KANGA LOADERS

RADIO CONTROLLED LOADER

SERIES 8 OPERATOR'S MANUAL



PM-000243-B

V25.0

We thank you for choosing the Kanga Loader.

Your machine is the result of extensive design and development, and is acknowledged as being the superior product in its category. We congratulate you on your discerning choice and wish you many years of productive service!

Read this manual carefully before operating your machine. It contains important technical information, safety precautions, and operating instructions. With correct operation and attention to maintenance procedures, you are ensured of a long, safe, and trouble-free working life for your Kanga Loader.

We advise you to study and understand this manual before undertaking any maintenance. Keep it with your machine at all times as a ready reference. Some illustrations in this publication show details or attachments that may be different from those of your machine. In addition, continuing improvements and advancement in product design may have resulted in changes to your machine that are not present in this publication. If you have any questions, please do not hesitate to contact us.

Safety first!

Safety guidelines and warnings are highlighted throughout this manual. These address potential hazards that may arise during the typical daily operation and maintenance of your loader. You must know and observe these safety guidelines, and ensure that all personnel working on or near your loader understand and practice them as well.

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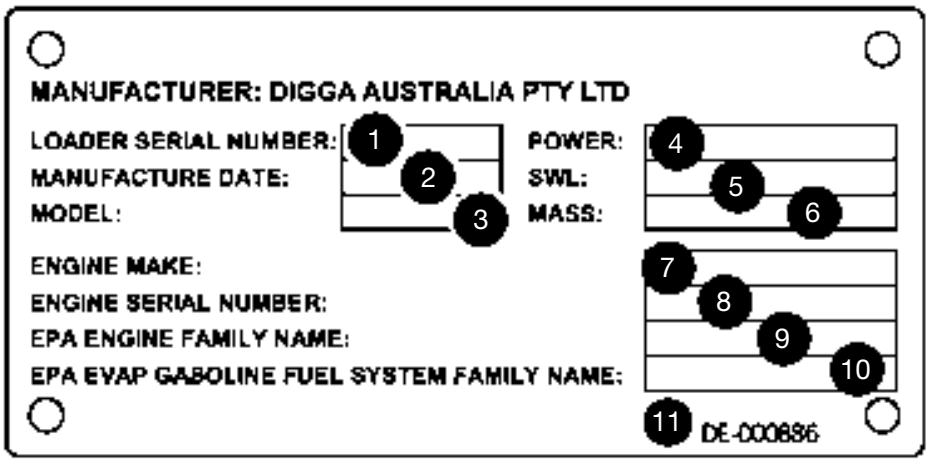
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Identify Your Kanga Loader

Read Your Product Plate



Key

1 Mini-Loader VIN Number

2 Date of Manufacture (in Australia)

3 Full Model Code

4 Engine Gross Maximum Power (HP/KW)

5 Mini-Loader Rated Operating Capacity (ROC)

6 Mass of Loader (without bucket, and full fluid capacity)

7 Make of Installed Engine

8 Engine Manufacturer Serial Number

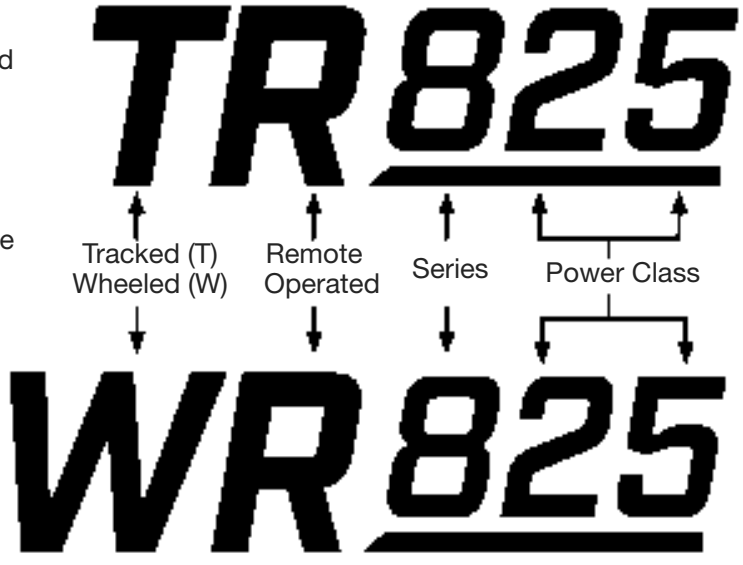
9 EPA Engine Family Name (from engine)

10 EPA Family Name of Fuel System (unleaded fuel loaders only)

11 Re-order Part Number for Serial Tag

Understand the Model Number

Your loader's model number provides information about your loader. Compare the number on the machine to the code provided at right side on this page. The first letter represents a T or W, indicates either a tracked (T) or wheeled (W) loader. The next letter is (R), indicates that it is a Radio controlled loader. The three numbers identify the series and power class.



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Safety Information

Understand Safety Warnings and Symbols

You must understand all safety statements shown on your loader and in this manual. Especially note information called out by the designations shown below. Following these safety precautions is required when operating or maintaining a Kanga Loader.

⚠ DANGER

The DANGER designation indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.

⚠ WARNING

The WARNING designation indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury.

⚠ CAUTION

The CAUTION designation indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury or property damage.

You will also see information called out with the ***Note*** designation. This additional safety or general information is important to the maintenance and operation of your loader.

This Operator's Manual provides measurements in both International System of Units (SI) and United States customary system units (USCS), displayed as "SI (USCS)."

During day-to-day operation of your loader, you will encounter a variety of situations beyond those listed in this manual. We encourage you to assess the risk present at any job site and in every work task *before* beginning work. Apply appropriate risk mitigation strategies to make safety a first priority at all times, and if these are not sufficient, stop the job and immediately seek the help of a qualified safety consultant.

Note
In the diagrams and illustrations shown in this manual, safety guards and covers may have been removed. This is strictly for illustrative purposes. All guards and safety controls must be in place while operating your loader.

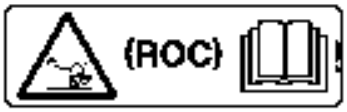
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Safety Decal Labels

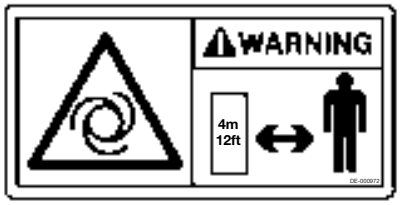
The following section provides a glossary of safety labels found on your Kanga Loader. These labels are important! Become familiar with both their meaning and location prior to operating your loader.

They must be maintained so each decal label is clean, visible, and legible. To clean the decal, use a soft cloth, water, and soap. Avoid the use of solvents, gasoline, or other harsh chemicals, as these may damage the decal.

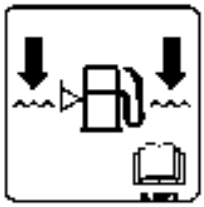
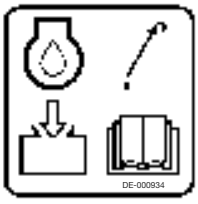
If a label has been damaged or removed, it must be replaced. In the Loader Specifications section of this Operator's Manual, refer to the Decals page for your loader for part number information.

READ OPERATOR'S MANUAL	REMOVE IGNITION KEY	TIPPING HAZARD
		
⚠ CAUTION Completely read and understand this operator's manual before using your Kanga loader. Keep the manual with the machine at all times.	**⚠ CAUTION** Before any maintenance is performed, switch engine off and remove the key. Never leave the key in an unattended machine.	**⚠ WARNING** To avoid a tipping hazard, do not overload this machine. Read this operator's manual for Rated Operating Capacity (ROC).
CRUSHING HAZARD	**SAFETY LOCK**	**SAFETY LOCK PIN STORAGE**
		
⚠ DANGER The loader arm poses a whole-body crushing hazard. Ensure loader pins are fully and correctly installed whenever the arm is raised for maintenance.	**⚠ DANGER** The loader arm poses a whole-body crushing hazard. Ensure loader pins are fully and correctly installed whenever the arm is raised for maintenance.	**⚠ CAUTION** Read this operator's manual for information on safely locking the loader arm in the raised position for daily checks and maintenance.

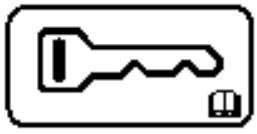
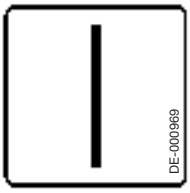
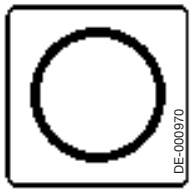
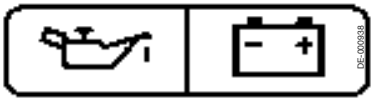
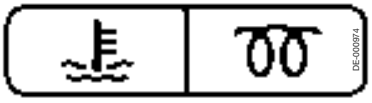
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ENTANGLEMENT HAZARD	AUTOMATIC START-UP HAZARD	LASHING POINT
		
⚠ DANGER Machine is radio remote operator controlled. Operator and bystanders must always keep 4 meters (12 feet) clear of loader when flashing light is active and travel alarm is sounding.	**⚠ WARNING** This machine could be started automatically via radio remote control. Ensure the operator and bystanders must always keep 4 meter (12 feet) clear of loader, be aware of your surroundings and surrounding personal, before starting and operating the loader.	**⚠ CAUTION** Lash the loader to a trailer or truck from only the locations marked as lashing points. Read and understand this operator's manual prior to transporting your loader.
LIFT POINT	**CRUSHING HAZARD**	**HOT FLUID UNDER PRESSURE**
		
⚠ CAUTION Lift the loader only at points approved for lifting. Read and understand this operator's manual prior to lifting.	**⚠ DANGER** Keep hands and body parts a safe distance from actuating parts.	**⚠ CAUTION** Do not remove radiator cap when hot.
CAUSTIC SODA	**HOT SURFACE**	**HIGH PRESSURE FLUID**
		
⚠ WARNING The 12V battery contains caustic liquid that may result in chemical burns to flesh and materials.	**⚠ WARNING** Keep hands and body parts a safe distance from the hot surfaces located in the exhaust, engine, and hydraulic areas.	**⚠ WARNING** This machine operates on high pressure hydraulic fluid. Always wear eye protection when operating or performing maintenance on this machine. Consult this operator's manual for information on safe connection and disconnection of attachments for hydraulic safety.

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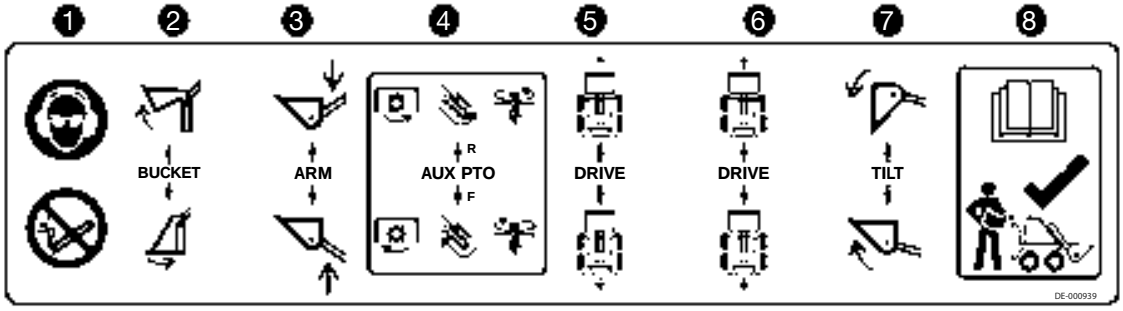
ATTACHMENT CONNECTIONS	PINCH POINT HAZARD	SAFE FILL LEVEL
		
⚠ WARNING Ensure attachment locking pins are engaged and quick couplers are connected before using a loader attachment. Refer to this operator's manual for safe hitch connection and safe connection and disconnection of hydraulic hoses.	**⚠ CAUTION** Keep hands and body parts a safe distance away from pinch points and actuating parts.	**⚠ CAUTION** Read and understand this operator's manual for refuelling and maximum fuel level.
COMBUSTIBLE LIQUID	**REFUEL**	**ENGINE OIL**
		
⚠ WARNING The low sulphur diesel fuel required for this loader is combustible. Refer to this operator's manual for more information.	**⚠ CAUTION** When refuelling, fill both tanks to maximum fill level; do not over fill. Read this operator's manual for information on fuelling your loader.	**⚠ CAUTION** Consult this operator's manual for information on hydraulic oil.
ENGINE OIL DIPSTICK	**DAILY GREASE POINT**	**TYRE PRESSURE**
		
⚠ CAUTION Maintain correct engine oil for your loader. Consult engine operator's manual for more information.	**⚠ CAUTION** Some grease points may be hidden. Consult this operator's manual for more information on greasing your loader.	**⚠ CAUTION** Maintain correct tyre pressure for all loader tyres. Consult this operator's manual for more information.

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REMOTE MODE	MANUAL CONTROL	ENGINE CONTROL
		
NOTE Wireless communication - this symbol identifies the control that enables wireless communication through radio frequency.	**NOTE** Manual control – this symbol identifies manual control and machine requires your hand to operate.	**NOTE** Compression ignition engine control - Engine stop, Engine run, Engine glow heater, and Engine start. Refer to this operator's manual for more information.
KEY SWITCH LOCATION	**BATTERY ISOLATOR**	**CONTROL POSITION - ON**
		
NOTE A key is to be used to start the machine manually. Refer to operator's manual to use key to start in manual mode.	**NOTE** Refer to operator's manual for information on battery isolator operation, how to connect and disconnect the battery.	**NOTE** ON – this symbol identifies the control that starts or turns on a function.
CONTROL POSITION - OFF	**INDICATION SIGNS**	**INDICATION SIGNS**
		
NOTE OFF – this symbol identifies the control that stops or turns off a function.	**NOTE** A steady Red light indicates no engine oil pressure, whereas steady Amber light indicates battery is not charging or fan belt is broken.	**NOTE** A steady Blue light indicates engine coolant is over temperature, whereas steady Green light indicates engine glow plugs are heating.

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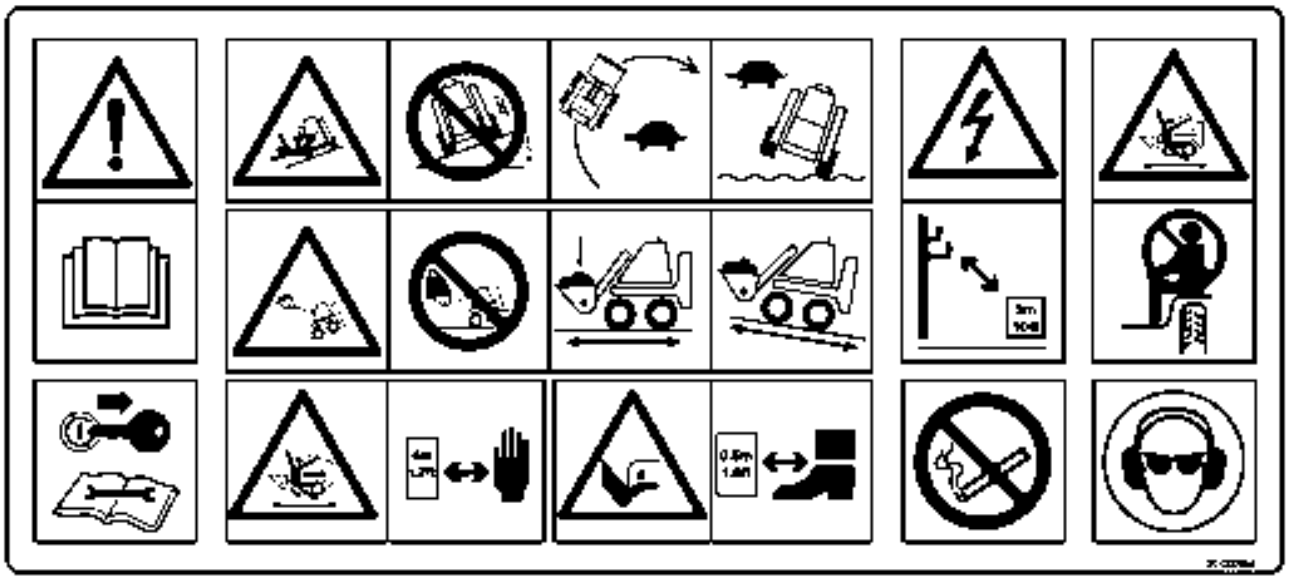
OPERATOR HYDRAULIC CONTROLS



NOTE

1. No smoking, fire or open flame. Wear hearing and eye protection, where applicable (site specific).
2. Identifies the control that opens and closes the 4 in 1 multi-purpose bucket.
3. Identifies the control that raises and lowers the bucket by the mini loader left arm.
4. Identifies the control that moves the PTO (power take off) shaft forwards /clockwise and reverse /anticlockwise direction.
5. Identifies the control that moves the left side drive of the loader in a forward and backward direction.
6. Identifies the control that moves the right-side drive of the loader in a forward and backward direction.
7. Control that moves the tip of the bucket towards vertical to dump its components, to identify the control that moves the tip of the bucket away from vertical to lift and carry material.
8. Read operators manual for information on loader hydraulic controls.

MULTI SAFETY ADVISOR PANEL

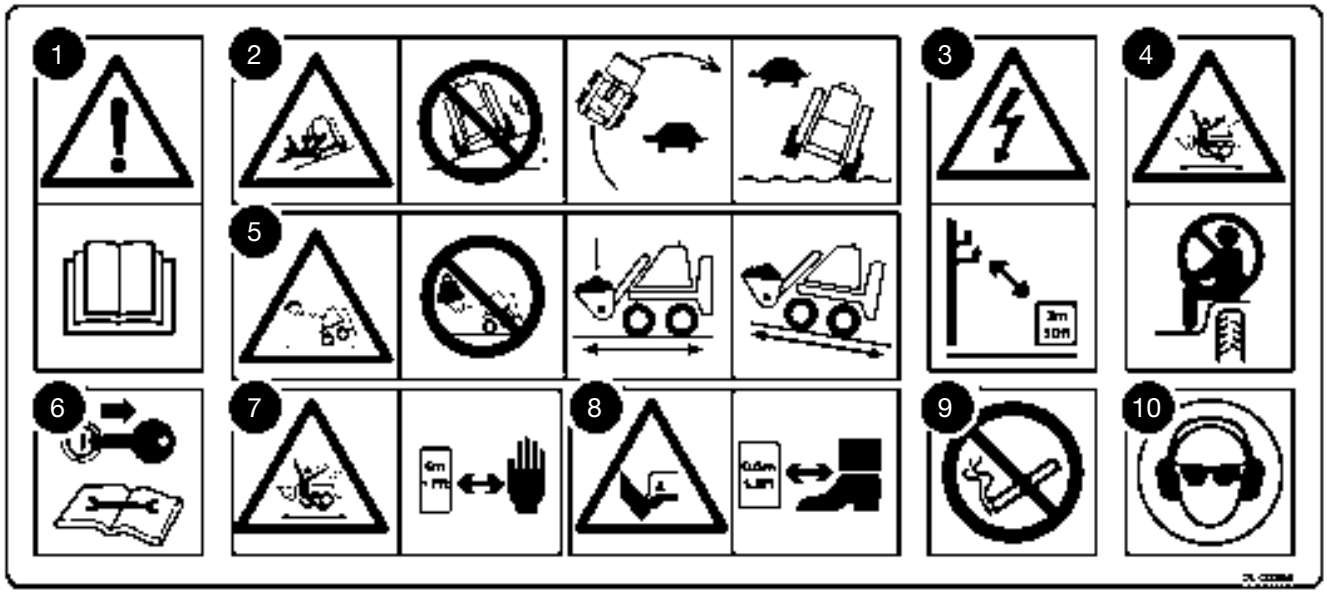


See next page for information on these advisories.

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Safe Work Practices—Pictograms

These illustrate key safety practices related to the operation of your Kanga Loader.



Descriptions

1 Caution: Take note of the following safe work practices and safety notices. Always read the operator's manual before operating this machine.

2 Warning: Fall hazard

Safe Operation Angle: Do not operate machine on slopes greater than 20 degrees.

Manoeuvre the machine slowly when turning.

Manoeuvre the machine slowly across rough ground.

3 Danger: Electrocution hazard
Always check for overhead and underground power services. Keep 3 meters (10 feet) from overhead services and 2 meters (6 feet) from on-ground utility markings.

4 Caution: Entanglement hazard
Always keep both feet at safe distance while controlling the loader in local mode.

Only operating personnel may be present near the machine. Never sit or ride on the side, top, or front of the machine.

5 Tipping Hazard: Refer to operator's manual for Rated Operating Capacity (ROC). Use a steady, even motion on the control levers; do not jerk the control levers. Carry the heavy end uphill. Always check behind you before reversing the machine.

Never overload the machine or exceed ROC.

Always operate the machine with the attachment lowered.

Always move up and down slopes with the attachment lowered.

6 Before any maintenance is performed, switch engine off and remove the key. Never leave the key in an unattended machine.

7 Caution: Entanglement hazard

Bystanders must be at least 4 meters (12 feet) from the operating machine at all times.

8 Caution: Crushing hazard, feet and legs

Do not place feet under the machine, while operating in local or remote mode. Always place both feet at a safe distance while controlling the loader in local mode.

9 No smoking, no fire, or open flame on or near this machine.

10 Always wear hearing and eye protection where applicable (this is site specific).

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Practice Safety at All Times

General Safety Rules

Read, remember, and apply the following safety rules during the operation of your Kanga Loader. In addition, complete a thorough risk assessment before loading and unloading the loader, and before beginning work. This will aid in anticipating any unsafe operations or work conditions unique to the job.

Completely read and understand this Operator's Manual and keep it with the machine at all times.

Identify, mark, and delineate all underground utility installations before any work commences.

Establish a traffic control plan with a well-defined and clearly marked loading/unloading and work area.

⚠ DANGER

To avoid the risk of struck-by and backover accidents, ensure all personnel, guests, and passersby in the work area understand where they can—and cannot—travel on foot.

Mark the boundaries of the work area with barricades and/or traffic cones before beginning work with the loader.

Keep body parts within the confines of the loader if you are operating the loader in manual mode.

Never tie or otherwise secure yourself to any part of the machine or attachment.

⚠ DANGER

Keep hands, feet and clothing away from all moving parts, including hydraulic arms.

Stop completely before changing loader direction from forward to reverse or vice versa.

⚠ CAUTION

Failure to stop completely before changing direction can affect loader stability and damage the drive of the loader.

Stop completely before operating other hydraulic controls.

Travel at speeds suitable for the conditions and as determined by the task risk assessment.

Slow loader speed to appropriately match ground conditions, such as rough surfaces or uneven terrain.

Travel at the recommended operating speed between 2/3 and 3/4 throttle.

Note
Reduced speeds minimize noise levels dangerous to both the operator and bystanders.

Travel with the bucket low and level to the ground, carrying loads as close to the ground as practicable.

Ensure the machine is fully stopped and shut off before switching from remote to local mode.

Use only thumbs and forefingers to operate the control levers in local and remote mode.

Use a steady, even action to achieve proper control. Do not jerk the control levers while using in local mode.

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General Safety Rules (continued)

Avoid distractions during loader operation.

Remove the key and chock the wheels when the loader is left unattended and/or unsupervised.

⚠ CAUTION

Do not use control levers as handholds

⚠ DANGER

Never carry passengers on any part of the loader or its attachments.

Attach a "Do Not Operate" or similar warning tag near the control levers and on remote during service and repairs.

Shut off engine during refuelling.

Do not smoke or use open flame during loader operation or while refuelling.

Do not exceed this loader's Rated Operating Capacity (ROC).

Do not engage in horseplay and other dangerous behaviours while operating the loader or attachments.

⚠ WARNING

Avoid touching exhaust, engine parts, hydraulic pipes and fittings, drive chains, friction parts, or guards.

Do not remove safety decals. Replace decals that have become damaged or illegible.

Do not remove safety guarding.

if safety guarding must be removed for repairs or maintenance, replace immediately.

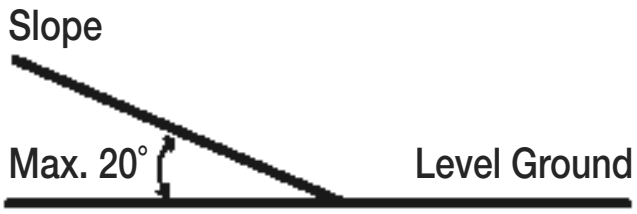
Working on Slopes

Slopes present especially dangerous working conditions. Environmental factors, such as the presence of moisture, snow, ice, or slippery plant material, can affect loader stability. Soil conditions, rough terrain, reduced visibility due to dust, and other factors can impair safe operation. The presence of attachments, the condition and configuration of the machine, the loads being carried, and operator experience also impact work safety.

The Kanga Loader is designed to operate on slopes to a maximum of 20°. Note that this is a maximum; the actual safe slope angle may be lower depending on the factors listed above.

⚠ WARNING

Never work on a slope greater than 20°. Always complete a comprehensive assessment of slope



Avoid traveling with and working the loader across slopes, especially on uneven ground. If traveling across a slope is imperative, the area should be traversed under reduced speed and with extreme caution. Any load should be lowered as far as possible.

⚠ DANGER

Your Kanga Loader has been engineered to permit access to restricted areas. The loader's reduced width can affect stability when traveling across slopes.

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In addition to the precautions listed here, observe the following safety practices when working on slopes:

- Ensure personnel operating the loader are fully trained and aware of hazards and precautions prior to commencing work on a slope.
- Travel down a slope in reverse, and if carrying a load, reduce speed.
- Do not leave the loader unattended on a slope.
- Do not park the loader on a slope.
- Do not carry a load with the arms raised. Always carry loads with the arms against the chassis, close to the ground.
- Never load or unload the loader on a slope.
- Never attach, change or remove attachments on a slope.
- Slopes are a major factor in loss-of-control and tip-over accidents, which may result in severe injury or death. Operating the machine on any slope or uneven terrain requires extra attention and extreme caution.
- Always operate the machine up and down slopes and loading ramps with the heavy end of the machine uphill and the load close to the ground. The heavy end of the machine will depend on the attachment being used or load being carried. Operating with an empty bucket will make the rear of the machine the heavy end, while a full bucket will make the front of the machine the heavy end. Most hydraulic driven attachments make the front of the machine the heavy end.
- Raising the loader arms on a slope will affect the balance and stability of the machine. Always travel and operate with the loader arms in the lowest possible position when on slopes.
- Establish your own pre-operation procedures and operating rules for when operating on slopes. Your procedures must always include surveying the site/slope prior to operating the machine to determine whether the slope is safe for machine travel and operation. With safety at the forefront of your decision making, use good judgment and common sense when completing the slope/site survey.
- Slow down and use extra care on slopes. Take into consideration the ground conditions, weather conditions, surface type, surface condition and available traction which can all affect the stability of the machine. Always proceed slowly, ensuring all movements are smooth and gradual. Never make sudden changes in direction, speed or arm movements.
- Avoid starting or stopping on a slope as this may cause the machine to lose traction.
- Avoid traveling across or turning on a slope. Always proceed straight up and down a slope with the heavy end of the machine uphill.
- Always use extra caution when operating your mini loader near ditches, embankments, waters edge and culverts.

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Tipping Load and Rated Operating Capacity (ROC)

In accordance with ISO 14397-1:2007(E), the tipping load was determined by the load that when put in the bucket or fork will commence tipping of the machine. This load has been determined for a range of attachments with the tabulated results on the following pages. As per the code, Tipping Load was determined with:

- The load acting through the centre of bucket volume or in the centre of the fork tynes
- The boom in the least stable position
- Fluids at recommended levels
- A full fuel tank
- Air-filled tyres

Note
The water filled tyres is the usual configuration in Australia, however air filled was used as a conservative measure. Optional counterweight mass is not included unless stated.

Rated Operating Capacity (ROC):

ISO 14397- 1:2007(E) states that the Rated Operating Capacity (ROC) is the Tipping Load multiplied by stability factors for normal operation. For skid steers, these factors are 0.50 for wheeled machines and 0.35 for tracked / crawler machines. On certain loaders, Kanga uses what is called an Over Tyre Track (OTT) system. This system is intended to improve traction and float in soft wet conditions, while maintaining the hard / uneven ground stability attributes of a wheel loader. In terms of stability, Kanga find the OTT system to be comparable to a wheel loader though have reduced the factor to 0.45 as an added precaution.

Only Kanga designed and approved attachments are to be used in conjunction with your Kanga Loader. Operator to ensure the attachment is suitable for use with the loader model type and will not cause tipping. Contact Kanga for specific attachment details.

