUCTION



SETTING THE TRENCHING VALVE



Position the Trencher, and activate the AUX lever so that the chain runs along the top of the boom and returns back towards you on the underside. Engage the TILT lever so that the boom and chain arcs down to dig a trench. When the desired depth is achieved, slowly drive the Kanga Loader backwards along the trench line.

(LH side of the Loader). This is a load-sensing valve, which can be set to automatically regulate the speed of travel when trenching. Use the black knob to shut off the valve (turn clockwise). With the trencher cutting to the required depth start moving backwards using the drive levers, open the valve (½ a turn) and this will regulate the travel speed. Further adjustment of this valve will vary the cutting speed to suit the conditions and the operator’s experience.

NOTE: *Minor adjustments are required to maintain a straight line as the Loader will tend to “drift” to the left.*



CAUTION: Prior to commencing any digging operations, check with the Local Authorities and the land owner that there are no buried services (Power, phone, water, gas, sewage etc) in the vicinity.

Australia ONLY: Phone 1100 “DIAL BEFORE YOU DIG”

Read the Safety instructions in this Manual.

Keep clear of the Trencher at all times (4m minimum).