8 SERIES RADIO CONTROLLED - TR825 (Without Counter Weights)

BUCKETS								
Material load for buckets:	**No bucket ***		**62kg Kanga GP Bucket**		**84kg Kanga HD GP bucket**		**157kg Kanga HD 4in1 bucket**	
Tipping load	603kg	1329lb	541kg	1190lb	519kg	1141lb	446kg	981lb
Rated Operating Capacity (ROC)	270kg	595lb	243kg	535lb	233kg	514lb	201kg	441lb

FORKS						
Material load for forks:**	**500mm Kanga fork tynes**		**750mm Kanga fork tynes**		**900mm Kanga fork tynes**	
Tipping load	432kg	949lb	391kg	860lb	370kg	814lb
Rated Operating Capacity (ROC)	194kg	427lb	176kg	387lb	167kg	366lb

***** *This is to represent the general loader capabilities. Cannot be used for material load without adjusting for the bucket mass.*

****** *Tipping Load and ROC are based on stability only. Refer to the fork tyne specifications / manuals for individual arm load capacities.*

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8 SERIES RADIO CONTROLLED - TR825 (With Counter Weights)

BUCKETS								
Material load for buckets:	**No bucket ***		**62kg Kanga GP Bucket**		**84kg Kanga HD GP bucket**		**157kg Kanga HD 4in1 bucket**	
Tipping load	848kg	1865lb	786kg	1728lb	764kg	1680lb	691kg	1519lb
Rated Operating Capacity (ROC)	381kg	839lb	353kg	778lb	344kg	756lb	311kg	684lb

FORKS						
Material load for forks:**	**500mm Kanga fork tynes**		**750mm Kanga fork tynes**		**900mm Kanga fork tynes**	
Tipping load	630kg	1385lb	571kg	1255lb	540kg	1188lb
Rated Operating Capacity (ROC)	283kg	623lb	257kg	565lb	243kg	535lb

8 SERIES RADIO CONTROLLED - WR825 (Without Counter Weights)

BUCKETS								
Material load for buckets:	**No bucket ***		**62kg Kanga GP Bucket**		**84kg Kanga HD GP bucket**		**157kg Kanga HD 4in1 bucket**	
Tipping load	564kg	1240lb	502kg	1104lb	480kg	1056lb	407kg	895lb
Rated Operating Capacity (ROC)	282kg	620lb	251kg	552lb	240kg	528lb	203kg	448lb

FORKS						
Material load for forks:**	**500mm Kanga fork tynes**		**750mm Kanga fork tynes**		**900mm Kanga fork tynes**	
Tipping load	432kg	949lb	362kg	797lb	370kg	814lb
Rated Operating Capacity (ROC)	216kg	475lb	181kg	399lb	185kg	407lb

8 SERIES RADIO CONTROLLED - WR825 (With Counter Weights)

BUCKETS								
Material load for buckets:	**No bucket ***		**62kg Kanga GP Bucket**		**84kg Kanga HD GP bucket**		**157kg Kanga HD 4in1 bucket**	
Tipping load	807kg	1776lb	745kg	1639lb	723kg	1591lb	650kg	1430lb
Rated Operating Capacity (ROC)	404kg	888lb	373kg	820lb	362kg	795lb	325kg	715lb

FORKS						
Material load for forks:**	**500mm Kanga fork tynes**		**750mm Kanga fork tynes**		**900mm Kanga fork tynes**	
Tipping load	630kg	1385lb	541kg	1190lb	540kg	1188lb
Rated Operating Capacity (ROC)	315kg	693lb	270kg	595lb	270kg	594lb

***** *This is to represent the general loader capabilities. Cannot be used for material load without adjusting for the bucket mass.*

****** *Tipping Load and ROC are based on stability only. Refer to the fork tyne specifications / manuals for individual arm load capacities.*

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Call Before You Dig

Never begin work at a new location until the work area has been fully marked for underground utilities. Buried electrical, telephone, cable wires, gas, water and sewer lines are likely to be present. Unintentionally disrupting these hidden hazards while working with your loader can result dangerous situations and property damage.

Many countries offer a "Dial Before You Dig" service which advises the location of underground services in your area. If available also use this service prior to digging, drilling, trenching or any form of excavating and earthmoving.

⚠ CAUTION

You must ensure that underground utilities have been officially marked before working in the area. Markings must be valid according to state law or practice.

To begin the process of utility location, call the respective "Dial Before You Dig" authority for your Country or State, several days before work is to begin. Your call will be routed to a local utility locator dispatch service. Be ready to provide information about where you plan to dig, the type of work involved, and how you can be reached.

The applicable utility companies will be informed, and utility locator personnel will be sent to the property to mark the approximate locations of the underground utilities. They will use paint, flags, stakes, or other temporary methods.

While operating your loader and attachments in a marked area, keep a distance of at least 2 meters (6 feet) from all underground services.



⚠ DANGER

During loader operation, maintain a minimum "no-work zone" buffer of 3 meters (10 feet) from any overhead electrical service and 2 meters (6 feet) from any underground service.

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Personal Protective Equipment (PPE)

All personnel working on or near the Kanga Loader must follow the work site's Health and Safety guidelines and wear a hard hat, hearing protection, safety glasses, and other protective equipment, as appropriate for the hazards present.



⚠ WARNING

Avoid loose clothing or jewellery that can snag on controls or on other parts of the equipment.

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Complete a Risk Assessment

Five Steps to an Effective Risk Assessment

Your Kanga Loader is a versatile machine, capable of performing a variety of tasks in a safe and effective manner. To ensure the safety of operators and others, it is important to document the work at hand for hazards and risk. Before beginning work, complete a risk assessment. The following steps provide a framework for this activity:

1	**DOCUMENT THE ACTIVITY** Assemble those involved in the activity. Write down the tasks required for the activity in step-by-step form.
2	**IDENTIFY THE HAZARDS** (see list, right) Next to each task, identify what part of the task may cause injury to those engaged in the task or others in the vicinity. Rate the consequences and likelihood of the hazard using the risk assessment matrix on the next page.
3	**DOCUMENT THE CONTROL MEASURES** Using the results from the risk assessment matrix, determine which hazards require attention. List all mitigation measures that are required to eliminate or minimize those hazards.
4	**IDENTIFY THE RESPONSIBLE PERSON** Document the name of the person responsible for implementation of the mitigation measure.
5	**MONITOR AND REVIEW** Ensure that the activity is supervised and that the documented process is being followed. When a documented activity changes, when there is a change of personnel, or after an appropriate length of time, review the documentation.

The following are examples of hazards that may be present at your work site:

- Overhead power lines
- Underground utilities
- Excavations
- Slopes or adverse cambers
- Confined spaces
- Poor or limited sight lines and visibility
- Roadways carrying vehicular traffic
- People or animals accessing the work area or machine

Note other hazards here:

Should an incident occur, conduct an investigation to determine hazards, their underlying causes, and any safety-related strategies that may be needed. In this way you can work to prevent future occurrences.

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Risk Assessment Matrix

Consequences	Rating	Likelihood	Rating
Catastrophic • Catastrophic injury, injuries resulting in single or multiple deaths or permanent disablements	5	**Almost certain** • May occur several times a year/ can happen almost every time the activity takes place/almost all employees are exposed to the hazard	5
Major • Major injury, fatality, serious bodily injury or illness caused by work- permanent incapacitate	4	**Likely** • May occur once or several times during the life of the activity / many employees are exposed to the hazard	4
Moderate • Moderate injury or illness- injury requiring casualty treatment- Lost time injury	3	**Possible** • Low possibility that it may happen in the life of the activity / some employees are exposed to the hazard	3
Minor • Minor injury- first aid treatment without absence- medical treatment injury	2	**Unlikely** • Only a remote risk that it may happen in the life of the activity / few employees are exposed to the hazard	2
Negligible • Small injury or bruises- first aid treatment	1	**Very Unlikely** • No knowledge of similar situations happening elsewhere / only a few employees are exposed to the hazard	1

	Consequences				
Likelihood	Negligible	Minor	Moderate	Major	Catastrophic
5 Almost certain	**11**	**16**	**20**	**23**	**25**
4 Likely	**7**	**12**	**17**	**21**	**24**
3 Possible	**4**	**8**	**13**	**18**	**22**
2 Unlikely	**2**	**5**	**9**	**14**	**19**
1 Very Unlikely	**1**	**3**	**6**	**10**	**15**

Risk Control Legend - Outcome

23 to 25 = Extreme Risk - Cease activity immediately and implement risk controls before restarting work activities. Consult with competent and qualified personnel to make the work area safe.

15 to 22 = High Risk - Plan and implement risk control measures after performing the five-step risk assessment. Seek advice from the manufacturer if any doubt remains.

7 to 14 = Medium Risk - Acceptable but remedial work may be required in the longer term.

1 to 6 = Low Risk - Acceptable without further remedial work. However, you should still monitor and review periodically.

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Be Work-Ready

Before beginning work, answer the following questions. Immediately address any issues detected during this process.

Perform a Site Assessment

- ☐ Is the terrain stable and suitable to work on?
- ☐ Have you conducted a thorough site inspection before entering the area with loader?
- ☐ Are wet or boggy conditions present?
- ☐ Are other environmental factors affecting loader operation present?
- ☐ Is the work area sloped?
- ☐ Are slope angles within safe recommendations?
- ☐ Have underground utilities been marked and the no-work zone specified?

Ensure Personal Safety

- ☐ Are all safety instructions clearly understood by all individuals working on and around the loader?
- ☐ Are all personnel wearing recommended and appropriate PPE?
- ☐ Is the loader operator fully prepared to use the loader as specified in the operator's manual?
- ☐ Has the daily pre-operation inspection of the loader been completed?
- ☐ Have issues detected during the pre-operation inspection been addressed?
- ☐ Are all loader safety features operable?
- ☐ Are the attachment locking pins fully engaged and secure?
- ☐ Is the driving platform clean, dry, and free from grease, mud, or other slip risks?

Execute the Task

- ☐ Have any required risk mitigation strategies been put in place?
- ☐ Has a safe and logical sequence of work been specified?
- ☐ Has the plan of work been discussed with all personnel and bystanders in the area?
- ☐ Has work been coordinated with other trades and activities on the site?
- ☐ Has the work area been clearly demarcated?
- ☐ Do work plans reflect the weight or load and operational limitations of the loader?
- ☐ Have all operators been reminded to travel with loads low to the ground?
- ☐ Do operators understand that the bucket must be in the down position when not in use?

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Operate Your Kanga Loader

Inspection After Delivery

As soon as your loader is delivered and before declaring it ready for use, thoroughly inspect it for any evidence of damage resulting from shipment.

⚠ CAUTION

The task of preparing a new loader for use should be completed by a responsible person who has read and understood this manual.

Care and maintenance requirements for your loader are simple, and coupled with the use of common sense, a general occupational health and safety knowledge, and a daily prework visual inspection, should not pose any problems. The following checklist provides suggestions for detecting defective or damaged parts.

Check Before Using

1	Inspect the machine chassis for any visible damage.
2	Visually inspect all components to ensure they are securely attached.
3	Inspect all areas for evidence of hydraulic oil, engine oil, or fuel leakage.
4	Inspect arm assembly area for firm attachment and sufficient lubrication. Check hydraulic cylinders for oil leakage and visible damage.
5	Check hydraulic oil lines for correct connections and for signs of leakage.
6	Check wheel and tyre assemblies for loose or missing wheel nuts, any visible damage, and proper tyre inflation.
7	Check wheel drive motor assemblies for any visible damage and oil leakage.
8	Inspect all cylinders for rust, nicks, scratches, or foreign material on shafts. Check for hydraulic oil leaks at the seal and fitting areas.
9	Inspect the engine compartment for loose or missing components and any evidence of damage or leakage.
10	Check the engine oil level is within operating limits as marked on the dip stick.

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Loading and Unloading

Carefully observe the following safety guidelines during the loading, unloading, and trailering of your Kanga Loader.

When loading or unloading the machine from a trailer, the trailer must be located on a firm, even surface. It must remain fully attached to the towing vehicle.

⚠ WARNING

Never unload a trailer positioned on a slope. Do not park or leave the loader on a slope.

Ensure the angle of the loader during ascent or descent from the trailer is within safe operational limitations.

Carry out all loading or unloading manoeuvres at a slow speed, with due care for personal safety and damage to equipment.

Note
As necessary, practice the loading or unloading manoeuvres in a safe location until the process is mastered.

Unloading

1. Ensure trailer and towing vehicle are on firm and level ground.
2. The trailer tow hitch must always be engaged and locked onto the tow ball during unloading and loading.
3. Make sure the tow vehicle is in gear or park with the handbrake applied.
4. Lower the ramps on the trailer.
5. Remove the load binders/or ratchet straps as follows:
    - *From the tie down points located between the wheels on the left and right hand side.*
    - *From the tie down points at the rear of the loader on the left and right hand side.*
6. Start the loader as per operating Instructions.
7. Keep the Arms on the chassis of the loader and Roll back the bucket using crowd and tilt leaver. Always keep the bucket on when unloading.
8. Drive back slowly to the edge of the trailer and align the loader wheel with the ramps proceed to reverse the loader down the ramps at a slow and Consistent speed.
9. Drive the loader clear of the ramps.
10. Park the loader on flat level ground with the bucket lowered flat on the ground.

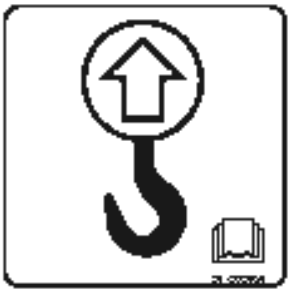
Loading

1. Ensure trailer and towing vehicle are on firm and level ground.
2. The trailer tow hitch must always be engaged and locked onto the tow ball during unloading and loading.
3. Make sure the tow vehicle is in gear or park with the handbrake applied.
4. Lower the ramps on the trailer.
5. Keep the Arms on the chassis of the loader and Roll back the bucket using crowd and tilt leaver. Always keep the bucket on when unloading.
6. With the bucket facing the tow vehicle align the wheels with ramps
7. Drive the loader forward up the ramps at a Slow and Consistent speed.
8. With the loader squarely on the trailer, lower the bucket using the tilt and crowd lever so the bucket flat on the trailer deck, then slowly drive the loader forward into the bucket stop on the trailer.
9. When correctly position, shut-down the loader, then attach the load binder/or ratchet straps as follows:
    - **a)** *From the tie down points between the wheels on the left and right hand side.*
    - **b)** *From the tie down points at the rear of the loader on the left and right hand side.*
10. With the loader and attachments are secured for transport, raise and secure the trailer ramps.

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Lifting Your Loader

When lifting the machine, use appropriately rated slings and shackles. These must be attached securely to the lifting point on the top of the machine.



⚠ CAUTION

For the Kanga Series Radio Controlled - Series 8 Loader, the load on the lifting lug must not exceed 1500Kg (1.6 US tons).

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Parking and Shutting Down

When parking your loader, observe the following safety guidelines:

Always select level ground.

Lower any bucket or attachment fully to the ground.

To shut down the loader in local mode, reduce the engine speed to idle and turn the key to the "OFF" position. Remove the key to prevent unauthorized use.

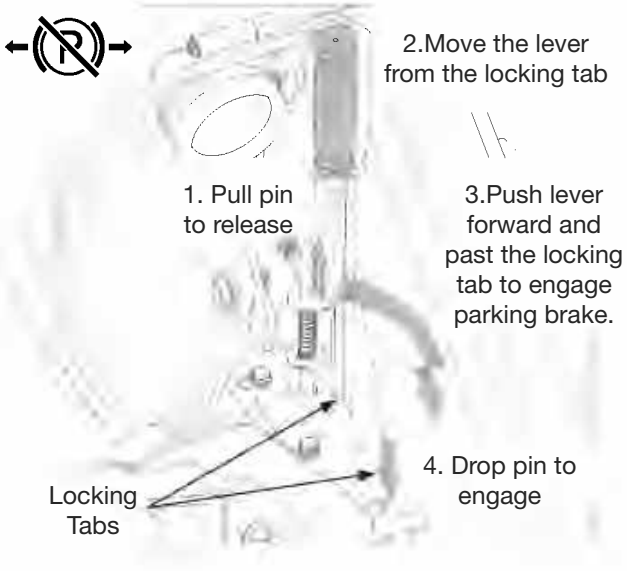
To shut down the loader in remote mode, reduce the engine speed to idle and use the "ON/OFF" switch on the remote.

If your machine has an optional parking brake, push the lever to engage.

Parking Brake

The optional parking brake lever is located on the right hand side of the loader and actuates on the right front wheel.

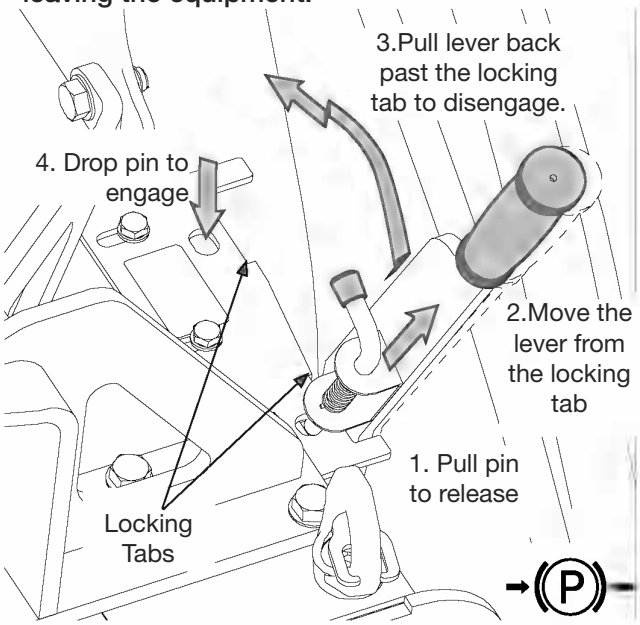
To engage the parking brake pull the locking pin up to release the lever. Move the parking brake lever from the locking tab and then push it towards the front of the loader and past the locking tab. Ensure the locking pin engages with the hole.



Parking Brake Disengaged Position

CAUTION

The parking brake might allow the loader to move up to 300mm (1 ft) before engaging. Make sure the parking brake is engaged before leaving the equipment.



Parking Brake Engaged Position

CAUTION

Dirty and lack of lubrication might prevent the parking brake pin from actuating. Grease the parking brake mechanism frequently (see "Service Tasks: Grease Nipples" on page 62) and ensure the parking brake is engaged before leaving the equipment.

To disengage the parking brake pull the locking pin up, move the parking brake lever from the locking tab and then pull it towards the rear of the loader and past the locking tab. Ensure the locking pin engages with the hole.

WARNING

Ensure the locking pin is engaged before attempting to move the loader. Failing to do so could result in an unexpected engagement of the parking brake, creating a potentially dangerous situation.

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Safety in the Work Zone

In all work zones, it is important to control both vehicle and foot traffic in the area.

Always use cones, signage, and other signals to demarcate the unloading and loading zone.

Ensure that non-essential personnel and bystanders are sufficiently clear of the area before proceeding with the loading or unloading process.

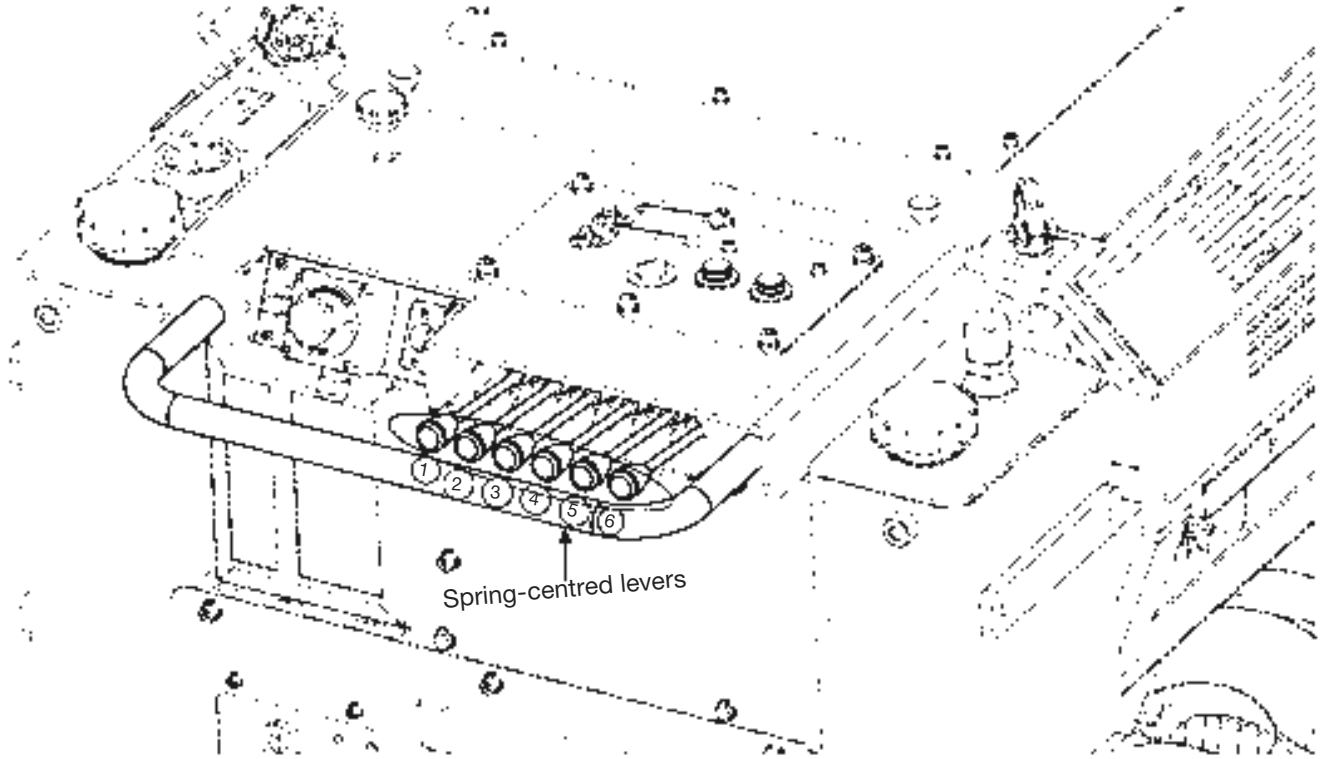
⚠ DANGER

Observe extra vigilance when loading, unloading, or working with your loader close to roadways carrying traffic. Never count on drivers to slow down, stop, or otherwise accommodate your presence.

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Controls - Local Mode

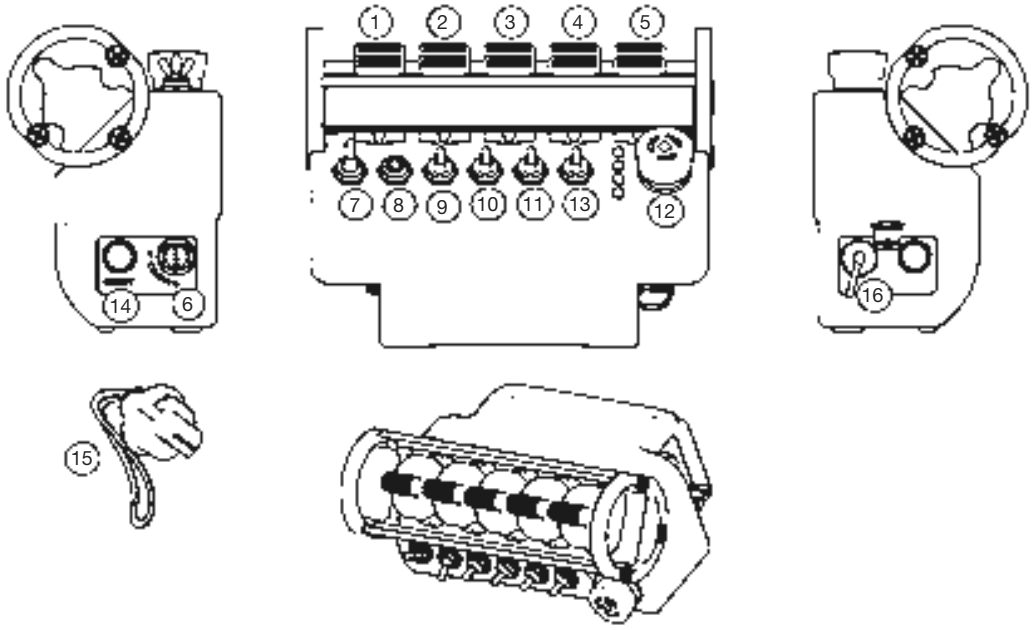
Spring-centered levers are located on the back of the loader control area. These control the basic operating functions via a Push Up and Push Down action. The levers and their corresponding functions are illustrated below.



Item Number	Controls	Action on push UP	Action on push Down
Lever-1	4-in-1 bucket	Open	Close
Lever-2	Arm	Lower	Raise
Lever-3	AUX (attachment)	Forward	Reverse
Lever-4	Left drive	Forward	Reverse
Lever-5	Right drive	Forward	Reverse
Lever-6	Tilt	Dump	Crowd

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Controls - Remote Mode



Item Number	Action on PUSH	Action on CENTRE	Action on PULL
Lever-1	4 in 1 open	Neutral	4 in 1 closed
Lever-2	Arm down	Neutral	Arm up
Lever-3	Left track forward	Neutral	Left track reverse
Lever-4	Right track forward	Neutral	Right track reverse
Lever-5	Dump forward	Neutral	Crowed back
Key Port-6	Twist clockwise on	N/A	Twist anti clockwise radio and loader off
Switch-7	N/A	N/A	Engine start
Switch-8	Tramming	N/A	Steering
Switch-9	AUX/PTO forward	Neutral	AUX/ PTO reverse
Switch-10	Fast travel speed	Slow Travel Speed	N/A
Switch-11	Headlights on	Head Light Off	Glow plug active momentary
Emergency Stop-12	Emergency stop	N/A	Twists release on
Switch-13	RPM - Step up	N/A	RPM- Step down
Button-14	To initialize radio Connection to receiver.	N/A	N/A
Key-15	Twist clockwise on	N/A	Twist anti clockwise radio and loader off
Port-16	Used to insert control cable	N/A	N/A

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Before Starting Up

Before starting up, read this operator's manual for this loader, then complete the following steps:

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 engine oil and hydraulic oil levels are within operating limits.

Ensure that the emergency stop button on the loader and remote both are disengaged by turning completely to the right until the button "pops" up.

Ensure that the transmitter remote battery is fully charged.

Turn the selector switch to "Remote" or "Local" function from the loader.

⚠ CAUTION

Check that all control levers on the loader and on the remote are in the neutral (centre) position before starting the loader.

Note:
Ensure AUX lever has automatically returned to the "Neutral" position from "Forward" or "Reverse" position. If this lever is not in neutral, the engine will attempt to start under full load, placing a strain on the starter motor and draining the battery.

AUX lever = Lever-3 in local mode.

AUX lever = Switch-9 in remote mode.

Starting - Local Control

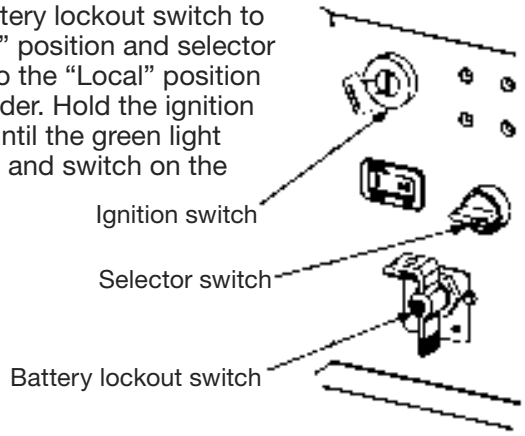
Refer to the engine manual and "Cold Weather Starting" section of this manual for correct throttle starting positions in warm and cold conditions.

Turn battery lockout switch to the "ON" position and selector switch to the "Local" position from loader.

⚠ WARNING

The operator must not move any of the control levers until he or she is standing well behind the loader at a safe distance and has confirmed no people or obstacles are in the path of the loader.

Turn battery lockout switch to the "ON" position and selector switch to the "Local" position from loader. Hold the ignition switch until the green light turns on and switch on the loader.

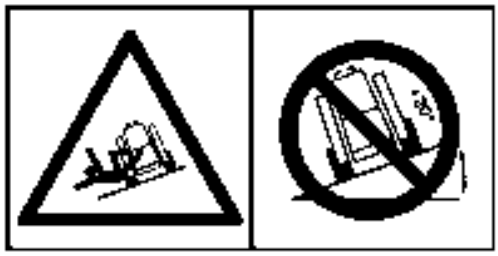


First-time or novice users should employ a slow, 1/3 throttle to practice safe operation before commencing work. The recommended normal operating speed of the machine is 2/3 to 3/4 throttle.

Connect the jack plug of Pendant Switch (provided with loader) to the port on your loader. Hold the "push button" at the other end of the Pendant Switch with your thumb, to keep your loader active in local mode. This switch is a remote hand-held push button switch and is a safety feature which allows the operator to operate the machine.

Never limit the operator's ability to safely exist from behind the loader while operating in local mode.

Do not add an after-market safety restraint system to the machine.



⚠ DANGER

Exercise extreme care on sloping terrain. Avoid traveling or working across a slope.

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Starting - Remote Control

Place the controls around your waist ensuring a comfortable and ergonomic fit.

Ensure that the remote control battery is fully charged, all levers including lights are OFF.

Tram steer (Switch-8) is in steer mode and all controls are in their neutral (centre) position.

Refer to the engine manual and "Cold Weather Starting" section of this manual for correct throttle starting positions in warm and cold conditions.

Turn battery lockout switch to the "ON" position and selector switch to the "Remote" position from loader.

Insert remote Key-15 to Key port-6 and turn clockwise, push forward Button-14 to activate the signal and ignition.

The blue enable light will flash fast on receiver box located on the loader.

Pull down Switch-11 until glow plug indicator light goes off on the loader.

Loader speed can be changed from default mode (slow travel speed) to fast mode (fast travel speed) by using Switch-10.

⚠ CAUTION

While operating in remote mode, the speed of the loader should only be changed when it is completely in stationary position. Failure to do so can cause series damage to the machine.

Starting - Remote Control With Control Cable

The cable control connects the transmitting unit to the receiving unit through a cable to replace the radio link. The cable control is used in following conditions:

- If it is not possible to establish a radio link between the radio remote control units.
- Working in environments where using radio frequencies is not allowed or is dangerous.
- When a fully charged battery is not available.

Plug the cable in to the connectors, one on the transmitting unit to Port-16 and the other on the receiving unit.

Do not change the working features such as actuators and the data feedback function, while using the control cable.

⚠ CAUTION

The use of the cable control entails risk of electric shock when working near overhead or underground power line cables.

Before starting work, make sure that the cable and corresponding connectors are intact.

Perform site risk assessment to ensure the machine position and passages are safe to avoid cable control damage by moving trolleys or any ongoing operations.

Lay the cable in a way to prevent it from being squashed or strained by people or objects.

Avoid contact with sharp or cutting objects, which can cut the cable's protective sheath.

⚠ CAUTION

Do not move any levers present on the loader by hand, if the system is in the "Remote" function. This may damage the controls.

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V25.0

⚠ CAUTION

Cable control must only be connected or disconnected when the transmitting unit is 'OFF'. When finished working with cable control, disconnect the cable from transmitting unit on your machine and use protection caps on connectors.

The cable control cannot be used if the radio remote control is installed on a machine, which controls loads not isolated from an AC power supply or from a DC power supply higher than 30V.

When working with the cable control, the radio link is cut off. Following procedure should be used to control the machine with the cable control:

- Power on the receiving unit, respecting the voltage limits provided in technical data - The Power LED switches "ON".
- Ensure that the battery is inside the transmitting unit and leave it there, even though the power supply comes from the receiving unit through the cable control. The battery is not recharged through the cable control. It can only be recharged through its appropriate battery charger, provided with the system.
- Connect the cable control to its connector in receiving unit.
- Connect the cable control to its connector on the transmitting unit.
- Insert the power key switch in the transmitting unit.
- Press the 'Start' push button and hold it down until the green LED blinks slowly.
- When the green LED illuminates and blinks slowly, the radio remote control is active and it can send commands and activate the machine.

While using the cable control and the waist belt/ shoulder harness at the same time, a physical connection establishes between operator and the machine. Therefore, the operator must constantly monitor the machine movements, especially in case of loss of control such as overturning risk or cable dragging by other machinery. In any such instance, the user must pull out the belt or open it by unfastening its buckles.

Cold Weather Starting

1. Turn the key to the "PREHEATING" position and keep it there for a certain period mentioned below.

Important
Shown below are the standard preheating times for various temperatures. This operation, however, is not required, when the engine is warmed up.

Item \ Cold intensity			Low temperatures more than 258 K {-15 °C (5 °F)}	Intense cold more than 253 K {-20 °C (-4 °F)}	Extreme cold more than 248 K {-25 °C (-13 °F)}
Combustion	Fuel	For cold weather	No. 1-D (ASTM D975-94)	No. 1-D (ASTM D975-94)	No. 1-D (ASTM D975-94)
	Preheating	Combustion Chamber	Glow 10 sec	Glow 10 sec	Glow 10 sec
		Intake air	-	-	Preheating
		Engine body	-	-	Preheating
Turning Force	Starter		Standard	Size up from std.	Size up from std.
	Battery		Standard	Size up from std.	Size up from std.
Lubrication	Oil	For cold weather	SAE #10W or SAE #10W30	SAE #5W or SAE #10W30	SAE #5W or SAE #5W20
Cooling	Coolant		Antifreeze	Antifreeze	Antifreeze
			-	-	Preheating

Note
In case of installing standard glow lamp, glow lamp goes off after about 6 seconds, when the starter switch key is turned to the "PREHEATING" position. However if necessary, keep the starter switch key at the "PREHEATING" position for longer time, according to the above recommendation.

2. Turn the key to the "STARTING" position and the engine should start. (If the engine fails to start after 10 seconds, turn off the key for 5 to 30 seconds. Then repeat steps (1) and (2).)

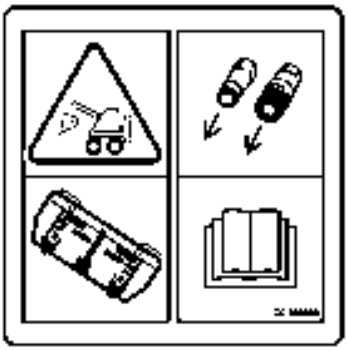
Important
- Do not allow the starter motor to run continuously for more than 20 seconds.

- Be sure to warm up the engine, not only in winter, but also in warmer seasons. An insufficiently warmed-up engine can shorten its service life.

- When there is fear of temperature dropping below -15°C (5°F) detach the battery from the machine, and keep it indoors in a safe area, to be reinstalled just before the next operation.

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Maneuvering



⚠ WARNING

Always ensure that the attachment locking pins are fully engaged at all times.

Manoeuvring is made possible by individual control of the hydraulic motors on each side of the machine.

In local mode, the left drive control Lever-4 and the right drive control Lever-5 are used for manoeuvring.

In remote mode the left drive control Lever-3 and the right drive control Lever-4 are used for manoeuvring.

Note
Please refer to "Working on Slopes" for Information on MANOEUVRING on slopes.

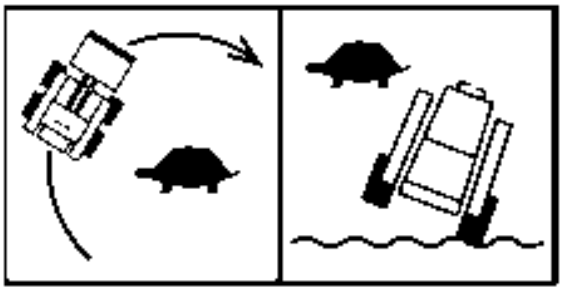
⚠ CAUTION

If an operator is unfamiliar with the loader's operation, he or she should practice slow starts, gentle stops, and controlled turns in an open, safe area prior to beginning work.

Turning

When the power and/or direction on one side of the loader is different from that on the other, the loader will turn. For example, applying forward power to one side and equal reverse power to the other will cause the loader to turn by its own length.

While moving forward, a gentle turn to the left or right can be achieved in two ways. The power can be slightly increased on the side opposite the turn or it can be decreased on the turning side. This mode of steering allows the type of turn to be chosen to suit the situation.



⚠ WARNING

Always ensure that the attachment locking pins are fully engaged at all times.

Note
Please refer to "Working on Slopes" for Information on TURNING on slopes.

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Operate Loader Attachments

About Loader Attachments

Your Kanga Loader becomes a powerful, job specific work tool with the addition of attachments. Attachments are available for civil, arbour, agricultural, landscaping, road maintenance, earthmoving, fencing, contracting, irrigation and other applications.

⚠ CAUTION

Ensure that all the hydraulic hoses of attachment are run through hose support brackets. This will keep them secure and away from entanglement with loader arms, cylinders, and other parts.

Note
Moving the 4 in 1 lever or the AUX lever back and forth with the engine off will release any pressure built up in the system.

Safety Guidelines for Attachments

In addition to the general safety practices related to the operation of your Kanga Loader, you must follow the safety guidelines given for the attachment you are using. Before commencing work with any attachment, ensure that all tasks and risks associated with the activity have been identified and appropriate risk mitigation measures have been put in place.

⚠ WARNING

Only Kanga-designed and approved attachments are to be used in conjunction with your Kanga Loader. No other attachment is to be used until the design and use of the attachment has been assessed and authorized by Kanga.



⚠ WARNING

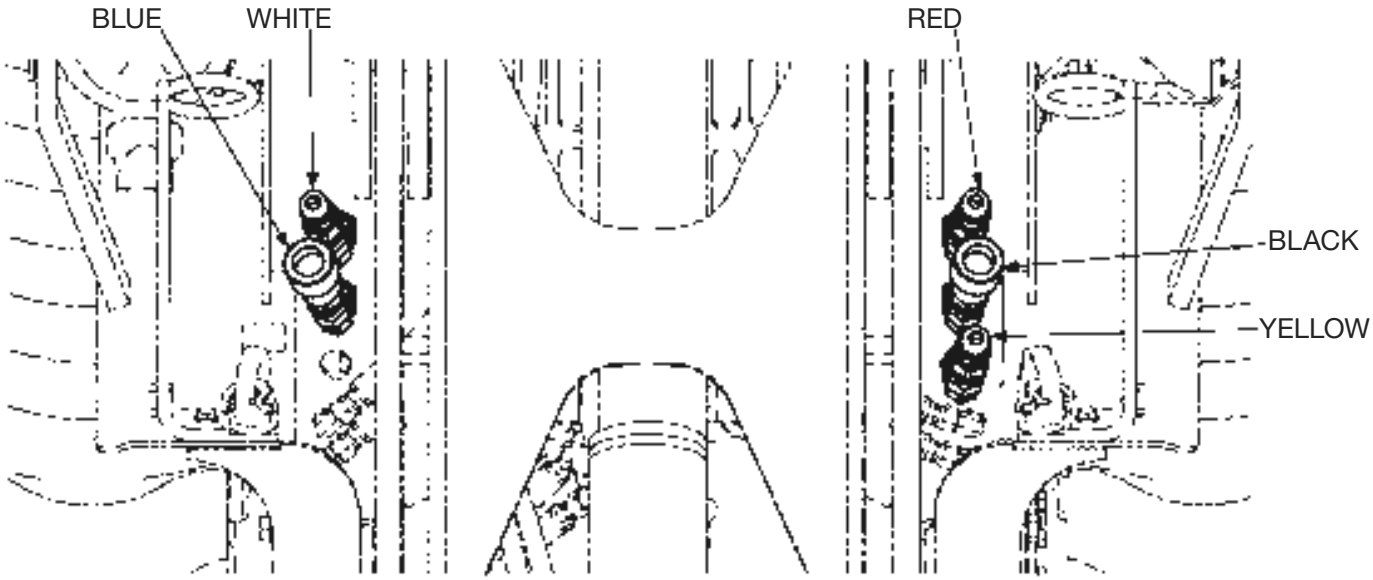
Before use, always read the operator's manual and ensure the attachment is securely attached to the machine. Locking pins must be engaged and hydraulic hoses connected.

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Hydraulic Attachment Connections

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

Colour Coding of Attachment QRCs	STANDING ON REAR OF MACHINE				
	LEFT SIDE (Controlled by the AUX lever.)			**RIGHT SIDE (**Controlled by the 4-in-1 lever.)	
	YELLOW	BLACK	RED	BLUE	WHITE
	B MALE QRC	A FEMALE QRC	C MALE QRC TRENCHER VALVE	4-in-1 FEMALE QRC	4-in-1 MALE QRC
4-in-1 Bucket				x	x
Auger Power Head	x	x			
Backfill Blade				x	x
Bucket Broom		x	x		
Grapple Bucket				x	x
Mixa Bowl	x	x			
Rotary Hoe		x	x		
Rotating Log Grab	x	x		x	x
Trencher		x	x		
Under-Road Borer	x	x			



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4-in-1 Attachment

Using the 4-in-1 Bucket

Connect to Blue and White couplings.

When collecting product from a heap or pile, lower the arms all the way down until the arms touch the bump stop. Then using your Tilt lever roll forward until the bucket is level with the ground. Drive the bucket into the pile or heap. As the loader comes to a stop, hold the drive levers forward and gently roll the bucket back using the tilt lever towards the operator. This process will make sure you have a full load in your bucket. Using the tilt instead of raising will decrease resistance and have more break out force then trying to lift product out of the pile or heap.

Note
Tilt lever = Lever-6 in local mode.
Tilt Lever = Lever-5 in remote mode.

⚠ WARNING

When transporting material in the bucket on slopes or rough ground, always keep the bucket close to the ground. This lowers the loader's centre of gravity to maximize stability.

When scraping, levelling, and surface stripping, lower the bucket to the ground and tilt it down.

Drive forward. The bucket will bite into the soil as you move forward.

⚠ CAUTION

Always ensure that the attachment locking pins are fully engaged at all times.

Important Safety Guidelines

Always attach, change or remove a bucket on flat even ground. Loader operations involve rapid movement and unpredictable direction changes. Because of this, the working area must be kept clear of bystanders and any personnel other than the operator. To avoid accidents, the operator must be vigilant at all times.

Establish and maintain a minimum 4-meter (12-feet) exclusion zone around the working area. No person other than the operator should enter the work zone while the machine's engine is running.

Observe all underground utility markings carefully. Maintain a no-work zone 2 meters (6 feet) from any utility marking.

Do not carry passengers, either on the machine or an attachment.

⚠ DANGER

Do not place an object or body part between the jaws of an open bucket or under the bucket for any reason.

⚠ CAUTION

Ensure that all the hydraulic hoses of attachment are run through hose support brackets. This will keep them secure and away from entanglement with loader arms, cylinders, and other parts.

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Power Head and Auger Attachments

Fitting the Power Head

Drive the loader to the attachment. Couple the attachment plate onto the attachment. Raise the power head slightly and fully engage the locking pins. Turn the engine off and push the AUX lever forward and backward in remote mode (Switch-9) or upward and downward in local mode (Lever-3) to release any hydraulic line pressure. Clean the hydraulic fittings (QRCs) and connect them to connections Yellow (B) and Black (A). For details see "Hydraulic attachment connections".

Note
AUX lever = Lever-3 in local mode.
AUX lever = Switch-9 in remote mode.

To remove, reverse the order given above. To prohibit dirt from entering the hydraulic system, always reconnect the attachment hoses into one another or fit with supplied dust caps.

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 and aligning the locking pin holes.

⚠ DANGER

Do not place hands, feet, or other body part or object under the auger attachment for any reason.

Operating Instructions

Complete a pre-operation check. Insert the locking pins and lock in place. Ensure that the power head is securely attached to the loader. Check that the couplings are engaged and check for leaks. Tighten and repair as required. Check that bolts securing the pilot are tight. Inspect the cutting tips and teeth. Ensure that they are in good condition and firmly attached.

Start the auger turning in a clockwise direction by activating the AUX lever downward towards the operator. Lower the auger by pushing the arm lever forward. If the ground is hard, the front wheels of the loader will lift off the ground.

Note
The front wheels should never come off the ground more than 1 inch (25mm).

As the auger cuts into the ground, the arm travel arc will move the auger out of vertical. To keep the auger vertical, move the loader backward or forward slightly to compensate. Continually clear the hole during digging by pulling back on the arm lever to raise the auger.

If the auger stops rotating, push the AUX forward to disengage hydraulic flow to the power head. Push further forward and hold the auxiliary lever to put the power head in reverse. This may dislodge the auger, allowing it to be raised. If the auger does not dislodge then push forward on the auxiliary lever and pull back on the tilt lever to pull out the auger while rotating. Drill a trial hole in a clear area away from utility markings to practice operations and become familiar with the procedure.

⚠ DANGER

Keep clear of the auger at all times (4m/12 ft minimum distance).

When transporting the auger drive to the desired location the arms should never be raised in the air. The arms should be against the chassis in the bump stop position and the power head should be in the locked position. Then fully rolled back towards the operator using the tilt lever.

Important Safety Guidelines

Establish and maintain a minimum 4-meter (12-feet) exclusion zone around the working area. No person other than the operator should enter the work zone while the machine's engine is running. Observe all underground utility markings carefully. Maintain a no-work zone 2 meters (6 feet) from any utility marking.

⚠ CAUTION

Large auger fitting is a two-person operation.

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Trencher Attachment

Fitting a Trencher

Drive the loader to the attachment. Couple the attachment plate onto the attachment. Raise the trencher slightly and fully engage the locking pins. Turn the engine off and push the AUX lever forward and backward in remote mode (Switch-9) or upward and downward in local mode (Lever-3) to release any hydraulic line pressure. Clean the hydraulic fittings (QRCs) and connect them to connections Black (A) and Red (C). For details see "Hydraulic attachment connections".

To remove, reverse the order given above. To prohibit dirt from entering the hydraulic system, always reconnect the attachment hoses into one another or fit with supplied dust caps.

Operating Instructions

Complete a pre-operation check. Ensure that the trencher is securely attached to the loader. Check that the couplings are engaged and check all joints for leaks. Tighten and repair as required. Inspect the cutting teeth, ensuring that they are in good condition and firmly attached.

Tension the chain. Correct tension requires about 35–45mm (1.5 inches) of lift. To adjust the chain to this specification, loosen the 16mm (0.63 inches) bolt, adjust the adjustment wedge and re-tighten the bolt.

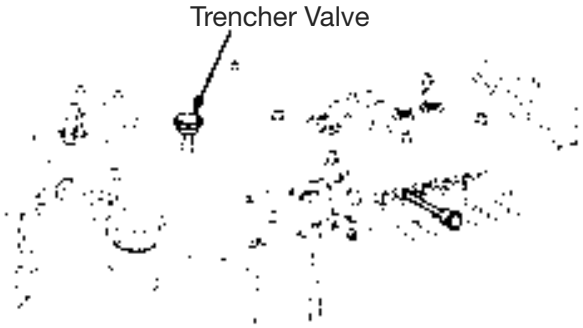
Position the trencher and activate the AUX lever so that the chain runs along the top of the boom and returns back toward the operator on the underside. Engage the Tilt lever so that the boom and chain arcs down to dig a trench. When the desired depth is achieved, slowly drive the loader backward along the trench line.

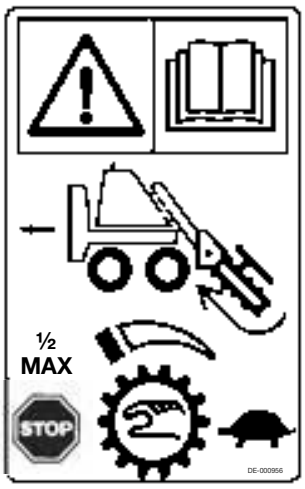
Note
Tilt lever = Lever-6 in local mode.
Tilt lever = Lever-5 in remote mode.
Drive levers = Lever-4 and Lever-5 in local mode.
Drive levers = Lever-3 and Lever-4 in remote mode.
AUX lever = Lever-3 in local mode.
AUX lever = Switch-9 in remote mode.

Setting the Trenching Valve

- Use the knob on the trenching valve to adjust the ground speed of the loader. Turning the knob clockwise will make loader move slower while turning the knob anti-clockwise will increase the speed of the loader.
- Turn the knob on the trenching valve in clockwise direction to reduce loader's speed to zero.
- Lower the attachment to working position, push and hold the drive levers all the way back on and increase the revs to desired level (refer to **"Controls"** section of this manual).

Note
Minor adjustments are required to maintain a straight line, as the loader will tend to "drift" to the left. Only operator to control the loaders' drive levers and adjust the knob on the trenching valve.





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Trencher Attachment (continued)

Important Safety Guidelines

Establish and maintain a minimum 4-meter (12-feet) exclusion zone around the working area. No person other than the operator should enter the work zone while the machine's engine is running.

Observe all underground utility markings carefully. Maintain a no-work zone 2 meters (6 feet) from any utility marking.

⚠ CAUTION

Ensure that all the hydraulic hoses of attachment are run through hose support brackets. This will keep them secure and away from entanglement with loader arms, cylinders, and other parts.

⚠ DANGER

Call the respective "Dial Before You Dig" authority for your Country or State, several days before work will commence to have the work area marked for underground utilities. Do not begin work until all markings are in place.

⚠ DANGER

Do not place hands, feet, or other body part or object under the trencher for any reason.

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Bucket Broom Attachment

Fitting the Bucket Broom

Connect the attachment plate of the loader to the bucket broom frame. Check to confirm that the quick hitch attachment locking pins are engaged. Turn the engine off and push the AUX lever forward and backward in remote mode (Switch-9) or upward and downward in local mode (Lever-3) to release any hydraulic line pressure. Clean the hydraulic fittings (QRCs) and connect bucket broom hoses to connections A and C (see "Hydraulic Attachment Connections").

To remove, reverse the order given above. To prohibit dirt from entering the hydraulic system, always reconnect the attachment hoses into one another or fit with supplied dust caps.

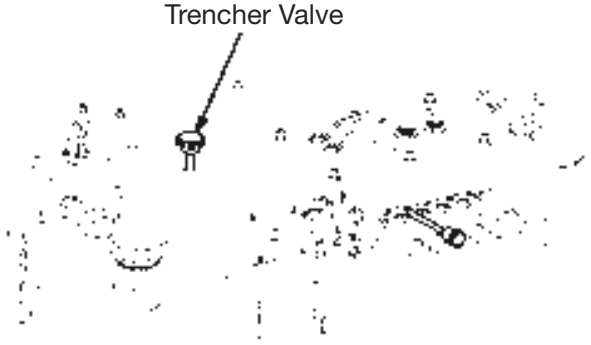
Operating Instructions

Place the AUX lever (Switch-9 in remote mode or Lever-3 in local mode) in neutral. Start the engine and adjust the engine RPM lever to suit the operation power you require. Position the bucket broom flat on the ground. Engage the AUX lever, pulling towards the operator. The broom will begin rotating and sweeping into the bucket base.

Bucket Broom should be used in conjunction with Trenching Valve (if available on machine).

Setting the Trenching Valve

- On low engine revs and with the attachment off the ground engage the AUX lever.
- Increase the revs to desired level.
- Lower the attachment to working position.
- Push drive levers all the way forward.



- Use the knob on the trenching valve to adjust the ground speed of the loader. Turning the knob clockwise will make loader move slower while turning the knob anti-clockwise will increase the speed of the loader.

Note
The bucket should only be pushed forward with the loader drive system.

To empty debris from the bucket, disengage the AUX lever and tilt the bucket back slightly. Travel to the dumping location, then raise the lift arm with Lever-2 (for both local and remote mode) and tilt the bucket forward to dump the debris out using Tilt lever (refer to "Controls" section of this manual).

Note

Tilt lever = Lever-6 in local mode.

Tilt lever = Lever-5 in remote mode.

Drive levers = Lever-4 and Lever-5 in local mode.

Drive levers = Lever-3 and Lever-4 in remote mode

Important Safety Guidelines

Establish and maintain a minimum 4-meter (12-feet) exclusion zone around the working area. No person other than the operator should enter the work zone while the machine's engine is running.

Observe all underground utility markings carefully. Maintain a no-work zone 2 meters (6 feet) from any utility marking.

⚠ CAUTION

Wear respiratory and eye protection while using the bucket broom.

Note
If Trencher valve is not available on your Kanga Loader, connect the bucket broom hoses to connections A and B. Control the speed by gently engaging both drive levers forward. The further forward the levers are pressed, the faster the machine travels. Allowing the levers to gently return to centre will slow the machine's travels. Allowing the levers to gently return to centre will slow the machine's travel.

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Rotary Hoe Attachment

Fitting the Rotary Hoe

Connect the attachment plate of the loader to the rotary hoe frame. Check to confirm that the quick hitch attachment locking pins are engaged. Turn the engine off and push the AUX lever forward and backward in remote mode (Switch-9) or upward and downward in local mode (Lever-3) to release any hydraulic line pressure. Clean the hydraulic fittings (QRCs) and connect them to connections Black (A) and Red (C). For details see "Hydraulic attachment connections".

To remove, reverse the order given above. To prohibit dirt from entering the hydraulic system, always reconnect the attachment hoses into one another or fit with supplied dust caps.

Operating Instructions

Complete a pre-operation check. Confirm that the rotary hoe is securely attached to the loader and the couplings are engaged. Check all joints for leaks. Tighten and repair as required. Check that the rotary hoe and cutting blades are in good condition.

Place the AUX lever (Switch-9 in remote mode or Lever-3 in local mode) in neutral. Start the engine and adjust the engine RPM lever to suit the operation power you require. Position the rotary hoe flat on the ground. Engage the AUX lever, pulling towards the operator. The hoe blades will begin rotating.

Rotary Hoe should be used in conjunction with Trenching Valve (If available on machine).

Note
Drive levers = Lever-4 and Lever-5 in local mode.
Drive levers = Lever-3 and Lever-4 in remote mode.

Setting the Trenching Valve

- On low engine revs and with the attachment off the ground engage the AUX lever.
- Increase the revs to desired level.
- Lower the attachment to working position.
- Push drive levers all the way back.
- Use the knob on the trenching valve to adjust the ground speed of the loader. Turning the knob clockwise will make loader move slower while turning the knob anti-clockwise will increase the speed of the loader.

Control speed by gently engaging both levers rearward. The further rearward the levers are pressed, the faster the machine travels. Allowing the levers to gently return to centre will slow the machine's travel.

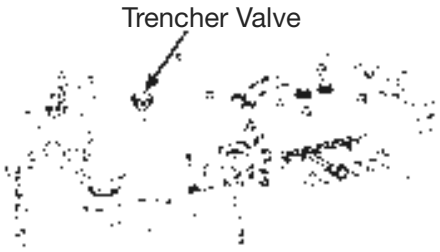
Adjust the travel speed of the loader to achieve the required condition of the soil. For example, slower travel speed will turn the soil over more, resulting in softer soil, and faster speed will turn the soil over less, resulting in a chunkier soil texture.

Note
The rotary hoe should only be pulled in reverse with the loader drive system. Do not push the rotary hoe.

If Trencher valve is not available on your Kanga Loader, connect rotary hoe hoses to connections A and B.

Important Safety Guidelines

Establish and maintain a minimum 4-meter (12-feet) exclusion zone around the working area. No person other than the operator should enter the work zone while the machine's engine is running



DANGER

Do not place hands, feet, or other body part or object near or under the rotary hoe for any reason.

DANGER

Never carry out maintenance of any type on the rotary hoe while it is attached to the loader or other power source.

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Fork Tyne Attachment

Important Safety Guidelines

Establish and maintain a minimum 4-meter (12-feet) exclusion zone around the working area. No person other than the operator should enter the work zone while the machine's engine is running.

Observe all underground utility markings carefully. Maintain a no-work zone 2 meters (6 feet) from any utility marking.

Do not carry passengers, either on the machine or on the tynes.

Do not travel with the tynes raised, especially when carrying loads.

Avoid overloading the loader or the fork tynes. Refer to the fork tyne manual for specific Rated Operating Capacity (ROC).

⚠ DANGER

Do not place hands, feet, or other body part or object under the forks for any reason.

Angled Backfill Blade Attachment

Important Safety Guidelines

Connect to 4 in 1 bucket circuit (Blue + White).

Establish and maintain a minimum 4-meter (12-feet) exclusion zone around the working area. No person other than the operator should enter the work zone while the machine's engine is running.

Observe all underground utility markings carefully. Maintain a no-work zone 2 meters (6 feet) from any utility marking.

Do not carry passengers on the machine or on attachment.

Do not travel with attachment raised.

⚠ DANGER

Do not place hands, feet, or other body part or object under or near the angled backfill blade for any reason.

Terminator Stump Grinder Attachment

Important Safety Guidelines

Connect slew function to 4 in 1 bucket circuit (Blue + White).

Establish and maintain a minimum 10-meters (33-foot) exclusion zone around the working area. No person other than the operator should enter the work zone while the machine's engine or the stump grinder is running.

Install effective 2-meter (6-feet) perimeter barricades around the exclusion zone.

Observe all underground utility markings carefully. Maintain a no-work zone 2 meters (6 feet) from any utility marking.

Wear respiratory, hearing and eye protection.

⚠ CAUTION

Do not touch the exhaust, engine parts, hydraulic pipes and fittings, guards, or stump grinder wheel soon after use. These parts will be hot and pose a burn hazard.

⚠ DANGER

Do not place hands, feet, or other body part or object under or near the stump grinder for any reason.

⚠ CAUTION

Ensure that all the hydraulic hoses of attachment are run through hose support brackets. This will keep them secure and away from entanglement with loader arms, cylinders, and other parts.

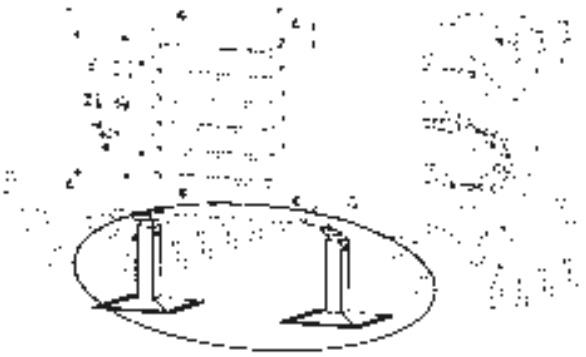
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Install Track (8 Series)

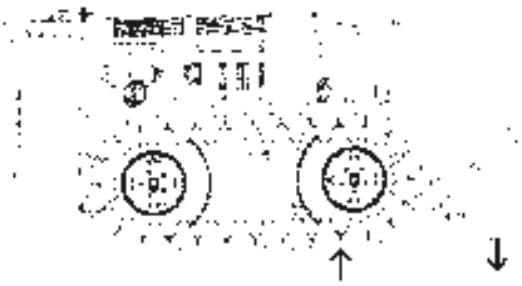
Preparation

1. Attach a bucket to the loader, ensuring attachment locking pins are fully engaged.
2. Position the loader on solid and level ground for a stable working base **(A)**.
3. Place suitable wood blocks or stands under the flat section of the loader base at the rear of the loader.
4. Place the bucket flat on the ground.
5. Tilt the bucket forward (as if dumping) to lift the loader off the ground. It will be supported by the block and the bucket.
6. When tracks are clear of the ground at both ends, place another wooden block or a stand under the base at the front of the loader **(B)**.
7. Deflate tyres to 15 psi (103 kPa) .
8. Remove the wheel nuts and use a suitable lever to remove the front wheel from the hub. Repeat for the rear wheel.

A



B



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Installation

1. Position the wheels with air valves in the same orientation **(C)**. This will assist in aligning the wheels to the studs. Lay wheels and tracks flat on the floor.

2. Attach the left and right end segments of the installation tool to each wheel **(D)**.

3. Slide the guide through both segments **(E)**.

4. Install the scissor jack with handle end pointing through the top of the track (**F**).

5. Tension the jack to extend the track assembly. Stand the track upright.

6. Working with another person, lift the tracks onto hub spigot. Adjust the jack as needed.

7. Rotate the rear hub using an adjustable wrench. Align the studs with the wheel while depressing forward/reverse control lever **(G)**. **Do not start the engine.**

8. Locate the rear wheel on the hub and studs. Place one wheel nut to hold the wheel to the hub.

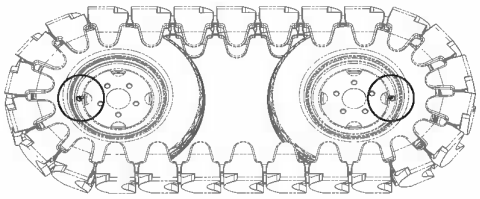
9. Rotate the front hub using an adjustable wrench. Align the studs to the wheel while depressing forward/reverse control lever. **Do not start engine.**

   Note
   To do this, the jack may have to be extended or retracted. If the tracks cannot be extended far enough using the scissor jack, reduce the tyre pressure and extend the scissor jack further.

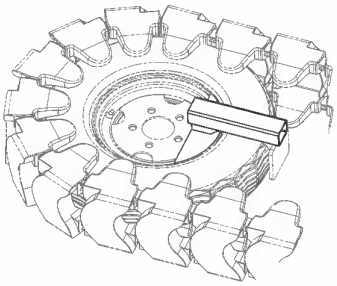
10. Install all wheel nuts and tighten to 135Nm (100 ft·lb).

11. Re-inflate tyres to between 55 psi (379 kPa) and 75 psi (517 kPa). Refer to the tyre pressure section for further information.

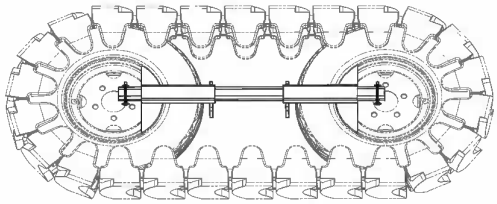
C



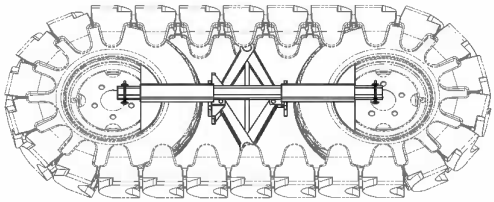
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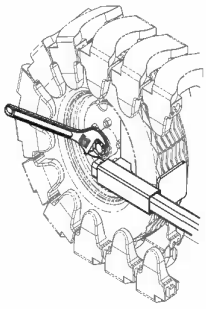
E



F



G



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Track Orientation

URO Track Grip Option

For grip, the track can be set to two different configurations. All loaders are delivered with the configuration that is well-suited for a variety of working conditions. The second configuration (Option 2, right) is best for muddy or sandy conditions.

URO TRACK ROLLER TRAIN 8 SERIES (1 per side) Part Number **DL-003255**

Changing the Track Option

To change the track option, begin by removing the tracks from the machine, following the steps in the track removal section.

1. Once the track is removed, lay the track on its side. Use a flat-blade screwdriver or other suitable lever to move the chain through the track to the joining link **(H)**.

   Note
   If you have trouble doing this, you can purchase a spare joiner for repair or adjustment (Part Number **L-117900**).

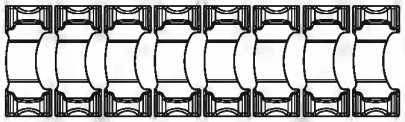
2. Once you have found the joining link, insert two 6mm bolts (or other suitable pins) to hold the chain while you remove the joiner link **(I)**.

3. Pull out the locking bolts and remove the chain by pulling it through the track segments. Turn the track and repeat steps 1 to 3 on the other side **(J)**.

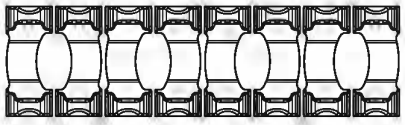
4. Lay segments out on the floor in the required pattern. Feed the chain in from one end to the other **(K)**.

(Continued on next page.)

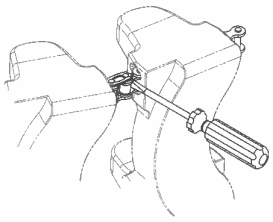
OPTION 1—STANDARD (SINGLE DIRECTION)



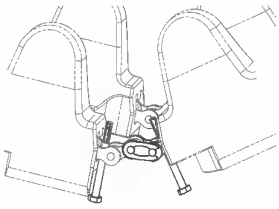
OPTION 2



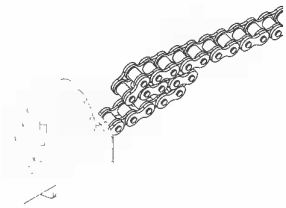
H



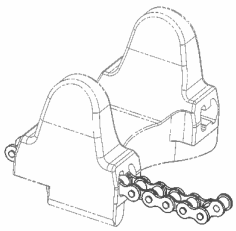
I



J



K



Note
Cleaning the chain will assist in the process of pulling the chain through. Wash it clean, then soak in diesel. If you have trouble feeding the chain through, thread in a piece of 3mm wire from the opposite end, connect it to the chain, and gently pull the chain through.

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Changing the Track Option (continued)

5. Once the chain is fed all the way through, install the 6mm locking pin in one end of the chain and push up all the segments tightly. Insert the 6mm locking pin through the other end. Repeat steps 4 and 5 with the chain on the other side **(L)**.

6. Once both chains are pulled through and secured with pins, lay the track on its side. Place the securing pins through the link.

   Note
   Ensure that the holes through which you will fit the joining link are exposed **(M)***.*

7. With the track on its side, install the joining link from inside to outside. The spring clip is on the outside. Flip the track over and repeat on the other side. Remove the locking bolts (or pins, if used) and the track is now ready to install. Refer to track installation instructions

Track Link Removal

If traction between the drive wheel and track is lost, increase tyre pressure in 5 PSI (34 KPA) stages to compensate for wear. If traction is lost when the tyre pressure is set at 75 PSI (517 KPA), you must tighten the tracks by removing track chain links. The following steps describe track link removal.

1. Follow the track removal instructions to remove tracks.

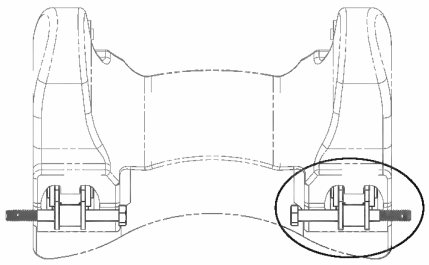
2. Once track is removed, lay the track on its side.

3. Choose a spot on the track. Pry the left-hand segment apart to allow the insertion of a 6mm locking bolt through the chain link. Next, pry the right-hand segment back as far as you can with a screwdriver to expose two full side plates (four pins).

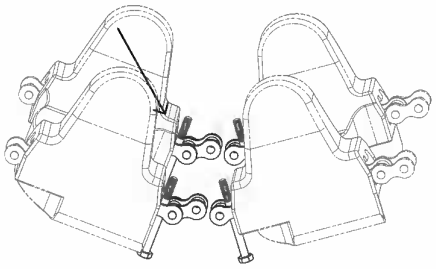
4. Use a chain splitter or angle grinder to grind off two pins on the outside of the four pins. This action will remove one link. Use a pin punch to drive the pins out to release the chain section (**N**).

5. Turn the track over and perform the same steps on the other side, releasing the track so it is no longer joined.

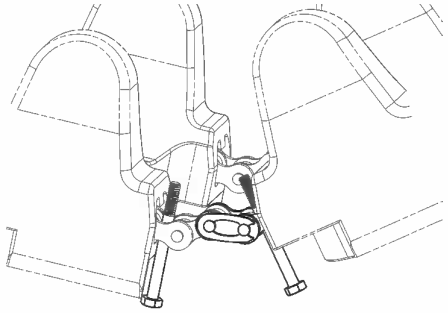
L



M



N



6. Use joiner link (Part Number **L-117900**) to rejoin the chain. You have now shortened the chain by one link. Turn track over and perform the same steps on the other side.

7. Remove the 6mm locking bolts on both sides, and reinstall the tracks.

   Note
   Once links are removed, tyre pressure must be decreased to normal levels.

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Maintain Your Kanga Loader

Inspection and Checks

Before operating the Kanga Loader each day, the operator must complete the inspection and checks as outlined on the following pages. This inspection will ensure the equipment is in safe working order and aid in the detection of malfunctions between scheduled maintenance checks.

⚠ CAUTION

While it may not be the operator's responsibility to perform mechanical maintenance, he or she should be thoroughly familiar with the loader. Such familiarity is critical to operator safety.

⚠ DANGER

In addition to ensuring safety, the daily inspection can prevent many costly maintenance jobs. Should an issue arise, however, consult an authorized Kanga technician.

The owner should retain evidence that proper maintenance has been performed as prescribed. A claim against a warranty will not qualify if it results not from defective material or authorized workmanship, but from a lack of maintenance.

Never operate a Kanga Loader that is known to be damaged or malfunctioning. Remove the key from the ignition and tag out the machine using an "Out of Service" tag. Contact your Kanga service technician.

Defective components, equipment malfunctions, or both can jeopardize the safety of the operator and other personnel while also causing extensive damage to your loader. Remember: A poorly maintained loader can be a significant operational hazard.



⚠ CAUTION

Before any maintenance is performed, switch engine off and remove the key. Never leave the key in an unattended machine.



⚠ WARNING

This machine operates on high pressure hydraulic fluid. Always wear eye protection when operating or performing maintenance on this machine. Consult this operator's manual for information on safe connection and disconnection of attachments for hydraulic safety.

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Daily Checklist

LOADER				
Element		Yes	No	Comment
Wheels	Good condition, with adequate tread			
	Adequate pressure			
	Wheel nuts secure			
Guarding	Good condition			
	Secure			
Hydraulics	Good condition of hoses (check for leaks)			
	Good condition of casings (check for leaks)			
	Good condition of rams (check for leaks)			
	Adequate hydraulic oil level			
Controls	Correct operation			
	Responsiveness			
Structure	Adequate weld condition			
	Free of cracks or damage			
	Linkage pins greased			
Bolts and fasteners	Check pivot pins for wear or damage			
	Tight			
	None missing or damaged			
Battery	Terminals tight			
	Free of corrosion			
	Good condition (check indicator)			
Safety decals	Legible			
	All in place			
Engine	Adequate crankcase oil level			
	Check air cleaner/filter			
Air Management	Empty pre-filter cleaner bowl (if fitted)			
	Clean air filter			

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Daily Checklist (continued)

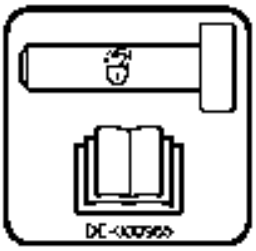
Element		Yes	No	Comment
Fuel	No leakage			
	Adequate fuel level			
	Drain water tap, if fitted as optional extra			
Water (diesel loader only)	Radiator hose/water level			
Operator's Manual	Present with machine			

ATTACHMENT(S)				
Element		Yes	No	Comment
Guarding	Good condition			
	Secure			
Hydraulics	Good condition of hoses (check for leaks)			
	Good condition of casings (check for leaks)			
	Good condition of rams (check for leaks)			
Controls	Correct operation Responsiveness			
Structure	Adequate weld condition			
	Free of cracks or damage			
Bolts and fasteners	Tight			
	None missing Attachment locking pins in place			
Decals	Legible			
	All in place			
Operating supplement	Present with machine/attachment			

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Loader Arm Maintenance

Important Safety Guidelines



DANGER

Attachments must be removed before working on the loader arms. Maintenance must be performed on a flat and even surface.

DANGER

When performing maintenance activities on the loader arm, particularly when working with the arm in the raised position, you must carefully follow all safety guidelines.

Always secure the arm using the supplied locking pins.

Ensure the working area is kept clean. The area must be free of oil, grease, and debris. Keep a fire extinguisher on hand during maintenance operations.

Mark the maintenance work area using cones or barricades.

DANGER

Never rely solely on machine hydraulics to keep the arm in the elevated position during maintenance.

Locking pins must always be used to physically hold the boom in the raised position.

Do not raise or lower the boom with the locking pins in place.

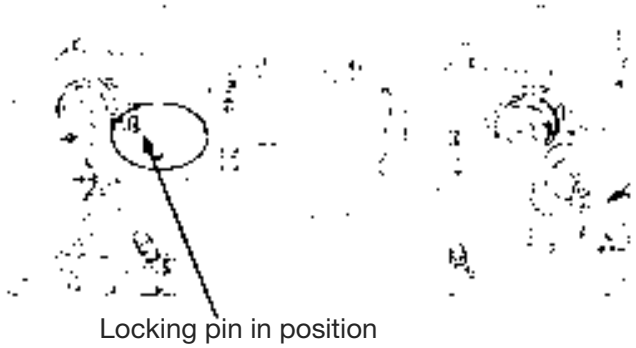
Remove attachment before working on loader arms.





DANGER

The loader arm poses a whole body crushing hazard. Ensure loader pins are fully and correctly installed whenever the arm is raised for maintenance.





REPLACEMENT PARTS

ARM SAFETY PIN REPLACEMENT
Part Number **DL-000782**

RUBBER SAFETY PIN GROMMET
Part Number **DL-000837**

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Long-Term Loader Storage

If your Kanga loader must be stored for an extended period of time, follow these guidelines for preparation and storage.

Preparation

Complete the following maintenance prior to storage:

- Thoroughly clean the loader, including the engine compartment.
- Touch up the paint to prevent rusting.
- Replace worn or damaged parts.
- Lubricate the loader and grease any exposed cylinder rods.
- Replace all fluids and filters.
- Add fuel stabilizer to the fuel tank and operate the engine for several minutes to fully circulate the stabilizer.
- Remove the battery, check its electrolyte levels (If applicable) and ensure it is fully charged. Store the battery in a cool dry location where temperatures will remain above freezing.

Storage

To store, following these steps:

- Park your loader in a dry and protected location.
- Put the bucket flat on the ground.
- Place blocks under the frame to remove weight from the tyres.
- Set all controls in Neutral position.
- Cover the exhaust pipe opening and any other openings that might admit small animals.
- Tag the loader to clearly indicate it is in non-operational, storage condition.

Post-Storage Return to Operation

To return the loader to operation after a period of long-term storage, complete these steps:

- Remove cover(s) from exhaust pipe and other locations.
- Remove grease from exposed cylinder rods.
- Complete maintenance inspection and correct any issues detected.
- Lubricate the loader.
- Check tyre inflation and remove blocks under frame.
- Install a fully charged battery.
- Start the engine and operate for several minutes. Observe engine, panels, and systems for correct operation.
- Operate the loader, checking for correct function.
- Stop the engine and check for leaks. If detected, repair before returning the loader to service.

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End-of-Service-Life Disposal

When your Kanga loader has reached the end of its useful life, responsible disposal of its parts, components, and fluids is required. Fortunately, much of a Kanga loader can be recycled.

Note
Regulations and approaches related to the disposal of materials vary from region to region. Learn more about guidelines specific to your location before proceeding with loader disposal.

⚠ CAUTION

The steps required for proper disposal may expose the dismantler to hazardous or toxic materials. Proper PPE and safety precautions are required.

The following provides general steps for proper end-of-service-life disposal:

1. Remove hazardous materials in an area with a sturdy, non-permeable floor.

   Drain all hazardous fluids from gasoline/diesel fuel tanks, oil reservoirs, and similar.

   Remove the battery.

   Remove items containing toxic metals, such as mercury switches and lead battery connectors.

   Note
   Each of these materials and the rags, paper, sawdust, and gloves contaminated by them must be captured in suitable containers and disposed of properly. Avoid scattering this toxic material in the environment.

2. Dismantle the loader for usable or recyclable parts.

   Remove all usable or recyclable parts.

   Sell or store usable parts in safe, environmentally suitable ways.

   Recycle remaining parts through local environmental or recycling centres.

3. Recycle the metal hulk.

   After identifying a metal recycling vendor in your area, inquire about their requirements for preparing the metal hulk for recycling.

   As required by the metal recycler, remove all plastic, synthetic fabrics, and other non-metal components.

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Perform Service Tasks

About Service Tasks

The following service work should be completed only by a qualified Kanga service technician. Required service intervals are shown in the next section.

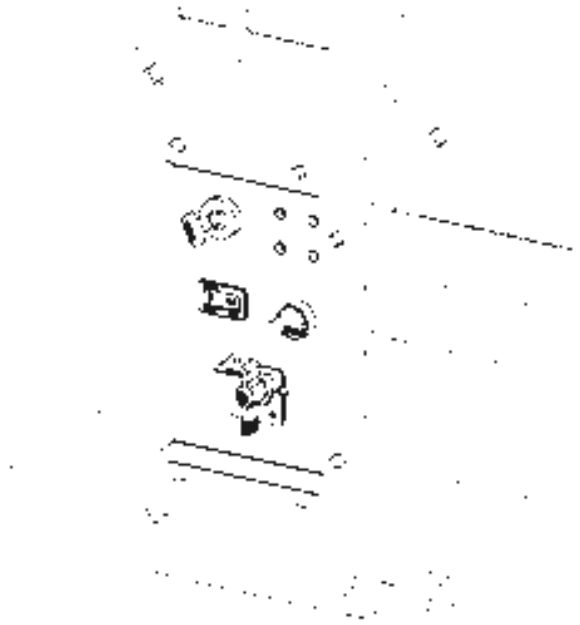
Determine Hours of Operation

Total hours of loader operation are displayed on the hour meter on the instrument panel.

Service Interval Indicator

When a service interval has been reached, the display will flash. Flashing ends after a two-hour operating period has passed. This is a generic setting from the gauge supplier. Please refer to the manual for correct service information.

Instrument Panel (Remote Loader - Series 8)



Other Instrument Panel Features

Also displayed on the instrument panel on all loaders is a charge warning light, and an oil warning light. Diesel loaders also include a water temperature warning light and glow plug light.

REPLACEMENT PARTS		
Description	**Part Number**	**Qty**
Engine oil filter	KS-000089	1
Air Filter (outer element)	DL-001227	1
Air Filter (inner safety)	DL-001230	1
Radiator Cap	KS-000081	1
Fan Belt	KS-000088	1
Spin-on Fuel Filter	DL-000500	1
In-line Fuel Filter	DL-002934	1
Glow Plugs	KS-000341	3
Kubota Replacement Key	KS-000092	1
Hour Clock	DL-000817	1

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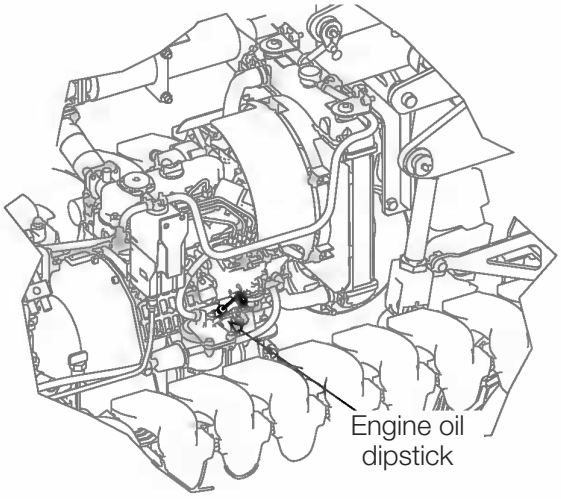
Service Tasks: Engine

Engine Oil

Change the engine oil after the first 20 hours of operation to ensure bed in service of the engine. Thereafter, change the oil after every 100 hours.

Engine oil type SAE10W-30 is generally recommended for diesel engines. The oil must have an API CF-4 grade or later. Follow the table below to adjust the engine oil to the operating ambient temperature. See the Kubota Engine manual for details.

FOR KUBOTA DIESEL ENGINE
Ambient temperature above 25°C (77°F): **SAE30 or SAE10W-30/SAE15W-40**
Ambient temperature -10°C to 25°C (14°F to 77°F): **SAE10W-30 or SAE15W-40**
Ambient temperature below -10°C (14°F): **SAE10W-30**

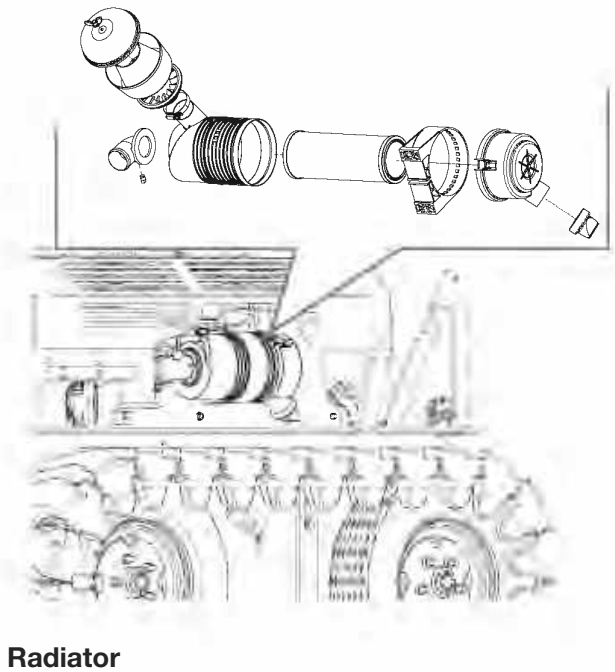


Engine Oil Filter

Replace the oil filter after every 100 hours of operation. See Kubota Engine Manual for details.

Air Filter

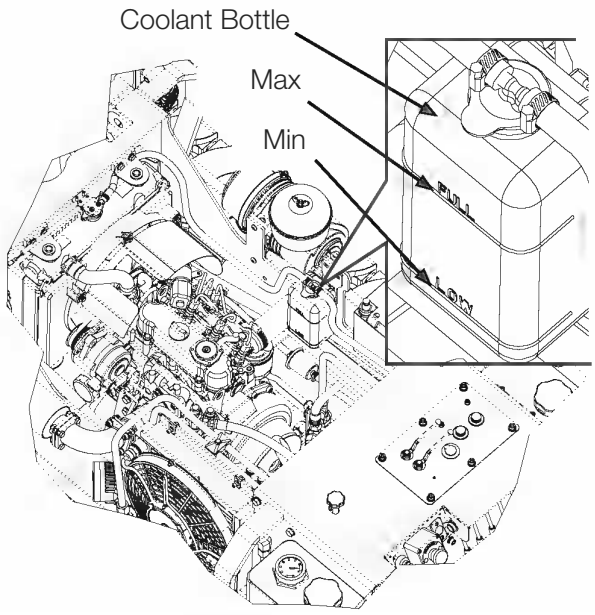
Replace the air filter element after every 100 hours of operation, or sooner if operating in a dusty environment. Primary Air Element 5" Donaldson.



Radiator

The radiator fluid bottle should be checked every day when the engine is cold and topped up when necessary. The system contains a pre-mix of demineralised water and long-life coolant (LLC hereafter) at a 1:1 ratio.

Use ethylene glycol type as an LLC and follow the instructions of the LLC's manufacturer for pre-mixing the coolant solution. Use always soft, demineralised water for diluting the solution.



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NOTE
Never use anti-freeze (LLC) pure or diluted in a proportion different from the one indicated by the manufacturer as it might damage the engine.

The radiator capacity is 3.1 litres (0.82 US gallons). Periodically check the radiator cap for proper performance. Replace as required.

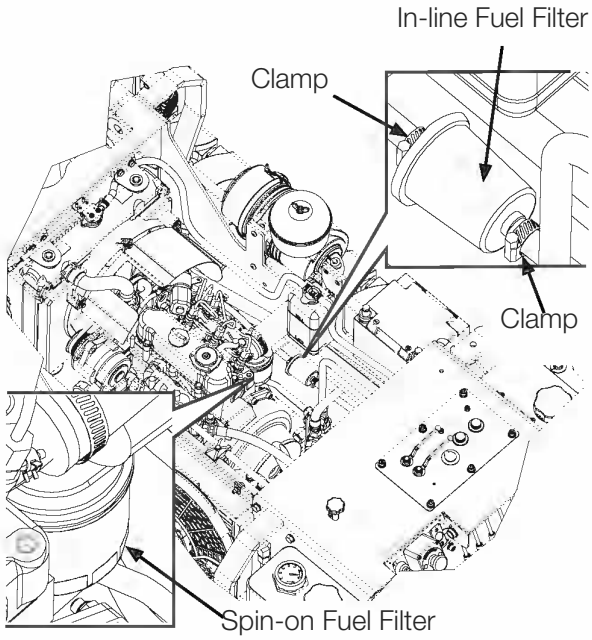
Fuel Filters

The engine is fitted with two fuel filters. An in-line filter and a spin-on canister filter. Replace both after every 100 hours of operation, or sooner if operating in a dusty environment.

To replace the inline filter, remove the clamps on each end of the filter. Lubricate the clamps with oil if necessary. Disconnect the fuel lines being careful to avoid ingress of contaminants. Reconnect the fuel lines to the new filter observing the correct flow direction. Tighten the clamps and ensure there are no fuel leaks. Replace any worn clamps or hoses.

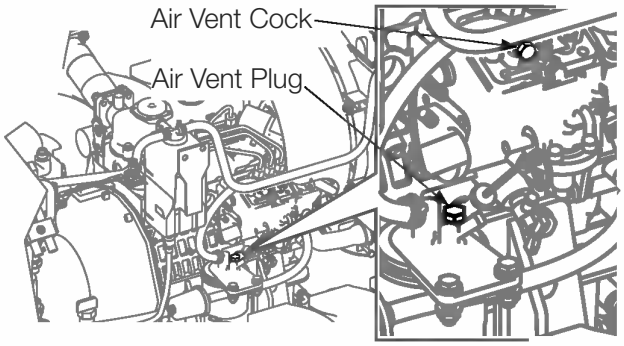
To remove the spin-on filter turn it clockwise (looking from the top) using a strap wrench. Clean the filter head using rags if required. Make sure to avoid the ingress of contaminants into the fuel lines. Lubricate the new filter gaskets using diesel (do not use grease). Fit the new spin-on fuel filter and tighten it using a strap wrench.

After replacing the filters, air bleed the fuel line.



Air Bleeding

To remove air from the fuel line, follow these steps:
1. Fill the fuel tanks to the maximum level.
2. Loosen the air vent plug of the spin-on air filter head a few turns.
3. Screw the plug back when bubbles do not come up anymore.
4. Open the air vent cock on top of the fuel injection pump.
5. Crank the engine for 10 to 15 seconds.
6. Close securely the air vent cock after bleeding.



NOTE
Always keep the air vent cock on the fuel injection pump closed except when air is vented, or it may cause the engine to stop.

Fan Belt

The fan belt should be checked regularly for signs of wear and changed in accordance with all manufacturer recommendations (see Kubota Engine manual).

Idle Speed

Check engine idle speed after every 200 hours of operation. Adjust if out of specification. See Kubota Engine manual for details.

Valve Clearances

Check and adjust engine valve clearances after every 800 hours of operation. Consult your Kanga Dealer.

⚠ DANGER

To avoid unintended start-up during service and repairs, attach a "Do Not Operate" or similar warning tag in the driver area.

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Service Tasks: Hydraulics

Hydraulics

Perform the following work after every 100 operating hours:

With arms down and oil cold, check hydraulic fluid level. Top-up with applicable Hydraulic Oil, if necessary (Refer the table on page 59).

Note
A significant drop in fluid levels indicates leakage.

Inspect all hydraulic hoses, tubes, fittings, valves, and rams for leaks and damage. Tighten loose fittings and replace damaged components.

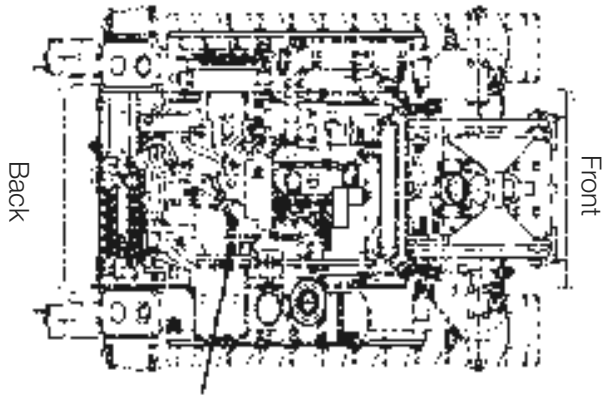
Check all three pressure settings every 200 hours (see procedure on following page) and adjust if necessary.

Hydraulic Filter
Replace the return line filter cartridge after every 200 operating hours.

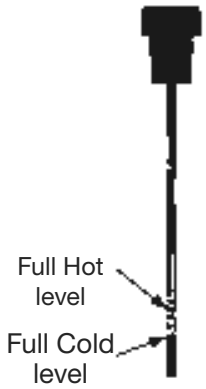
Pressure Filter
Replace in-line filter cartridge after every 500 operating hours.

Hydraulic oil
Perform the following work after every 100 operating hours:

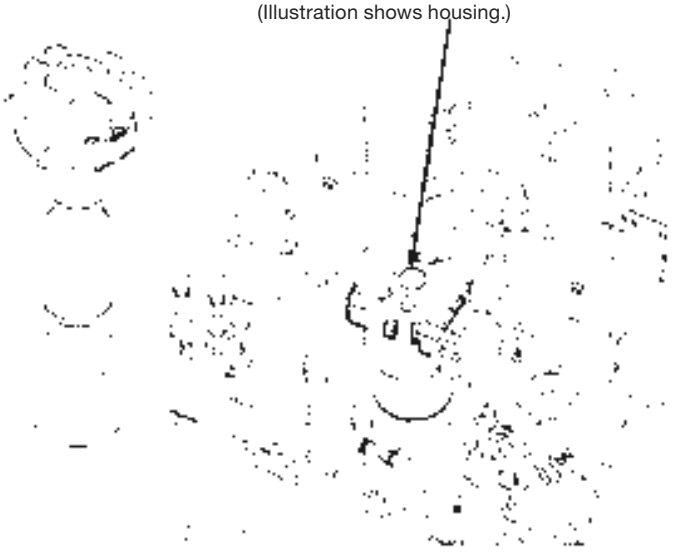
With arms down and oil cold, check hydraulic fluid level. The hydraulic oil should be visible at the full (cold level) mark on the hydraulic oil dipstick, when the oil is cold and all rams are in their closed position. Top up with applicable hydraulic oil if necessary (Refer the table on page 59).



Location of the filler breather dipstick



PRESSURE FILTER ELEMENT
Part Number **KS-100128**
(Illustration shows housing.)

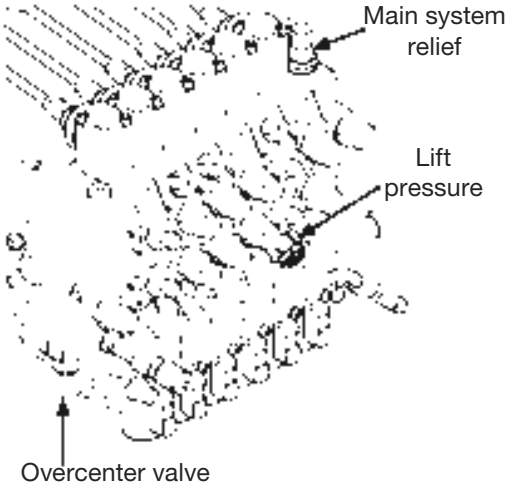


Service Tasks: Hydraulics (continued)

Hydraulic Pressure Settings
The hydraulic system has three pressure settings. These are referred to as the overcenter valve, the main system relief pressure, and the lift pressure.

Before any testing is carried out, run the engine and hydraulic system to warm the hydraulic oil. The oil cooler fan will engage at between 60°C and 65°C (~145°F).The pressure settings must be set as follows:

Note
All pressure settings are performed with the oil cooler fan on and engine running at full speed (3,600 rpm).

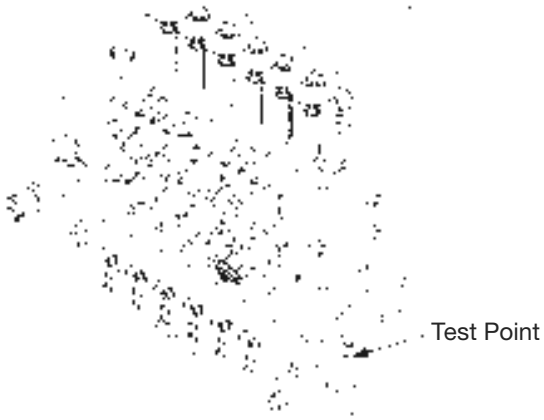


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1. **Overcenter Valve**

Connect an accurate pressure gauge with a range 0 – 300 bar (0 – 4300 PSI) to the test point. The pressure should be set at 34 – 41 bar (500 – 600 PSI) for the 11.3 cc pump.

If adjustment is required, slacken off the locknut. Using a 5mm hex key, wind the screw in to increase the pressure or out to reduce the pressure. Re-tighten the locknut when adjustments are complete.



2. **Main System Relief Pressure**

Connect an accurate pressure gauge with a range 0 – 300 bar (0 – 4300 PSI) to the test point. Check the pressure while pulling the tilt control lever at the end of the ram's stroke. The pressure should be set at **220 bar (3200 PSI)**.

If adjustment is necessary, slacken off the locknut on the main pressure relief valve. Wind the screw in to increase the pressure or back off the screw to reduce the pressure. Re-tighten the locknut when adjustments are complete.

3. **Lift Pressure**

Connect an accurate pressure gauge with a range 0 – 300 bar (0 – 4300 PSI) to the test point. With the boom fully raised, check the pressure while pulling the arm control lever at the end of the ram's stroke. The pressure should be set at **172 bar (2500 PSI)**.

If adjustment is necessary, unscrew the cap locknut on the lift pressure relief cartridge. Using an Allen key, wind the screw in to increase the pressure or back off the screw to reduce the pressure. Refit and tighten the locknut when adjustments are complete.

Hydraulic Fluid
Replace the hydraulic oil after every 1,000 operating hours, using applicable hydraulic oil (see table below).

OIL VISCOSITY	AMBIENT TEMPERATURE CELSIUS	AMBIENT TEMPERATURE FAHRENHEIT
ISO 46 A medium weight oil for mid-range conditions with local temperatures ranges	-4° to +21°C	+25° to +70°F
ISO 68 A heavier oil for warm weather conditions with local temperature ranges	+4° to +32°C	+40° to +90°F

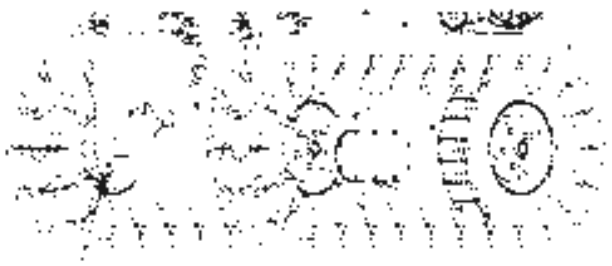
Hydraulic Oil
The viscosity of an oil is identified by its "ISO Viscosity Rating" The ISO viscosity rating can be found on the oil container's label.

The Kanga hydraulic system operates at a oil temperature between 60 - 80°C (140 - 176°F). Using a hydraulic oil that meets these requirements will help eliminate costly machine downtime and reduce the overall operating cost of your equipment. Failure to use the correct hydraulic oil could create problems and cost you time and money.

Kanga Recommends
For Australian conditions ISO 68
For colder American & European conditions ISO 46

IMPORTANT:
Check with your supplier before mixing hydraulic oils of different type, brand, or viscosity. Many oils are not compatible and damage to your hydraulic system could result. When changing oil viscosity, flush and clean the hydraulic system before adding new oil.

Hydraulic Oil Drain Plug
The hydraulic oil drain plug is situated at the front right hand side of the loader as shown below.



Plug

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Service Tasks: Trenching Valve

Description

The trenching valve is specially designed to convert the Kanga Loader paired with a trencher attachment into a high-performance trenching machine. The valve provides load sensing to ensure the trencher travel speed stays balanced with the trencher cutting speed, regardless of the ground conditions.

The trencher valve assembly comprises a group of cartridges forming a complex circuit. Servicing and repair to the trencher valve is usually restricted to cartridge element replacement.

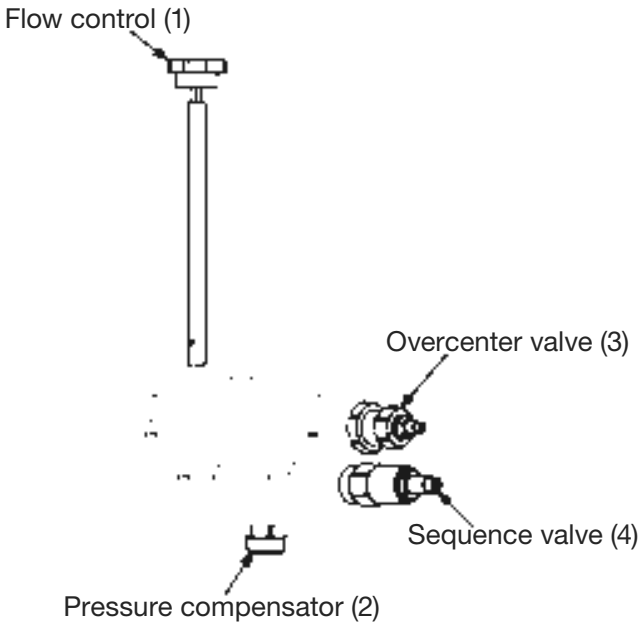
Circuit Description

When starting the trenching chain (AUX lever down), oil is flowing to VLV A port of the trencher valve. Priority oil flows through the flow control valve (1) and pressure compensator (2) to VLV B port and back to the main control valve for use by the drive motors. Trenching travel speed is adjusted by the flow control valve (1), with speed being constant regardless of trenching and travel loads. Once the priority flow requirements are satisfied, excess flow is permitted to flow through the pressure compensator (2) to the A port and to the trencher motor.

Note
If the flow control valve (1) is fully closed, all flow is directed to the trencher motor and no oil can flow to the drive motors; no regulating occurs.

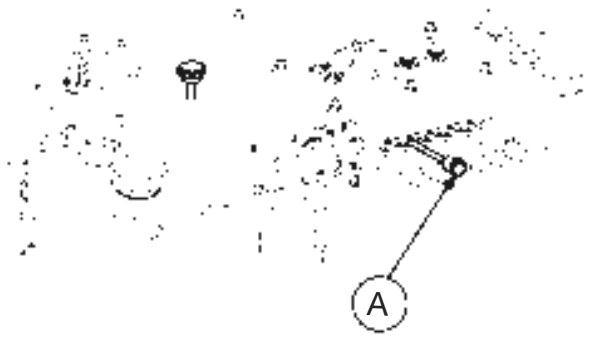
Return oil from the trencher motor flows through the C port and the overcenter valve (3) to the tank (T) port.

In the event of excessively hard trenching with the drive motor driving against the trenching chain, the drive circuit pressure will rise above the setting of the sequence valve (4) and oil will be diverted to the tank. In this condition, a constant load is held against the trenching chain by the drive motors. When reversing the trencher chain (AUX lever up), for example, to clear the chain from rocks or wood, oil flow is directed to port VLV B. System pressure will rise to the setting of the sequence valve (4) and flow will then be diverted to port C, reversing the trencher motor.



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Service Tasks: Trenching Valve (continued)



Pressure Settings
Before adjusting any part of the trencher valve, check all main pressure settings as outlined in the "Service Tasks: Hydraulics" section of the Operator's Manual.

With the same setup as outlined there—hydraulic oil warmed up, pressure gauge (0 – 300 bar/0 – 3400 PSI) plugged into test point, engine running at full speed (3600 rpm)—complete the following steps:

1. **Overcenter Valve (3) Setting**

Flow Control Valve (1) fully closed (turned clockwise).

AUX Lever (Lever-3 in local mode) on main control valve down (trencher chain running forward).

The pressure should be set at 69 – 76 bar (1000 – 1100 PSI) on all models.

2. **Sequence Valve (4) Setting**

Flow Control Valve (1) fully closed (turned clockwise).

AUX Lever (Lever-3) on main control valve up (trencher chain running backwards).

The pressure should be set at 186 bar (2700 PSI) on mid-range gasoline models and 186 bar (2700 PSI) on mid-range diesel models.

3. **Checking Trenching Valve Function**

With the trencher above ground and the chain running forward and AUX Lever (Lever-3) down, pull both drive levers backward to reverse the loader. Begin opening Flow Control valve (1) slowly.

The loader should start moving backwards.

The more the valve is opened, the faster the loader should move.

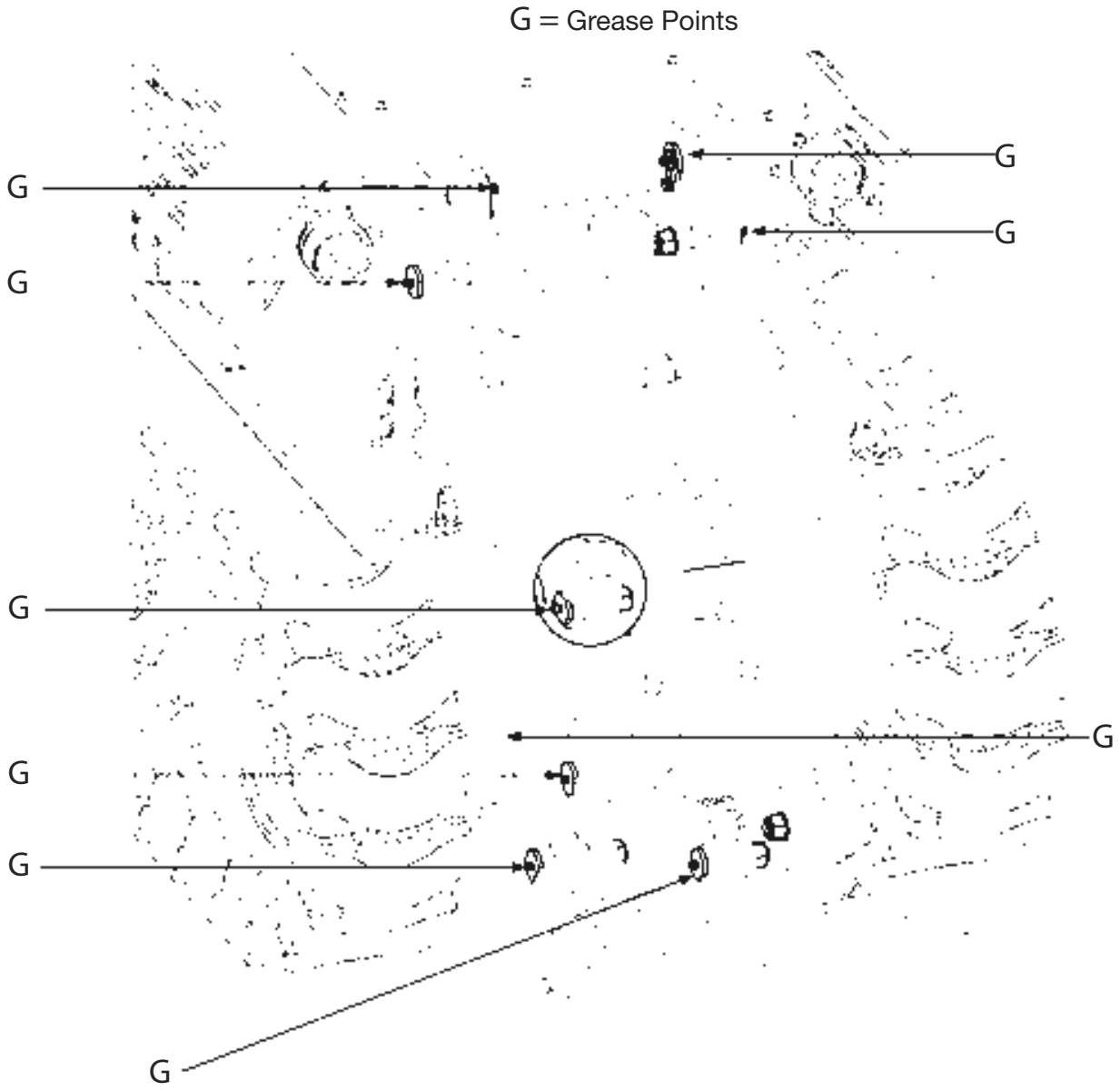
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Service Tasks: Grease Nipples

Grease
After every 9-10 operating hours, grease each of the 14 linkage pins, using an appropriate grease (multi-purpose pin grease). During greasing, also inspect for wear.

⚠ CAUTION

The frequency of re-greasing depends on the workload and the severity of the working conditions. Re-greasing during the day of operation may be necessary.



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Service Tasks: Grease Nipples (continued)



Service Tasks: Visual Inspection

Check all over machine for loose bolts, cracks, and dents after every 100 operating hours. Tighten loose bolts, and replace if worn or damaged.

Service Tasks: Radiator (Diesel Engine)

Radiator hoses and connections should be checked on a regular basis for cracks and wear.

Check the radiator for leaks.

Change the radiator fluid every two years with a coolant to water ratio of 50:50.

Check the fan belt for wear and replace as required.



⚠ CAUTION

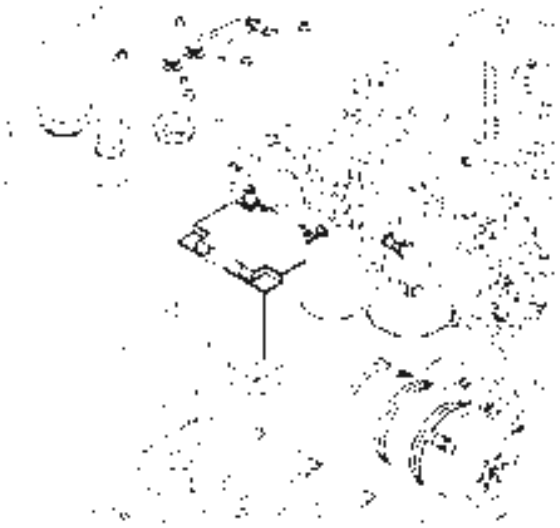
Do not remove radiator cap when hot.

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Service Tasks: Battery

The battery provided with your loader is maintenance-free and may include an indicator at the top of the battery displays its condition according to a displayed colour. Ensure that the terminals are tight and that covers and battery leads are not damaged.

The hand-held remote controller is powered by a removable battery and has it's own charger. A spare battery is provided for convenience as well as a 12 v lead for the charger that can be charged from the loader when stationary.





⚠ WARNING

The 12V battery contains caustic liquid that may result in chemical burns to flesh and materials.

Service Tasks: Pivot Pins

Bottom Pivot Pins

Before each use, visually inspect all pivot pins for signs of wear, damage, or failure. At every 200 operating hours, thoroughly inspect all pivot pins and bushes for wear and damage. Please refer to Service Task-Grease Nipples.



REPLACEMENT PARTS

LEVER ARM PIN (x2) - Part Number **DL-000516**

GREASE NIPPLE (Pin Kits) - Part Number **FA-000526**

PIN C (60MM) KIT (x 1) - Part Number **0K10900**

PIN E (96MM) KIT (x 2) - Part Number **0K10901**

PIN F (39MM) KIT (x 2) - Part Number **0K10902**

PIN G (65MM) KIT (x 1) - Part Number **0K10903**

PIN H (84MM) KIT (x 2) - Part Number **0K10903**

HARDENED BUSH IRB 1610 (x 2)
Part Number **DL-000222**

TOP BUSH IRB 1616 (x 6)
Part Number **DL-000158**

HARDENED BUSH IRB168 (x 4)
Part Number **DL-000448**

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Service Tasks: Tyres and Tyre Pressure

Visually check tyres on a daily basis. Check tyre pressure every 50 operating hours, and check for wear and damage to tyres and tracks.

Tyre pressure must be maintained to the following specifications:

KANGA LOADER TYRE PRESSURE GROSS

Model	Tyre	Size	Recommended Pressure		Gross weight with Water Filled (Kg)	Gross weight with Water Filled (lbs)
			KPA	PSI		
WR825	Lug 23"	23 X 8.5 X 12	220	32	35	77
	Turf 23"	23 X 10.5 X 12	150	22	35	77
TR825	Tracked Tyre 20"	5.00 X 10 - 8PR	379 - 517	55 - 75	N/A	N/A

REPLACEMENT PARTS

Tyre 23" X 8.5 X 12 LUG TRELLEBORG
Part Number **DL-000624**

Tyre 23" TURF KENDA 23 X 10.5 X 12
Part Number **DL-001502**

Tyre TRACK DRIVE 20" 5.00 X 10 - 8PR
Part Number **DL-002913**

TUBELESS VAL 10-12 RIM
Part Number **DL-000995**

12 X 7" RIM COMPLETE
Part Number **DL-004014-BL**

10 X 3" RIM COMPLETE
Part Number **DL-000469-BL**

NUTS WHEEL 7/16" UNF
Part Number **FA-000530**

STUD WHL 7/16" KNOCK-IN
Part Number **FA-000490**



⚠ CAUTION

Maintain correct tyre pressure for all loader tyres.

Note
For wheeled loaders, fill the tyre with water until the total weight reaches 35 kg, then inflate with air to the recommended pressure.

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Service Intervals and Records

MAINTENANCE INTERVAL	TYPE		MIN	INT	MIN	INT	MAJ	INT	MIN	INT	MIN	MAJ	MIN	INT	MIN	INT	MAJ
	HOURS	20	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
ENGINE OIL			R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ENGINE OIL FILTER			R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
AIR FILTER ELEMENT *		I	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
FUEL FILTERS *		I	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
IDLE ENGINE SPEED		I		A		A		A		A		A		A		A	
VALVE CLEARANCE										A							
FAN BELT		I	I	I	I	I	R	I	I	I	I	R	I	I	I	I	R
HYDRAULIC HOSE/TUBE		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
HYDRAULIC FLUID		I	I	I	I	I	I	I	I	I	I	R	I	I	I	I	I
HYDRAULIC RETURN FILTER				R		R		R		R		R		R		R	
HYDRAULIC PRESSURE FILTER		I	I	I	I	I	R	I	I	I	I	R	I	I	I	I	R

DAILY	ITEMS TO BE CHECKED ON A DAILY BASIS																
	HOURS	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
PRE-CLEANER FOAM *		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
VISUAL CHECK (CRACKS, WEAR)		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
RADIATOR COOLANT LEVEL		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
GREASE NIPPLES/PINS		L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L

TYRES/TYRE PRESSURE	ITEMS TO BE CHECKED AT REGULAR INTERVALS																
	HOURS	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
TYRES		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
TYRE PRESSURE		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I

Key

R	Replace
C	Clean as required
L	Lubricate as necessary
A	Adjust as necessary
I	Inspect, fill up, tighten, or replace as necessary

* Service may be required at more regular intervals if working in dusty conditions.

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MAINTENANCE SCHEDULE

MODEL	MINOR SERVICE	INTERMEDIATE SERVICE	MINOR SERVICE	INTERMEDIATE SERVICE	MINOR SERVICE	MAJOR SERVICE
	100Hr	200Hr	300Hr	400Hr	500Hr	
Mid Range	DATE	DATE	DATE	DATE	DATE	DATE
	SERVICE STAMP	SERVICE STAMP	SERVICE STAMP	SERVICE STAMP	SERVICE STAMP	SERVICE STAMP

MODEL	INTERMEDIATE SERVICE	MINOR SERVICE	INTERMEDIATE SERVICE	MINOR SERVICE	MAJOR SERVICE *
	600Hr	700Hr	800Hr	900Hr	1000Hr
Mid Range	DATE	DATE	DATE	DATE	DATE
	SERVICE STAMP	SERVICE STAMP	SERVICE STAMP	SERVICE STAMP	SERVICE STAMP

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MAINTENANCE SCHEDULE (Continued)

MODEL	MINOR SERVICE	INTERMEDIATE SERVICE	MINOR SERVICE	INTERMEDIATE SERVICE	MAJOR SERVICE
	1100Hr	1200Hr	1300Hr	1400Hr	1500Hr
Mid Range	DATE	DATE	DATE	DATE	DATE
	SERVICE STAMP	SERVICE STAMP	SERVICE STAMP	SERVICE STAMP	SERVICE STAMP
MODEL	INTERMEDIATE SERVICE	MINOR SERVICE	INTERMEDIATE SERVICE	MINOR SERVICE	MAJOR SERVICE *
	1600Hr	1700Hr	1800Hr	1900Hr	2000Hr
Mid Range	DATE	DATE	DATE	DATE	DATE
	SERVICE STAMP	SERVICE STAMP	SERVICE STAMP	SERVICE STAMP	SERVICE STAMP

Note The warranty on the equipment is subject to the periodic maintenance being carried out at the intervals specified. If a service provider other than Kanga Loaders is used, maintenance records from the trade-qualified provider may be required to support any claim.

Only genuine Kanga spare parts should be used during servicing.

* Denotes hydraulic oil and pressure filter require changing for 1000Hr services.

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Troubleshooting Guide

This section contains troubleshooting information to be used for locating and correcting problems which may develop with your Kanga Loader. Troubleshooting and maintenance information relating to the engine are contained in the engine manual.

Arms

TROUBLE	PROBABLE CAUSE	REMEDY
Arm will not rise.	Load capacity exceeded.	Reduce load. Load should not exceed the specified Rated Operating Capacity (ROC).
	Hydraulic system oil level low.	Check oil and replenish as necessary. Oil level should not change. Leaks may be present.
	Damaged or blocked hydraulic line.	Remove line and remove any obstructions or replace line as necessary.
	Malfunctioning hydraulic pump.	Replace hydraulic pump as necessary.
	Worn control valve spool.	Check pressure delivery from control valve. Contact service agent.
	Lift control valve relief set too low, allowing oil to return to reservoir.	Adjust relief valve to proper setting. Contact service agent.
	Excessive oil leak past lift cylinder piston seal.	Repair or replace cylinder as necessary.
Arm will not lower.	Hydraulic oil system low.	Check oil and replenish as necessary. Oil level should not change. Leaks may be present.
	Damaged or blocked hydraulic line.	Remove line and remove any obstructions or replace line as necessary.
	Malfunctioning pump.	Replace hydraulic pump as necessary.
	Worn control valve spool.	Check pressure delivery from control valve. Contact service agent.
	Control rod or lever broken or disconnected.	Repair or replace control rod or lever.
Arm lowers with control lever in neutral.	Worn control valve spool.	Repair or replace valve as required.
	Lift ram piston seal leaking.	Replace seals.
Arm will not rise, or rises slowly.	Lift control valve relief set too low allowing oil to return to reservoir.	Adjust relief valve to proper setting. Contact service agent.
	Worn control valve spool.	Check pressure delivery from control valve. Contact service agent.
	Excessive oil leak past lift cylinder piston seal.	Repair or replace cylinder as necessary.
	Control rod or lever broken or disconnected	Repair or replace control rod or lever.
	Hydraulic lines incorrectly connected at control valve.	Correctly connect line at control valve.

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Arms (continued)

TROUBLE	PROBABLE CAUSE	REMEDY
Arm rises and lowers erratically.	Lift control valve relief set too low, allowing oil to return to reservoir.	Adjust relief valve to proper setting.
	Hydraulic system oil low.	Check oil and replenish as necessary. Oil level should not change. Leaks may be present.
	Damaged or blocked line.	Remove line and remove any obstructions or replace line as necessary.
	Malfunctioning pump.	Repair or replace hydraulic pump as necessary.
	Worn control valve spool.	Check pressure delivery from control valve. Repair or replace valve as required.
	Excessive oil leak past lift cylinder piston seal.	Repair or replace cylinder as necessary.
	Arm pivot pin seized or otherwise damaged.	Replace pivot pin and bushing as necessary. Grease thoroughly.

Hydraulic Pump

TROUBLE	PROBABLE CAUSE	REMEDY
Flow from hydraulic pump erratic or non-existent.	Hydraulic system oil low.	Check oil and replenish as necessary. Oil level should not change. Leaks may be present.
	Damaged or blocked line.	Remove line and remove any obstructions or replace line as necessary.
	Worn or chipped pump gears.	Replace pump gears as necessary.
	Worn or broken drive shaft or coupling.	Inspect drive shaft or coupling. Repair or replace as necessary.
Hydraulic pump noisy.	Air in hydraulic system.	Check suction side or hydraulic system for defects and repair as necessary. Ensure no leaks exist in the suction line.
	Hydraulic system oil low.	Check oil and replenish as necessary. Oil level should not change. Leaks may be present.
	Worn or broken drive shaft or coupling.	Inspect drive shaft or coupling. Repair or replace as necessary.
	Worn or chipped pump gears.	Replace pump gears as necessary.

Drive System

TROUBLE	PROBABLE CAUSE	REMEDY
Machine will not drive forward or backward.	Hydraulic system oil low.	Check oil and replenish as necessary. Oil level should not change. Leaks may be present.
	Worn control valve spool.	Check pressure delivery from control valve. Repair or replace valve as required.
	Damaged or blocked line.	Remove line and remove any obstructions or replace line as necessary.
	Control rod or lever broken or disconnected.	Repair or replace control rod or lever.
	Hydraulic lines incorrectly connected at control valve.	Correctly connect line at control valve.
	Malfunctioning pump.	Repair or replace pump.

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Drive System (continued)

TROUBLE	PROBABLE CAUSE	REMEDY
Machine drive speed is erratic.	Hydraulic system oil low.	Check oil and replenish as necessary. Oil level should not change. Leaks may be present.
	Damaged or blocked line.	Remove line and remove any obstructions or replace line as necessary.
	Binding drive motor(s).	Repair or replace motor(s) as necessary.
	Relief valve setting.	Adjust relief valve.

Auxiliary Hydraulic

TROUBLE	PROBABLE CAUSE	REMEDY
Attachment is slow or will not function.	Hydraulic system oil low.	Check oil and replenish as necessary. Oil level should not change. Leaks may be present.
	Damaged or blocked line.	Remove line and remove any obstructions or replace line as necessary.
	Malfunctioning pump.	Replace hydraulic pump as necessary.
	Worn control valve spool.	Check pressure delivery from control valve. Repair or replace valve as required.
	Attachment plate pivot pin seized or otherwise damaged.	Replace pivot pin and bushing as necessary. Grease thoroughly.
	Excessive oil leak past cylinder piston seal or motor rotating group.	Repair or replace cylinder motor as necessary.
	Control rod or lever broken or disconnected.	Repair or replace control rod or lever.

Engine

TROUBLE	PROBABLE CAUSE	REMEDY
Engine will not crank over.	Low battery output.	Recharge or replace battery.
	Loose, disconnected or broken battery cables.	Inspect cable(s) and tighten all connections. Repair or replace cables as necessary.
	Faulty starter.	Repair or replace starter.
	Faulty circuit wiring.	Check wiring continuity.
Engine cranks but does not fire.	No fuel in tank.	Refill fuel tank.
	Spark plug fouled (gasoline engines).	Check spark plug gap and clean or replace spark plug.
	Dirty fuel filter.	Clean filter.
	Carburettor flood (gasoline engines).	Clear carburettor.
	Fuel valve closed.	Open valve.
Engine runs but stalls.	Fuel valve closed.	Open valve.
	Low battery output.	Recharge or replace battery.
	Power take-off engaged.	Shift power take-off lever into neutral.

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Radio System

TROUBLE	PROBABLE CAUSE	REMEDY
Attachment is slow or will not function.	Low battery in transmitter.	Replace battery with freshly charged unit.
	Emergency stop on loader or transmitter engaged.	Release emergency stop buttons.
	No power to receiver box. Check power light is Illuminated on receiver box.	Ensure the battery isolator switch is on and the battery is fully charged. Check F2 fuse in receiver unit it not blow, replace if required, check F3 in power distribution is not blown.
	Head lights, AUX 2 or Fast mode is selected.	Check the disengaged switches.
	Low engine oil.	Check engine oil level.
	Engine over temperature.	Check engine coolant.
	Poor connection in the 23 pin plug.	Disconnect plug and check connections.
	Machine shut down when driving.	Emergency stop has been activated.
	Low battery in transmitter check for LED on transmitter.	Replace battery in transmitter with new one.
	Low engine oil.	Check oil level.
	Engine over temperature.	Check engine coolant.
	Poor connections in 23 pin plug.	Disconnect plug and check connections.

Remote Control

TROUBLE	PROBABLE CAUSE	REMEDY
The green LED does not switch on when the START push button is pressed, even though both the battery and the S-Key are inserted.	The battery is flat.	Replace the battery with a charged on.
The green LED blinks fast.	No radio link.	Bring the transmitting unit close to the receiving unit.
The red LED switches on for 2 seconds and then the unit switches off.	The transmitting unit does not work correctly.	Contact the support service of the machine manufacturer.
The red LED blinks once during start up.	The STOP push button is locked or damaged.	Unlock the STOP push button. If this signal persists, contact the support service of the machine manufacturer.
The red LED blinks twice during start up.	At least one of the actuators corresponding to commands D2-D20 is activated or damaged.	Bring the actuators to the rest position. If this signal persists, contact the support service of the machine manufacturer.
The red LED blinks three times during start up.	The battery is flat.	Replace the battery with a charged one.
The red LED blinks four times during start up.	At least one of the actuators corresponding to commands A1-A8 and H1-H8 is activated or damaged.	Bring the actuators to the rest position. If this signal persists, contact the support service of the machine manufacturer.
The power LED is off.	The receiving unit is switched off.	Make sure the fuse F2 is intact. Correctly plug in the connecting plug and power on the receiver unit.
The power LED is on.	No radio link.	Bring the transmitting unit closer to the receiving unit.

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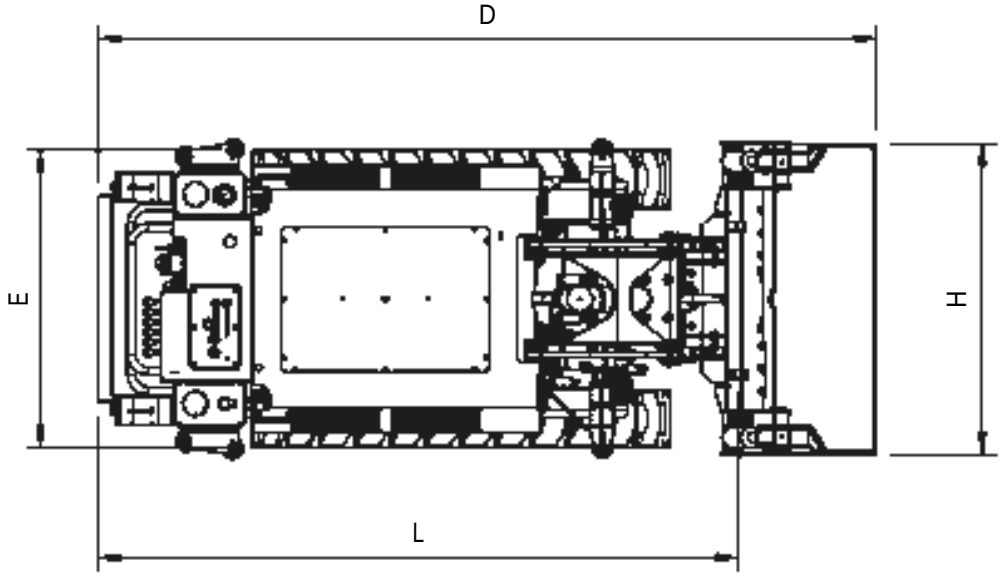
Remote Control (continued)

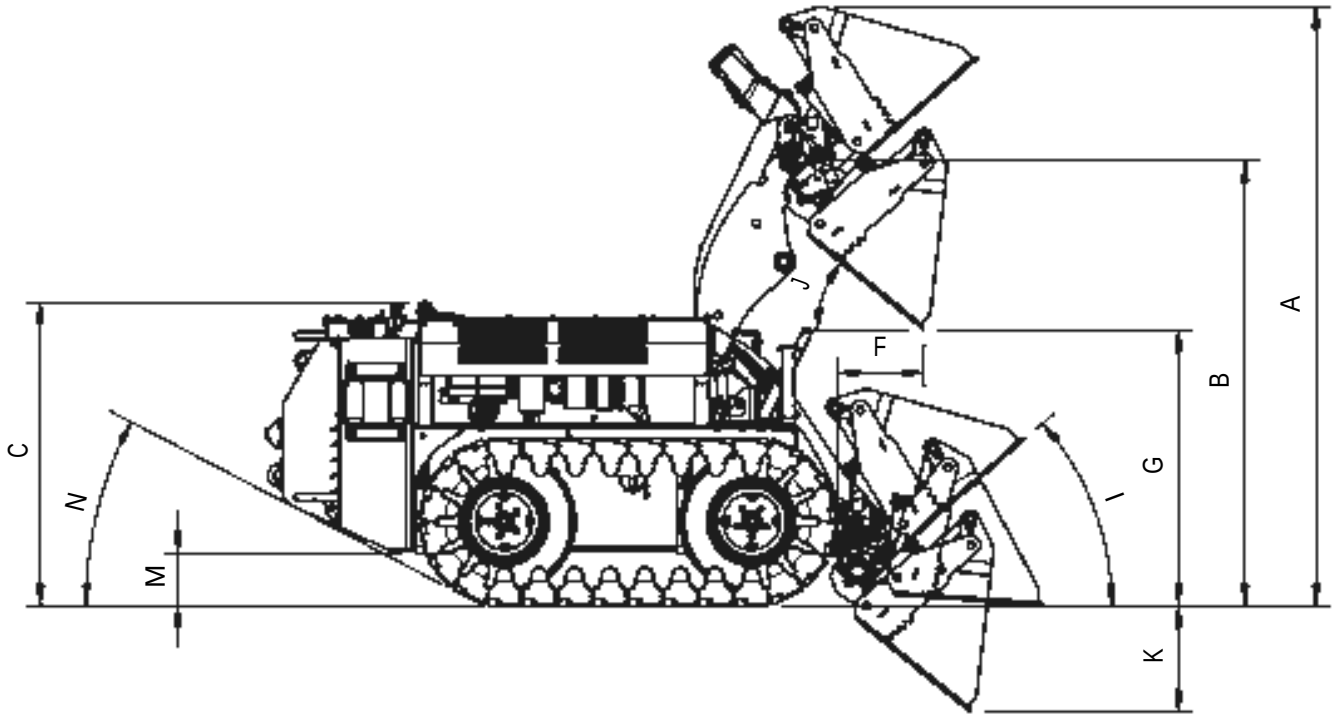
TROUBLE	PROBABLE CAUSE	REMEDY
The alarm LED blinks once.	Error on the STOP outputs.	Make sure that the fuses F3 and F4 are intact. Correctly plug in the connecting plug. Make sure that the STOP outputs are wired correctly.
The alarm LED blinks twice.	Error on the SAFETY outputs.	Make sure that the fuses F1 and F5 are intact. Correctly plug in the connecting plug. Make sure that the SAFETY outputs are wired correctly.
The alarm LED blinks three times.	Error on the outputs of direction commands.	Contact the support service of the machine manufacturer. Make sure that the outputs of direction commands are wired correctly.
The alarm LED is on.	The receiving unit does not work correctly.	Contact the support service of the machine manufacturer.
The status LED blinks slowly.	Over-voltage on power supply.	Make sure that the receiving unit power supply is within the voltage limits provided in the technical data.
The status LED blinks fast and irregularly.	The receiving unit loses data sent by the transmitting unit.	Bring the transmitting unit closer to the receiving unit. Contact the support service of the machine manufacturer.
The status LED is on.	Over-current in one of the PWM analogue outputs.	Contact the support service of the machine manufacturer.
The run LED blinks.	The receiving unit does not send commands in the CAN network.	
The ERR LED blinks.	CAN communication error.	
The setup LED blinks once.	Error on the address key.	
The setup LED blinks twice.	Error on the data memory.	Replace the data memory on the DTK connector with the backup data memory attached inside the cover.
The SETUP LED blinks slowly.	A data memory is connected to the BKK connector.	If you are not performing a backup of the data memory, removed the memory from the BKK connector.

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Loader Specifications and Decals

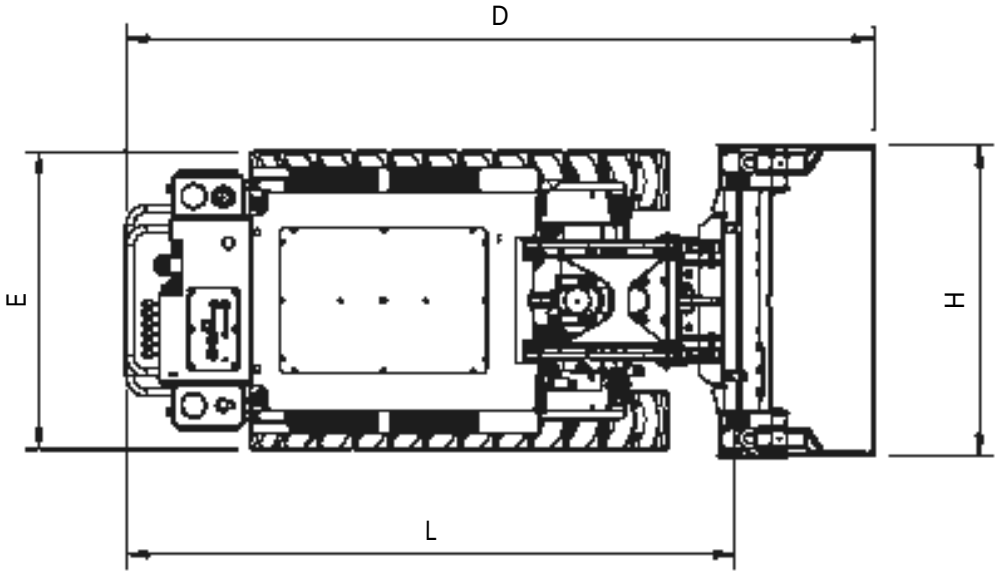
Radio Controlled Loader With Tracks and Counter Weights

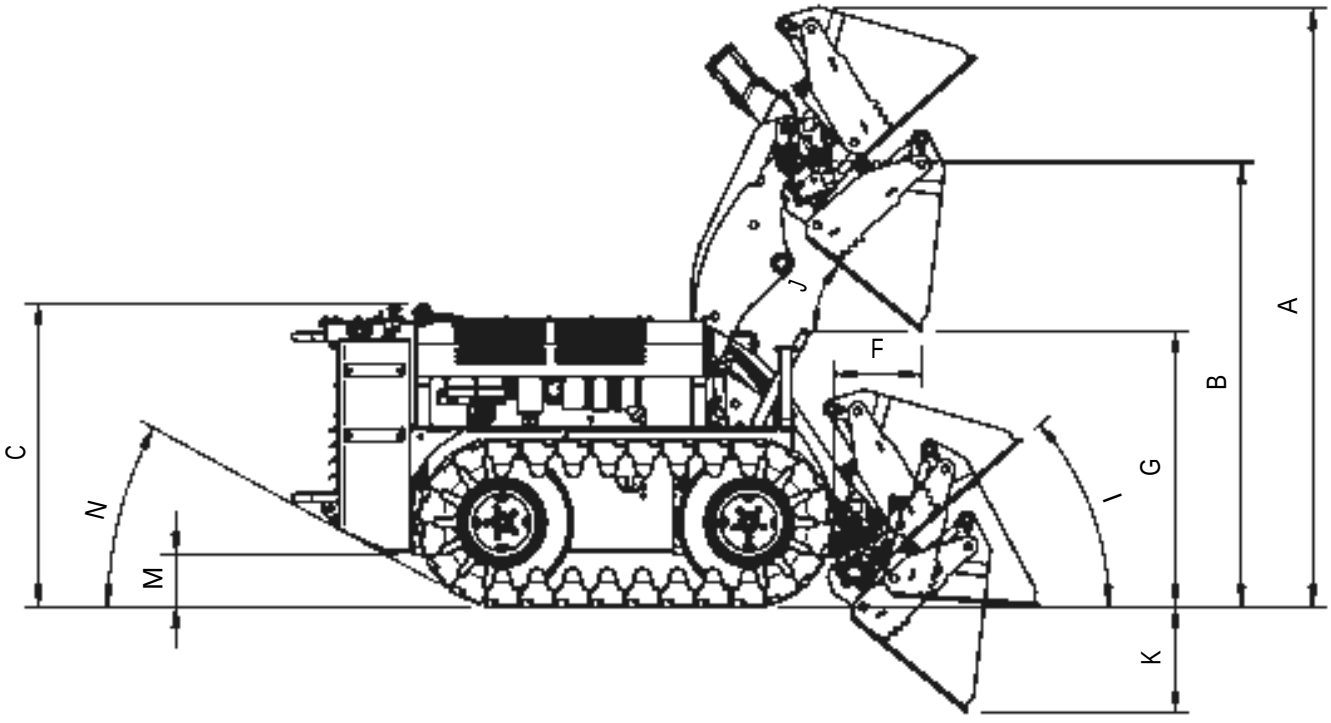




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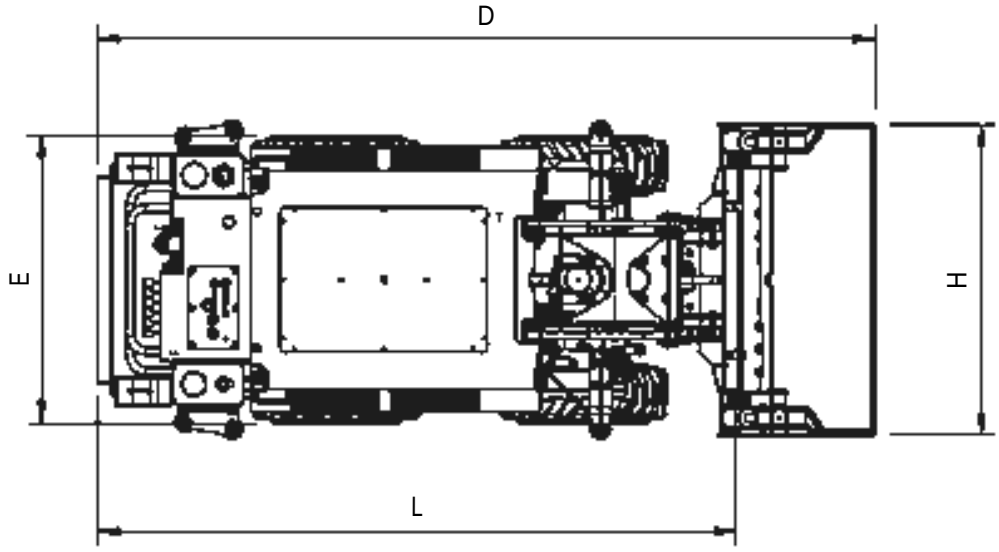
Radio Controlled Loader With Tracks and No Counter Weights

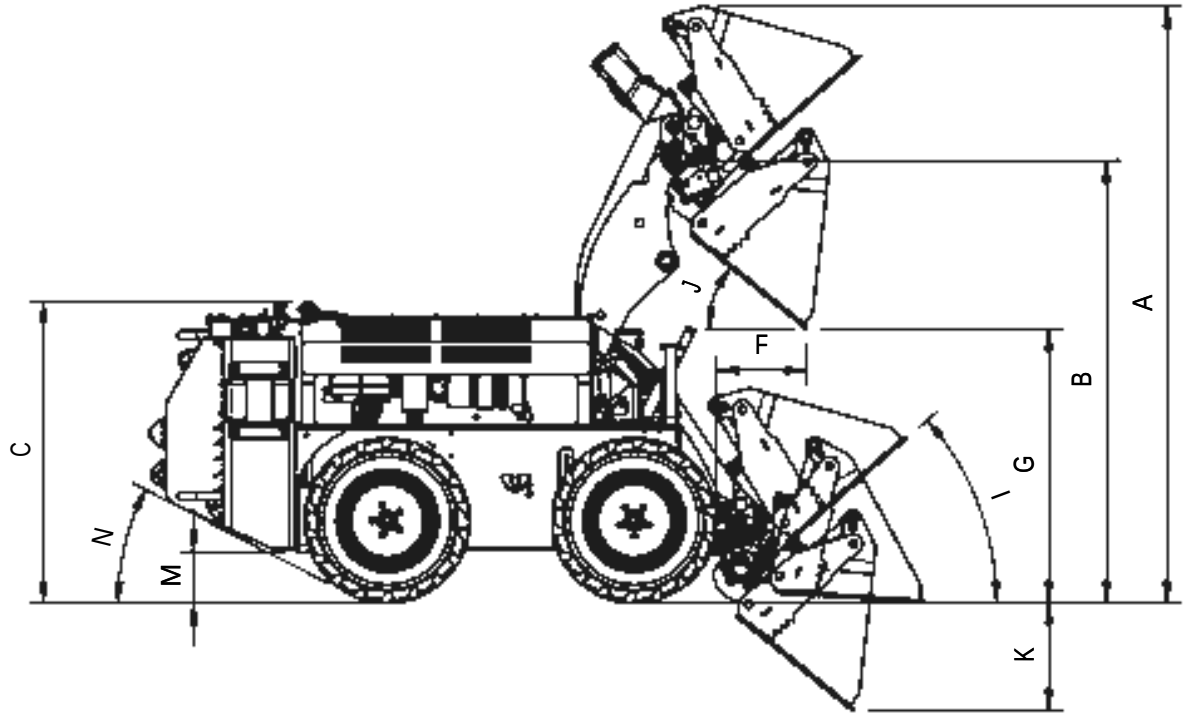




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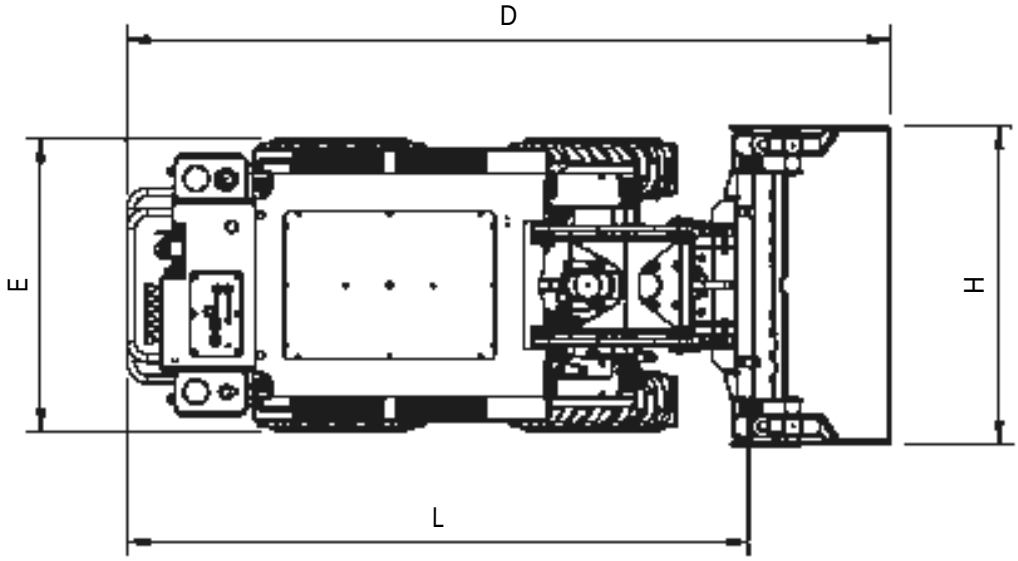
Radio Controlled Loader With Wheels and Counter Weights

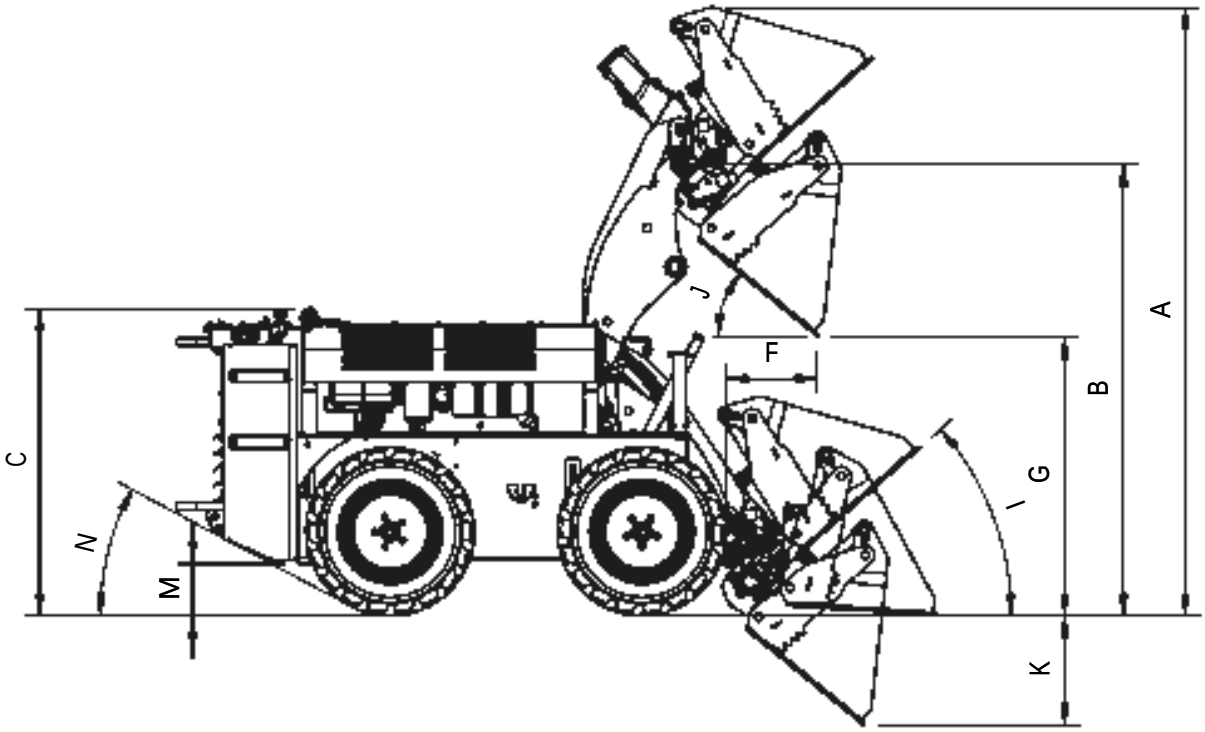




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Radio Controlled Loader With Wheels and No Counter Weights





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Specifications: Radio Controlled Loader With Tracks

PERFORMANCE	TR825 (With Counter Weights)		TR825 (Without Counter Weights)	
Tipping Load[1] (No Bucket)	848 kg	1865 lb	603 kg	1329 lb
Tipping Load[1] (62kg Kanga GP bucket)	786 kg	1728 lb	541 kg	1190 lb
Tipping Load[1] (84kg Kanga HD GP bucket)	764 kg	1680 lb	519 kg	1141 lb
Tipping Load[1] (157kg Kanga 4in 1 GP bucket)	691 kg	1519 lb	446 kg	981 lb
Rated Operating Capacity (ROC)[1] (No bucket)	381 kg	893 lb	270 kg	595 lbs
Maximum Travel Speed (Default Mode)	5.4 km/h	3.4 m/h	5.4 km/h	3.4 m/h
Maximum Travel Speed (Fast Mode)	9.3 km/h	5.8 m/h	9.3 km/h	5.8 m/h
Fuel Capacity (Diesel)	38 L	10 gal	38 L	10 gal
Loader Mass [2]	1305 kg	2877 lb	1130 kg	2491 lb
ENGINE				
Manufacturer	Kubota D902			
Rated Power[3]	17.5 KW	23.5 HP	17.5KW	23.5hp
DRIVE SYSTEM				
Drive Control	Soft Touch Hand Levers		Soft Touch Hand Levers	
Throttle Control	Remote		Remote	
Tracks/Wheels with Direct Drive Hydraulic Motor	Tracks			
HYDRAULICS				
Gear Pump Displacement	11.3 cc/rev	0.69 cu in/rev	11.3 cc/rev	0.69 cu in/rev
Pump Output	40.6 L/min	10.73 US gal/min	40.6 L/min	10.73 US gal/min
System Pressure	220 bar	3200 PSI	220 bar	3200 PSI
Hydraulic Reservoir Capacity	80 L	21.1 US gal	80 L	21.1 US gal
BUCKETS				
GP Bucket Capacity (heaped / struck)[4]	0.12 m^3 / 0.09 m^3	4.24 cu ft / 3.21 cu ft	0.12 m^3 / 0.09 m^3	4.24 cu ft / 3.21 cu ft
HD 4-in-1 Bucket Capacity (heaped / struck) [4]	0.13 m^3 / 0.095 m^3	4.59 cu ft / 3.36 cu ft	0.13 m^3 / 0.095 m^3	4.59 cu ft / 3.36 cu ft
DIMENSIONS				
A Max Operating Height with 4in1 1100 HD Bucket	2102 mm	82.8"	2102 mm	82.8"
B Height to Hinge Pin	1561 mm	64.45"	1561 mm	61.45"
C Overall Height (No Warning Lights)	1066 mm	41.97"	1061 mm	41.77"
D Overall Length With 4in1 1100 HD Bucket	2726 mm	107.32"	2624 mm	103.30"
E Overall Track or Wheel Width	1046 mm	41.18"	1046 mm	41.18"
F Bucket Reach at 40° (4in1 1100 HD Bucket)	309 mm	11.97"	309 mm	11.97"
G Dump Height (4in1 1100 HD Bucket)	967 mm	38.07"	967 mm	38.07"
H Bucket Width (4in1 1100 HD Bucket)	1090 mm	42.91"	1090 mm	42.91"
I Bucket Max Roll Back	42°		42°	
J Bucket Max Dump Angle	39°		39°	
K Ground Penetration (4in1 1100 HD Bucket)	374 mm	14.72"	374 mm	14.72"
L Overall Length Less Bucket	2241 mm		2138 mm	84.17"
M Ground Clearance	184 mm	7.24"	184 mm	7.24"
N Angle of Departure	28°		29°	
Approach Angle With No Bucket	90°		90°	
Approach Angle With Bucket Rolled back	25.7°		25.7°	

1. Tipping load and Rated Operating Capacity (ROC) have been determined to ISO 14397-1. Refer to the section of the Operators Manual "Practice Safety at All Times" for Tipping Load and ROC values for the range of Kanga bucket and fork attachments. Note that ROC is 50% of the Tipping Load for wheel loaders and 45% for Kanga "over tire track" loaders.

2. Loader mass is the mass of the loader and fluids only. Specifically, this is the operating mass without the operator or bucket mass.

3. Power Rating is the net power of the production engine only as measured in accordance with SAE J 1349 at 3600 RPM. Mass production engines vary from this value. Actual power output for the engine installed in the delivered machine may vary depending on numerous factors. These factors can include operation speed of the engine in the application, environmental conditions, and other variables.

4. Volumes based on ISO 7546:1983.

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Specifications: Radio Controlled Loader With Wheels

PERFORMANCE	WR825 (With Counter Weights)		WR825 (Without Counter Weights)	
Tipping Load[1] (No Bucket)	807 kg	1776 lb	564 kg	1240 lb
Tipping Load[1] (62kg Kanga GP bucket)	745 kg	1639 lb	502 kg	1104 lb
Tipping Load[1] (84kg Kanga HD GP bucket)	723 kg	1591 lb	480 kg	1056 lb
Tipping Load[1] (157kg Kanga 4in 1 GP bucket)	650 kg	1430 lb	407 kg	895 lb
Rated Operating Capacity (ROC)[1] (No bucket)	404 kg	888 lb	282 kg	620 lb
Maximum Travel Speed (Default Mode)	7 km/h	4.35 m/h	7 km/h	4.35 m/h
Maximum Travel Speed (Fast Mode)	N/A	N/A	N/A	N/A
Fuel Capacity (Diesel)	38 L	10 gal	38 L	10 gal
Loader Mass [2]	1205 kg	2657 lb	1030 kg	2271 lb
ENGINE				
Manufacturer	Kubota D902			
Rated Power[3]	17.5 KW	23.5 HP	17.5KW	23.5hp
DRIVE SYSTEM				
Drive Control	Soft Touch Hand Levers		Soft Touch Hand Levers	
Throttle Control	Remote		Remote	
Tracks/Wheels with Direct Drive Hydraulic Motor	Wheels			
HYDRAULICS				
Gear Pump Displacement	11.3 cc/rev	0.69 cu in/rev	11.3 cc/rev	0.69 cu in/rev
Pump Output	40.6 L/min	10.73 US gal/min	40.6 L/min	10.73 US gal/min
System Pressure	220 bar	3200 PSI	220 bar	3200 PSI
Hydraulic Reservoir Capacity	80 L	21.1 US gal	80 L	21.1 US gal
BUCKETS				
GP Bucket Capacity (heaped / struck)[4]	0.12 m^3 / 0.09 m^3	4.24 cu ft / 3.21 cu ft	0.12 m^3 / 0.09 m^3	4.24 cu ft / 3.21 cu ft
HD 4-in-1 Bucket Capacity (heaped / struck) [4]	0.13 m^3 / 0.095 m^3	4.59 cu ft / 3.36 cu ft	0.13 m^3 / 0.095 m^3	4.59 cu ft / 3.36 cu ft
DIMENSIONS				
A Max Operating Height with 4in1 1100 HD Bucket	2097 mm	82.6"	2097 mm	82.6"
B Height to Hinge Pin	1556 mm	61.25"	1556 mm	61.25"
C Overall Height (No Warning Lights)	1061 mm	41.77"	1061 mm	41.77"
D Overall Length With 4in1 1100 HD Bucket	2727 mm	107.36"	2626 mm	103.39"
E Overall Track or Wheel Width	1008 mm	39.69"	1008 mm	39.69"
F Bucket Reach at 40° (4in1 1100 HD Bucket)	314 mm	12.36"	314 mm	12.36"
G Dump Height (4in1 1100 HD Bucket)	962 mm	37.87"	962 mm	37.87"
H Bucket Width (4in1 1100 HD Bucket)	1090 mm	42.91"	1090 mm	42.91"
I Bucket Max Roll Back	42°		42°	
J Bucket Max Dump Angle	39°		39°	
K Ground Penetration (4in1 1100 HD Bucket)	379 mm	14.92"	379 mm	14.92"
L Overall Length Less Bucket	2240 mm	88.19"	2138 mm	84.17"
M Ground Clearance	179 mm	7.05"	179 mm	7.05"
N Angle of Departure	27°		28°	
Approach Angle With No Bucket	90°		90°	
Approach Angle With Bucket Rolled back	25°		25°	

1. Tipping load and Rated Operating Capacity (ROC) have been determined to ISO 14397-1. Refer to the section of the Operators Manual "Practice Safety at All Times" for Tipping Load and ROC values for the range of Kanga bucket and fork attachments. Note that ROC is 50% of the Tipping Load for wheel loaders and 45% for Kanga "over tire track" loaders.

2. Loader mass is the mass of the loader and fluids only. Specifically, this is the operating mass without the operator or bucket mass.

3. Power Rating is the net power of the production engine only as measured in accordance with SAE J 1349 at 3600 RPM. Mass production engines vary from this value. Actual power output for the engine installed in the delivered machine may vary depending on numerous factors. These factors can include operation speed of the engine in the application, environmental conditions, and other variables.

4. Volumes based on ISO 7546:1983.

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Specifications: Electrical and Communications

TRANSMITTER BATTERY	TR825 and WR825	
Power Supply (Battery MBM06MH)	NiMH 7.2 V	
Antenna	Internal	
Housing Material	PA 6 (20% fg)	
Protection Degree	IP65	
Dimensions	310 mm x 210 mm x 190 mm	12.2" x 8.3" x 7.5"
Run Time (at 68°F/20°C)	11 hours	
Run Time With Data Feedback (at 68°F/20°C)	9.5 hours	
Run Time With Low Power (at 68°F/20°C)	14 hours	
Run Time With Data Feedback and Low Power (at 68°F/20°C)	12.5 hours	
PERFORMANCE LEVEL OF SAFETY FUNCTIONS ACCORDING TO EN ISO 13849-1		
STOP Protection	PL e (2-wire wiring)	
Protection against unintended movement from standstill position	PL d	
Protection Degree	IP65	
AC BATTERY CHARGER		
Supply Voltage	80-250 VAC (50/60 Hz)	
Maximum Recharge Time	4 hours	
Recharge Temperature Range	41°F -113°F	+5°C - +45°C
Protection Degree	IP40	
DYNAMIC SERIES TECHNICAL DATA		
Frequency band in dynamic mode	915 - 928 MHz	
Frequency band in static mode	915 - 928 MHz	
Transmitting power	Meets the Requirements for free-License Apparatus	
Available radio channels	260	
Available radio channels with static mode	260	
Channel spacing	50 kHz	
Hamming distance	> 15	
Probability of undetected error	< 10-15	
Typical working range	100 m	328'
Working range with low power function	30 m	100'
Command response time	80 - 130 ms	
Active stop cut-in time (typical)	< 80 ms	
Active stop cut-in time (maximum)	130 ms	
Passive stop cut-in time	0.5 / 1.2 / 2s	

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Decals: TR825 Loader (Aus)

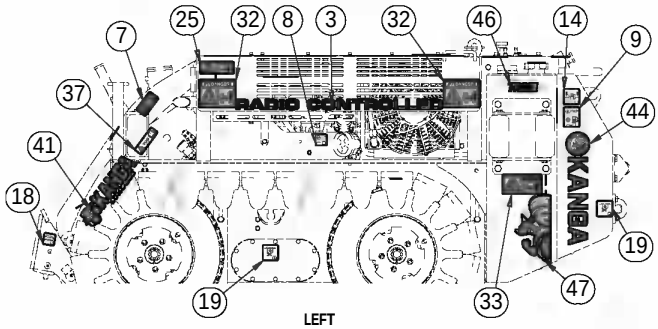
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	**DE-000046**	DECAL (DIAL 1100) - SMALL - 90MM x 35MM
2	2	**DE-000221**	DECAL - POWERED BY KUBOTA
3	2	**DE-000290**	DECAL LONG RADIO CONTROLLED
4	1	**DE-000731**	DECAL - KANGA SERVICE AND SPARES
5	2	**DE-000777**	DECAL - FILL BOTH FUEL TANKS
6	1	**DE-000930**	DECAL ISO KANGA UNI SAFE CONNECTION
7	2	**DE-000933**	DECAL ISO CRUSHED HAND SMALL
8	1	**DE-000934**	DECAL ISO ENGINE OIL DIPSTICK
9	2	**DE-000935**	DECAL ISO COMBUSTIBLE LIQUID
10	2	**DE-000936**	DECAL ISO UNLOCKING ARM SAFETY PIN
11	1	**DE-000937**	DECAL ISO HOT FLUID UNDER PRESSURE
12	1	**DE-000938**	DECAL ISO OIL & CHARGE
13	1	**DE-000939**	NAME PLATE OPERATOR CONTROLS TR825
14	2	**DE-000945**	DECAL ISO MAX FILL LEVEL
15	1	**DE-000946**	DECAL ISO TYRE PRESSURE
16	1	**DE-000947**	DECAL ISO CORROSIVE
17	1	**DE-000950**	DECAL ISO HYDRAULIC OIL
18	5	**DE-000953**	DECAL ISO GREASE POINT
19	4	**DE-000954**	DECAL ISO LASHING POINT
20	1	**DE-000955**	DECAL ISO MULTI SAFETY PANEL
21	2	**DE-000957**	DECAL ISO CRUSHED HAND LARGE
22	4	**DE-000959**	DECAL ISO LIFTING POINT
23	1	**DE-000960**	DECAL ISO CAUTION REMOVE KEY BEFORE MAINTENANCE
24	1	**DE-000961**	DECAL ISO CAUTION FLUID UNDER PRESSURE
25	2	**DE-000962**	DECAL ISO HOT EXHAUST
26	1	**DE-000965**	DECAL ISO COMMON LIFT PIN STORAGE LOCATION
27	1	**DE-000966**	DECAL ISO MANUAL CONTROL MODE
28	1	**DE-000967**	DECAL ISO RADIO REMOTE MODE
29	1	**DE-000968**	DECAL ISO SECONDARY ISOLATOR OFF
30	1	**DE-000969**	DECAL ISO BATTERY MASTER SWITCH ON
31	1	**DE-000970**	DECAL ISO BATTERY MASTER SWITCH OFF
32	4	**DE-000971**	DECAL ISO DANGER REMOTE CONTROLLED
33	2	**DE-000972**	DECAL ISO DANGER MACHINE COULD START AT ANY TIME
34	2	**DE-000973**	DECAL ISO REMOTE LOADER ARM LOCKING PIN LOCATION
35	1	**DE-000974**	DECAL ISO WATER TEMP AND GLOW
36	1	**DE-000975**	DECAL ISO TR825 IGNITION
37	2	**DE-000981**	DECAL ISO RATED OPERATING CAPACITY REFER TO MANUAL
38	1	**DE-002064**	DECAL ISO CAUTION READ MANUAL BEFORE USE
39	1	**DE-002066**	DECAL ISO IGNITION KEY
40	1	**DE-002067**	DECAL ISO BATTERY ISOLATOR
41	1	**DE-002146-L**	KANGA LOGO - ARMS (LEFT SIDE)
42	1	**DE-002146-R**	KANGA LOGO - ARMS (RIGHT SIDE)
43	1	**DE-002147-R**	KANGA REAR TANK (RIGHT SIDE)
44	1	**DE-002147-L**	KANGA REAR TANK (LEFT SIDE)
45	2	**DE-002148**	6/7 SERIES SIDE TANK
46	2	**DE-002157**	TR825 MODEL NUMBER - UPPER
47	1	**DE-002172-L**	KANGAROO SIDE TANK (LEFT SIDE)
48	1	**DE-002172-R**	KANGAROO SIDE TANK (RIGHT SIDE)

Note

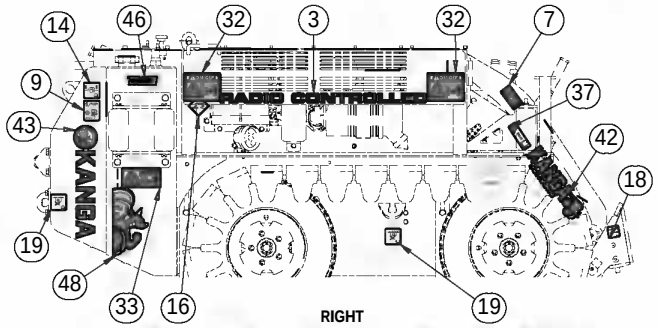
The above figures and table show typical safety decal labels location. The actual position and quantity of the labels on your product may differ.

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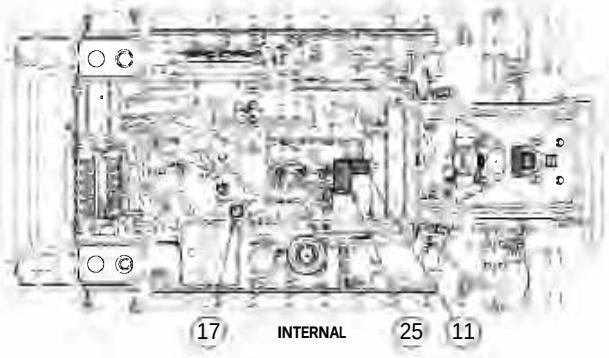
Decals: TR825 Loader (Aus) - With Counter Weights



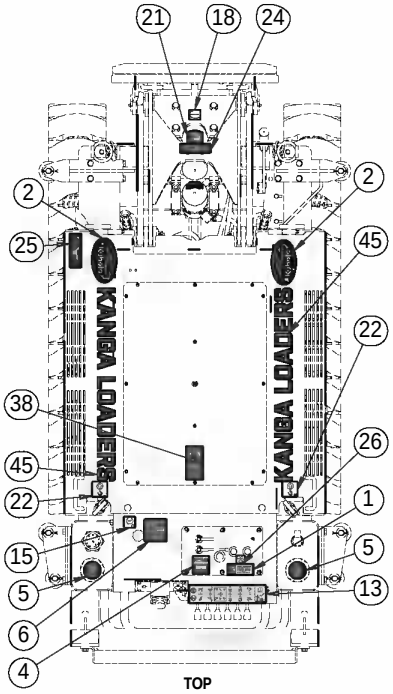
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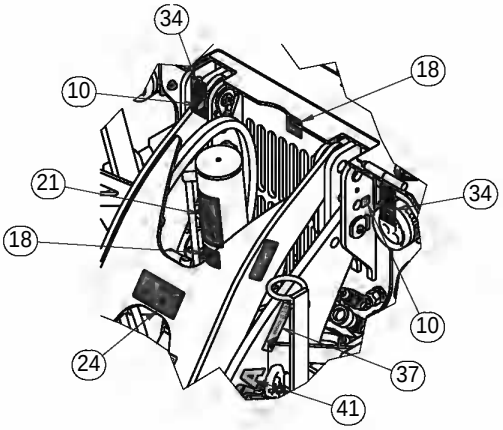
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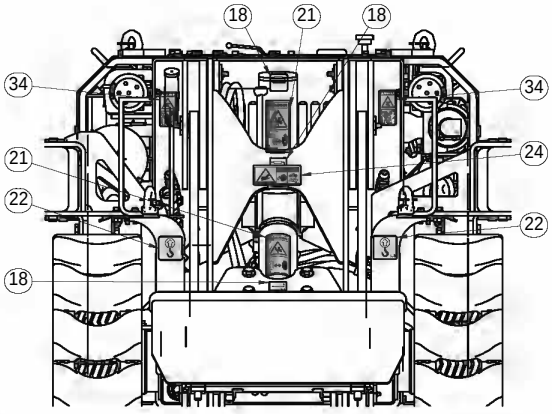
INTERNAL



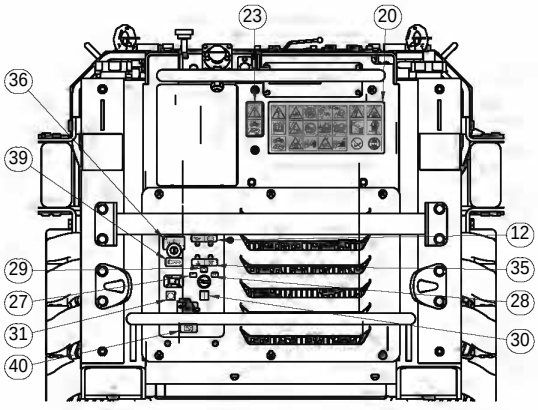
TOP



BOOM DETAIL



FRONT

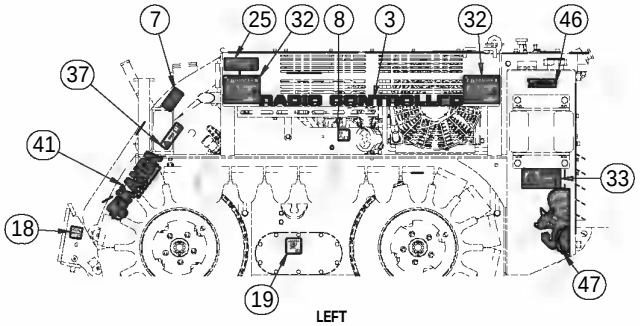


BACK

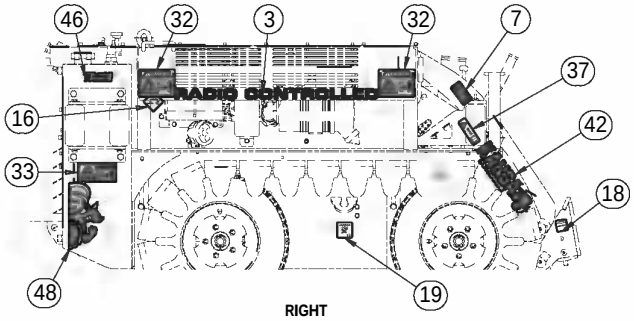
* Branding decals may vary in different countries. Contact your local branch before ordering.

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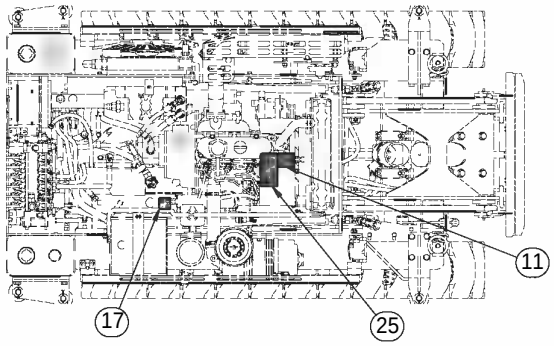
Decals: TR825 Loader (Aus) - Without Counter Weights

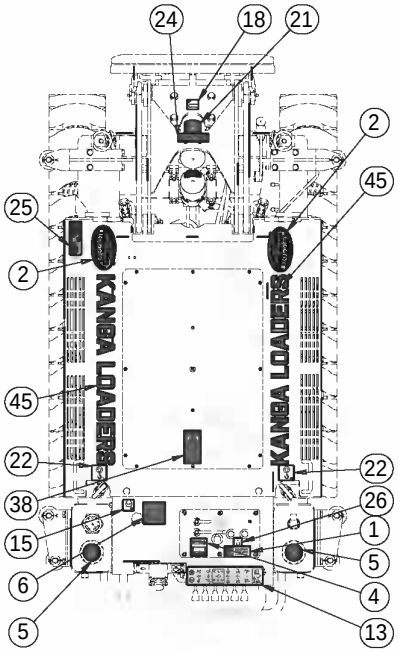


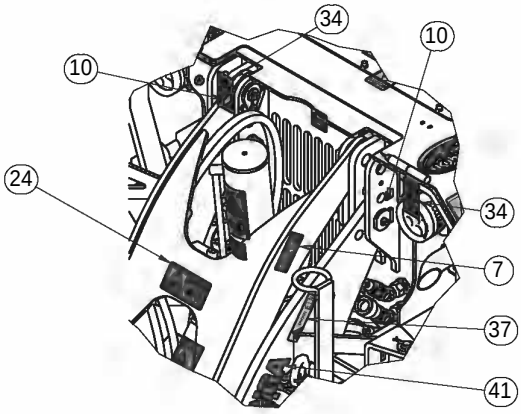
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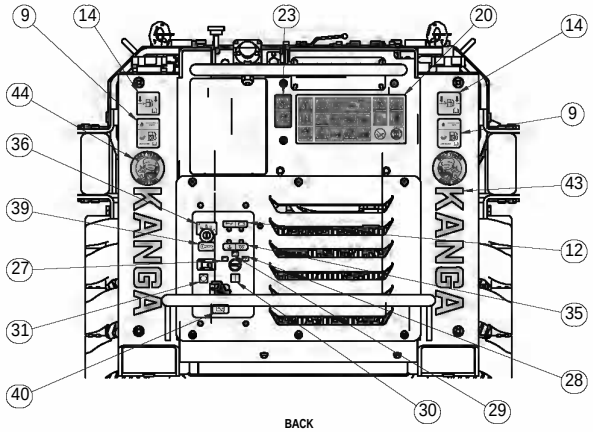
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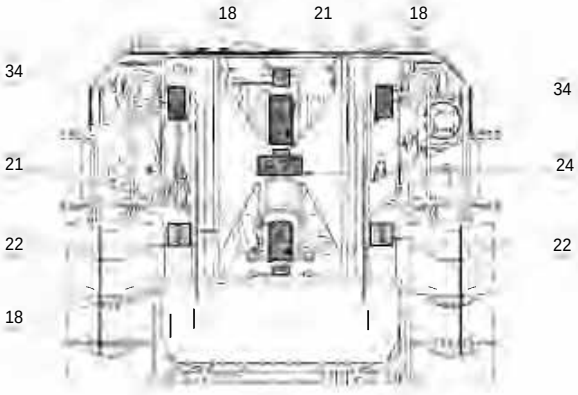




BOOM DETAIL



BACK



FRONT

* Branding decals may vary in different countries. Contact your local branch before ordering.

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Decals: TR825 Loader (USA)

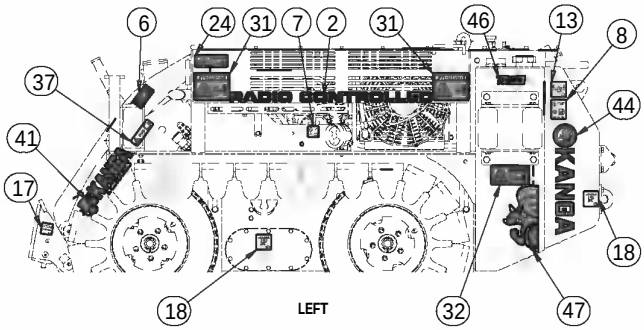
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	**DE-000221**	DECAL - POWERED BY KUBOTA
2	2	**DE-000290**	DECAL LONG RADIO CONTROLLED
3	1	**DE-000538**	DECAL - P65 WARNING - 82MM x 43MM
4	2	**DE-000777**	DECAL - FILL BOTH FUEL TANKS
5	1	**DE-000930**	DECAL ISO KANGA UNI SAFE CONNECTION
6	2	**DE-000933**	DECAL ISO CRUSHED HAND SMALL
7	1	**DE-000934**	DECAL ISO ENGINE OIL DIPSTICK
8	2	**DE-000935**	DECAL ISO COMBUSTIBLE LIQUID
9	2	**DE-000936**	DECAL ISO UNLOCKING ARM SAFETY PIN
10	1	**DE-000937**	DECAL ISO HOT FLUID UNDER PRESSURE
11	1	**DE-000938**	DECAL ISO OIL & CHARGE
12	1	**DE-000939**	NAME PLATE OPERATOR CONTROLS TR825
13	2	**DE-000945**	DECAL ISO MAX FILL LEVEL
14	1	**DE-000946**	DECAL ISO TYRE PRESSURE
15	1	**DE-000947**	DECAL ISO CORROSIVE
16	1	**DE-000950**	DECAL ISO HYDRAULIC OIL
17	5	**DE-000953**	DECAL ISO GREASE POINT
18	4	**DE-000954**	DECAL ISO LASHING POINT
19	1	**DE-000955**	DECAL ISO MULTI SAFETY PANEL
20	2	**DE-000957**	DECAL ISO CRUSHED HAND LARGE
21	4	**DE-000959**	DECAL ISO LIFTING POINT
22	1	**DE-000960**	DECAL ISO CAUTION REMOVE KEY BEFORE MAINTENANCE
23	1	**DE-000961**	DECAL ISO CAUTION FLUID UNDER PRESSURE
24	2	**DE-000962**	DECAL ISO HOT EXHAUST
25	1	**DE-000965**	DECAL ISO COMMON LIFT PIN STORAGE LOCATION
26	1	**DE-000966**	DECAL ISO MANUAL CONTROL MODE
27	1	**DE-000967**	DECAL ISO RADIO REMOTE MODE
28	1	**DE-000968**	DECAL ISO SECONDARY ISOLATOR OFF
29	1	**DE-000969**	DECAL ISO BATTERY MASTER SWITCH ON
30	1	**DE-000970**	DECAL ISO BATTERY MASTER SWITCH OFF
31	4	**DE-000971**	DECAL ISO DANGER REMOTE CONTROLLED
32	2	**DE-000972**	DECAL ISO DANGER MACHINE COULD START AT ANY TIME
33	2	**DE-000973**	DECAL ISO REMOTE LOADER ARM LOCKING PIN LOCATION
34	1	**DE-000974**	DECAL ISO WATER TEMP AND GLOW
35	1	**DE-000975**	DECAL ISO TR825 IGNITION
36	1	**DE-000980**	DECAL USA SERVICE REPAIRS AND SPARES
37	2	**DE-000981**	DECAL ISO RATED OPERATING CAPACITY REFER TO MANUAL
38	1	**DE-002064**	DECAL ISO CAUTION READ MANUAL BEFORE USE
39	1	**DE-002066**	DECAL ISO IGNITION KEY
40	1	**DE-002067**	DECAL ISO BATTERY ISOLATOR
41	1	**DE-002146-L**	KANGA LOGO - ARMS (LEFT SIDE)
42	1	**DE-002146-R**	KANGA LOGO - ARMS (RIGHT SIDE)
43	1	**DE-002147-R**	KANGA REAR TANK (RIGHT SIDE)
44	1	**DE-002147-L**	KANGA REAR TANK (LEFT SIDE)
45	2	**DE-002148**	6/7 SERIES SIDE TANK
46	2	**DE-002157**	TR825 MODEL NUMBER - UPPER
47	1	**DE-002172-L**	KANGAROO SIDE TANK (LEFT SIDE)
48	1	**DE-002172-R**	KANGAROO SIDE TANK (RIGHT SIDE)

Note

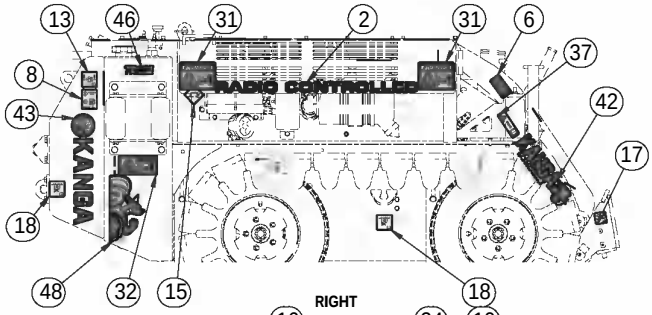
The above figures and table show typical safety decal labels location. The actual position and quantity of the labels on your product may differ.

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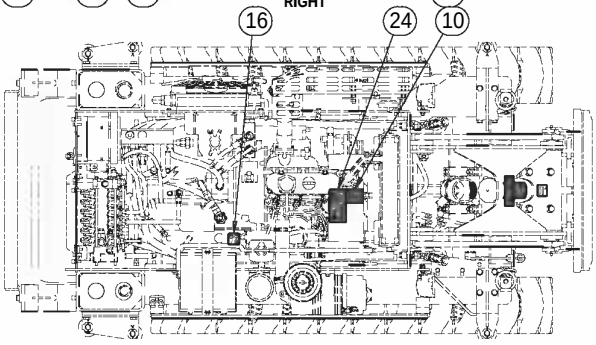
Decals: TR825 Loader (USA) - With Counter Weights



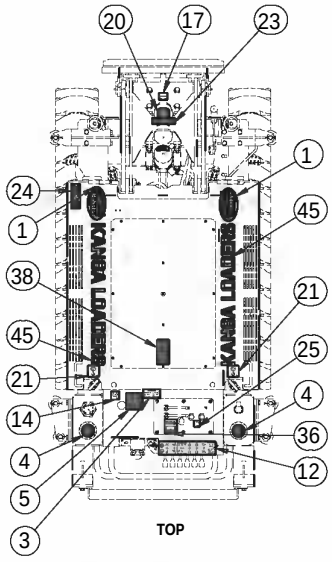
LEFT



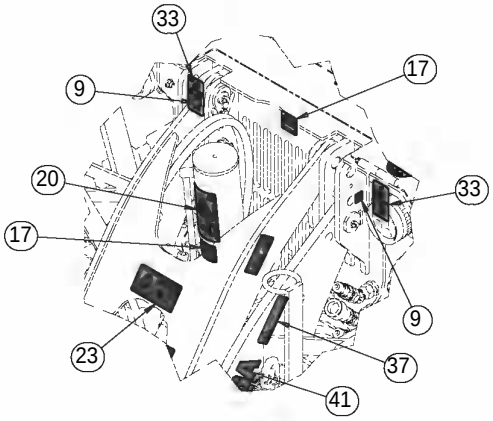
RIGHT



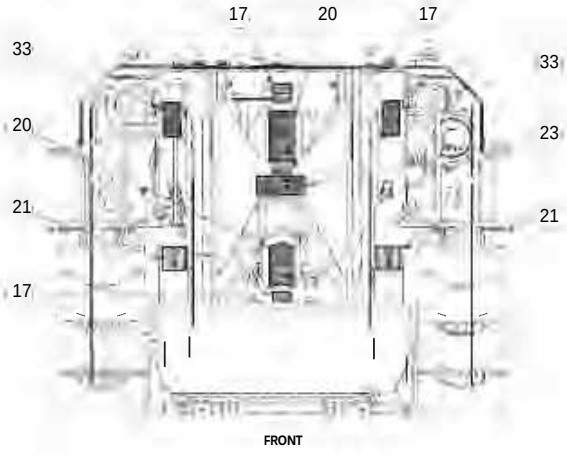
INTERNAL



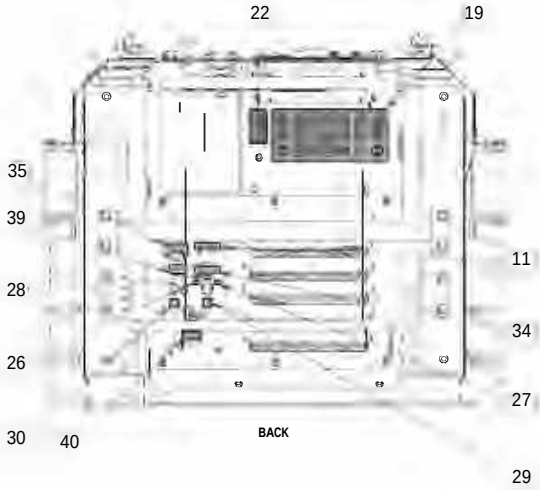
TOP



BOOM DETAIL



FRONT

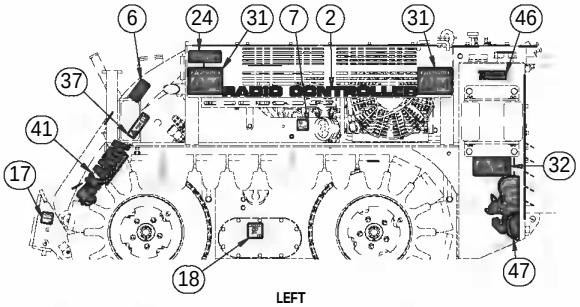


BACK

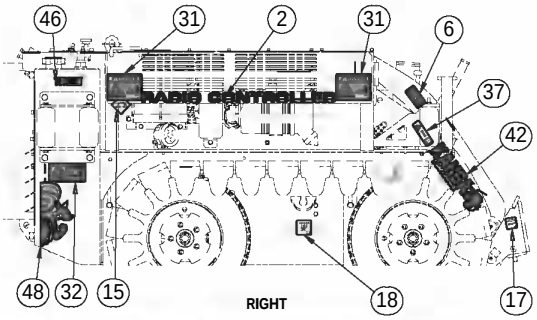
* Branding decals may vary in different countries. Contact your local branch before ordering.

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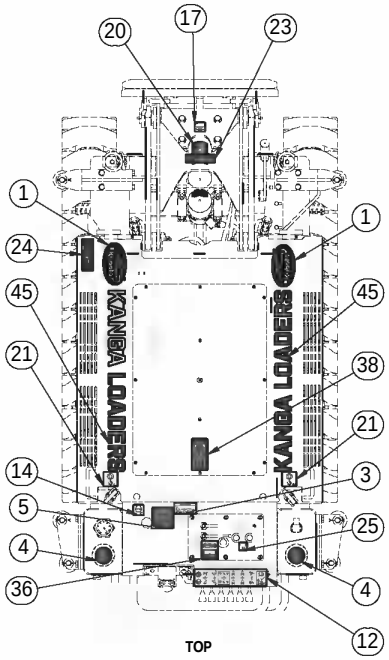
Decals: TR825 Loader (USA) - Without Counter Weights



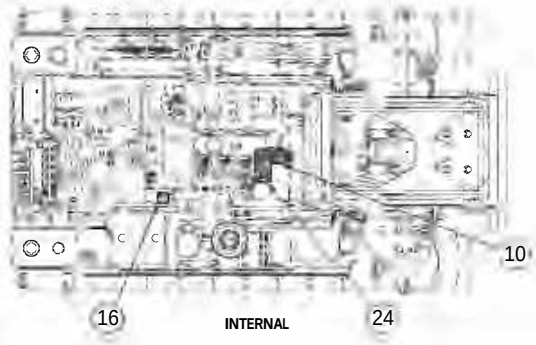
LEFT



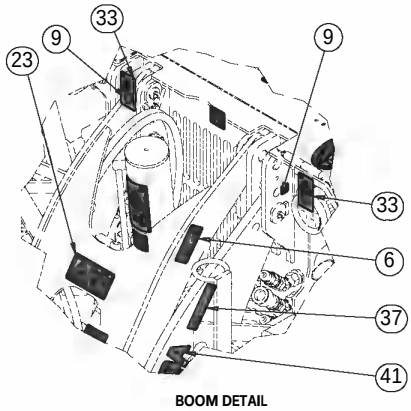
RIGHT



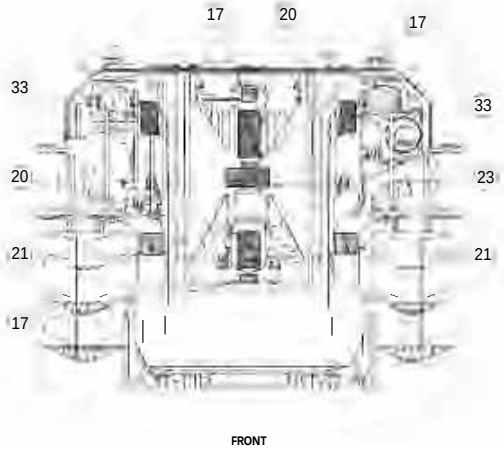
TOP



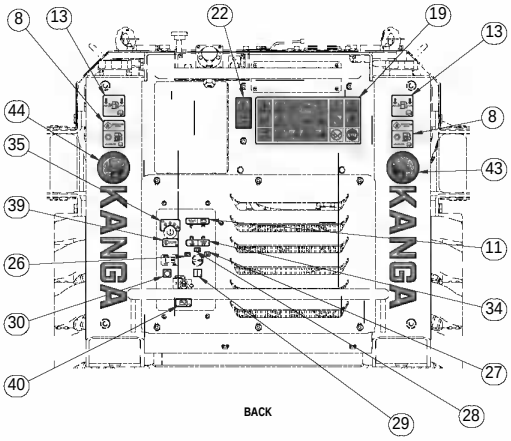
INTERNAL



BOOM DETAIL



FRONT



BACK

* Branding decals may vary in different countries. Contact your local branch before ordering.

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Decals: WR825 Loader (Aus)

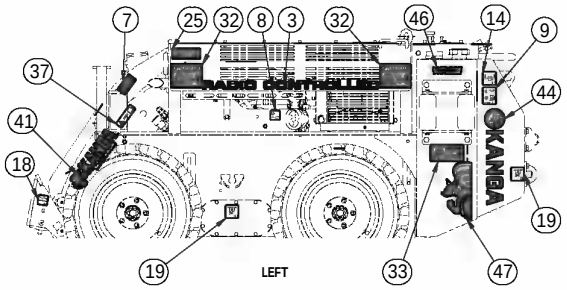
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	**DE-000046**	DECAL (DIAL 1100) - SMALL - 90MM x 35MM
2	2	**DE-000221**	DECAL - POWERED BY KUBOTA
3	2	**DE-000290**	DECAL LONG RADIO CONTROLLED
4	1	**DE-000731**	DECAL - KANGA SERVICE AND SPARES
5	2	**DE-000777**	DECAL - FILL BOTH FUEL TANKS
6	1	**DE-000930**	DECAL ISO KANGA UNI SAFE CONNECTION
7	2	**DE-000933**	DECAL ISO CRUSHED HAND SMALL
8	1	**DE-000934**	DECAL ISO ENGINE OIL DIPSTICK
9	2	**DE-000935**	DECAL ISO COMBUSTIBLE LIQUID
10	2	**DE-000936**	DECAL ISO UNLOCKING ARM SAFETY PIN
11	1	**DE-000937**	DECAL ISO HOT FLUID UNDER PRESSURE
12	1	**DE-000938**	DECAL ISO OIL & CHARGE
13	1	**DE-000939**	NAME PLATE OPERATOR CONTROLS TR825
14	2	**DE-000945**	DECAL ISO MAX FILL LEVEL
15	1	**DE-000946**	DECAL ISO Tyre PRESSURE
16	1	**DE-000947**	DECAL ISO CORROSIVE
17	1	**DE-000950**	DECAL ISO HYDRAULIC OIL
18	5	**DE-000953**	DECAL ISO GREASE POINT
19	4	**DE-000954**	DECAL ISO LASHING POINT
20	1	**DE-000955**	DECAL ISO MULTI SAFETY PANEL
21	2	**DE-000957**	DECAL ISO CRUSHED HAND LARGE
22	4	**DE-000959**	DECAL ISO LIFTING POINT
23	1	**DE-000960**	DECAL ISO CAUTION REMOVE KEY BEFORE MAINTENANCE
24	1	**DE-000961**	DECAL ISO CAUTION FLUID UNDER PRESSURE
25	2	**DE-000962**	DECAL ISO HOT EXHAUST
26	1	**DE-000965**	DECAL ISO COMMON LIFT PIN STORAGE LOCATION
27	1	**DE-000966**	DECAL ISO MANUAL CONTROL MODE
28	1	**DE-000967**	DECAL ISO RADIO REMOTE MODE
29	1	**DE-000968**	DECAL ISO SECONDARY ISOLATOR OFF
30	1	**DE-000969**	DECAL ISO BATTERY MASTER SWITCH ON
31	1	**DE-000970**	DECAL ISO BATTERY MASTER SWITCH OFF
32	4	**DE-000971**	DECAL ISO DANGER REMOTE CONTROLLED
33	2	**DE-000972**	DECAL ISO DANGER MACHINE COULD START AT ANY TIME
34	2	**DE-000973**	DECAL ISO REMOTE LOADER ARM LOCKING PIN LOCATION
35	1	**DE-000974**	DECAL ISO WATER TEMP AND GLOW
36	1	**DE-000975**	DECAL ISO TR825 IGNITION
37	2	**DE-000981**	DECAL ISO RATED OPERATING CAPACITY REFER TO MANUAL
38	1	**DE-002064**	DECAL ISO CAUTION READ MANUAL BEFORE USE
39	1	**DE-002066**	DECAL ISO IGNITION KEY
40	1	**DE-002067**	DECAL ISO BATTERY ISOLATOR
41	1	**DE-002146-L**	KANGA LOGO - ARMS (LEFT SIDE)
42	1	**DE-002146-R**	KANGA LOGO - ARMS (RIGHT SIDE)
43	1	**DE-002147-R**	KANGA REAR TANK (RIGHT SIDE)
44	1	**DE-002147-L**	KANGA REAR TANK (LEFT SIDE)
45	2	**DE-002148**	6/7 SERIES SIDE TANK
46	2	**DE-002158**	WR825 MODEL NUMBER - UPPER
47	1	**DE-002172-L**	KANGAROO SIDE TANK (LEFT SIDE)
48	1	**DE-002172-R**	KANGAROO SIDE TANK (RIGHT SIDE)

Note

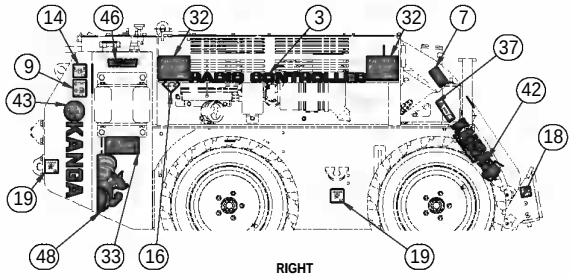
The above figures and table show typical safety decal labels location. The actual position and quantity of the labels on your product may differ.

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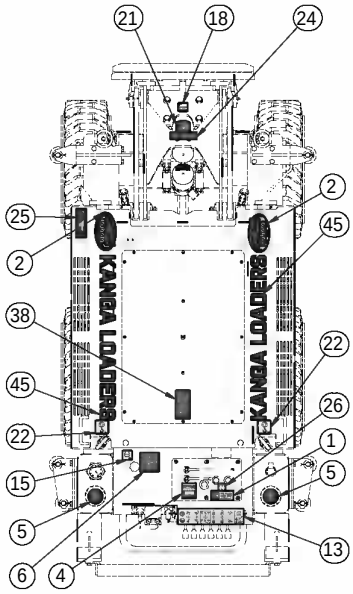
Decals: WR825 Loader (Aus) - With Counter Weights



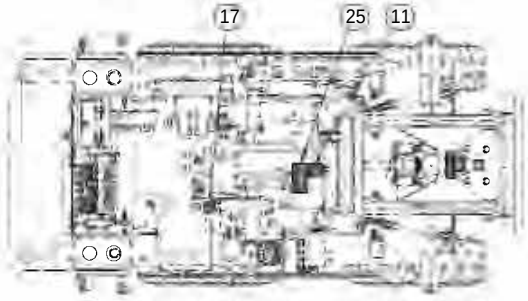
LEFT



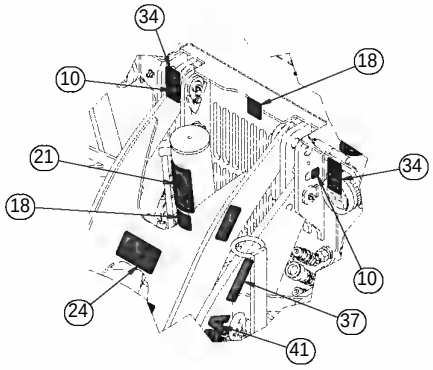
RIGHT



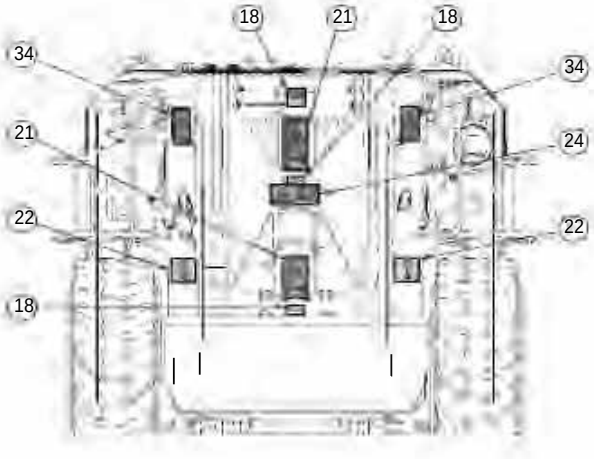
TOP



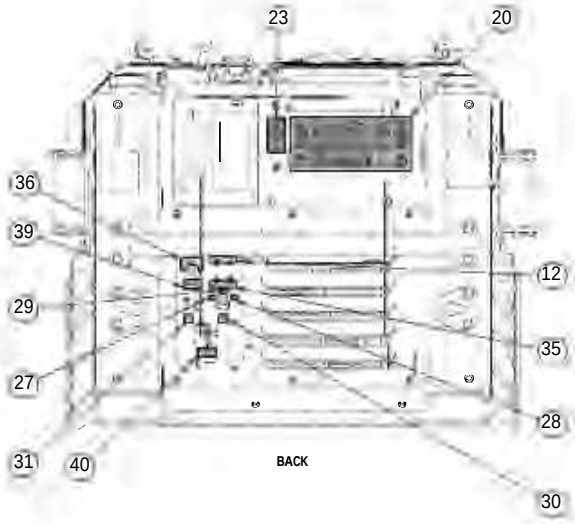
INTERNAL



BOOM DETAIL



FRONT

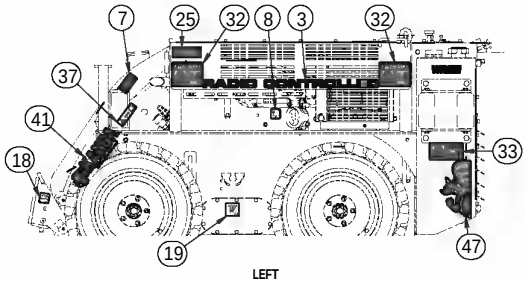


BACK

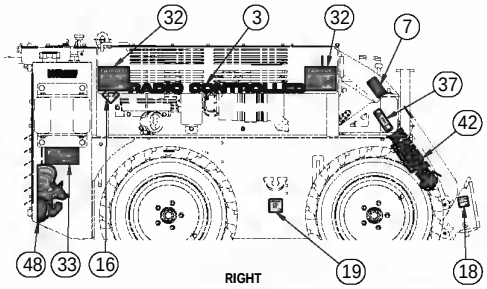
* Branding decals may vary in different countries. Contact your local branch before ordering.

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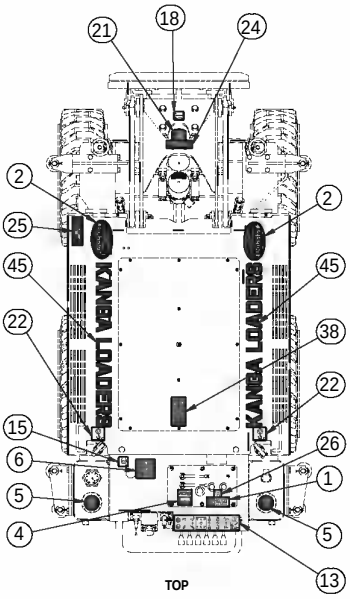
Decals: WR825 Loader (Aus) - Without Counter Weights



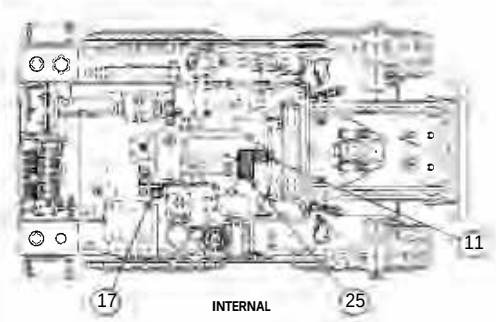
LEFT



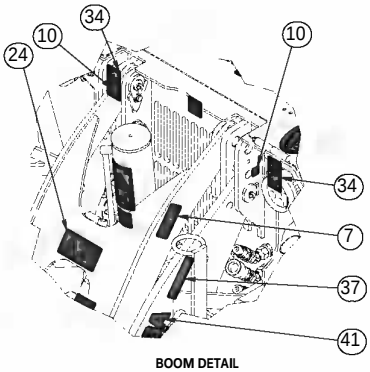
RIGHT



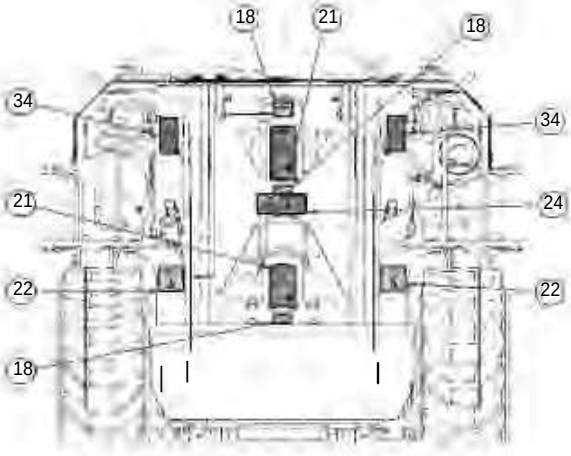
TOP



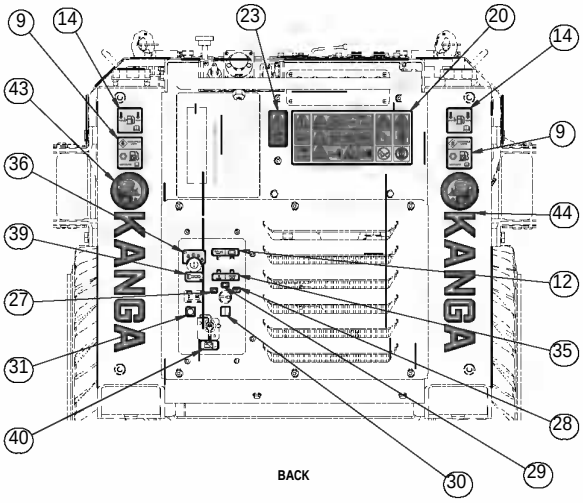
INTERNAL



BOOM DETAIL



FRONT



BACK

* Branding decals may vary in different countries. Contact your local branch before ordering.

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Decals: WR825 Loader (USA)

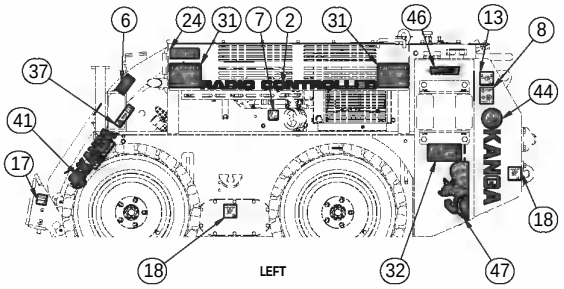
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	**DE-000221**	DECAL - POWERED BY KUBOTA
2	2	**DE-000290**	DECAL LONG RADIO CONTROLLED
3	1	**DE-000538**	DECAL - P65 WARNING - 82MM x 43MM
4	2	**DE-000777**	DECAL - FILL BOTH FUEL TANKS
5	1	**DE-000930**	DECAL ISO KANGA UNI SAFE CONNECTION
6	2	**DE-000933**	DECAL ISO CRUSHED HAND SMALL
7	1	**DE-000934**	DECAL ISO ENGINE OIL DIPSTICK
8	2	**DE-000935**	DECAL ISO COMBUSTIBLE LIQUID
9	2	**DE-000936**	DECAL ISO UNLOCKING ARM SAFETY PIN
10	1	**DE-000937**	DECAL ISO HOT FLUID UNDER PRESSURE
11	1	**DE-000938**	DECAL ISO OIL & CHARGE
12	1	**DE-000939**	NAME PLATE OPERATOR CONTROLS TR825
13	2	**DE-000945**	DECAL ISO MAX FILL LEVEL
14	1	**DE-000946**	DECAL ISO Tyre PRESSURE
15	1	**DE-000947**	DECAL ISO CORROSIVE
16	1	**DE-000950**	DECAL ISO HYDRAULIC OIL
17	5	**DE-000953**	DECAL ISO GREASE POINT
18	4	**DE-000954**	DECAL ISO LASHING POINT
19	1	**DE-000955**	DECAL ISO MULTI SAFETY PANEL
20	2	**DE-000957**	DECAL ISO CRUSHED HAND LARGE
21	4	**DE-000959**	DECAL ISO LIFTING POINT
22	1	**DE-000960**	DECAL ISO CAUTION REMOVE KEY BEFORE MAINTENANCE
23	1	**DE-000961**	DECAL ISO CAUTION FLUID UNDER PRESSURE
24	2	**DE-000962**	DECAL ISO HOT EXHAUST
25	1	**DE-000965**	DECAL ISO COMMON LIFT PIN STORAGE LOCATION
26	1	**DE-000966**	DECAL ISO MANUAL CONTROL MODE
27	1	**DE-000967**	DECAL ISO RADIO REMOTE MODE
28	1	**DE-000968**	DECAL ISO SECONDARY ISOLATOR OFF
29	1	**DE-000969**	DECAL ISO BATTERY MASTER SWITCH ON
30	1	**DE-000970**	DECAL ISO BATTERY MASTER SWITCH OFF
31	4	**DE-000971**	DECAL ISO DANGER REMOTE CONTROLLED
32	2	**DE-000972**	DECAL ISO DANGER MACHINE COULD START AT ANY TIME
33	2	**DE-000973**	DECAL ISO REMOTE LOADER ARM LOCKING PIN LOCATION
34	1	**DE-000974**	DECAL ISO WATER TEMP AND GLOW
35	1	**DE-000975**	DECAL ISO TR825 IGNITION
36	1	**DE-000980**	DECAL USA SERVICE REPAIRS AND SPARES
37	2	**DE-000981**	DECAL ISO RATED OPERATING CAPACITY REFER TO MANUAL
38	1	**DE-002064**	DECAL ISO CAUTION READ MANUAL BEFORE USE
39	1	**DE-002066**	DECAL ISO IGNITION KEY
40	1	**DE-002067**	DECAL ISO BATTERY ISOLATOR
41	1	**DE-002146-L**	KANGA LOGO - ARMS (LEFT SIDE)
42	1	**DE-002146-R**	KANGA LOGO - ARMS (RIGHT SIDE)
43	1	**DE-002147-R**	KANGA REAR TANK (RIGHT SIDE)
44	1	**DE-002147-L**	KANGA REAR TANK (LEFT SIDE)
45	2	**DE-002148**	6/7 SERIES SIDE TANK
46	2	**DE-002158**	WR825 MODEL NUMBER - UPPER
47	1	**DE-002172-L**	KANGAROO SIDE TANK (LEFT SIDE)
48	1	**DE-002172-R**	KANGAROO SIDE TANK (RIGHT SIDE)

Note

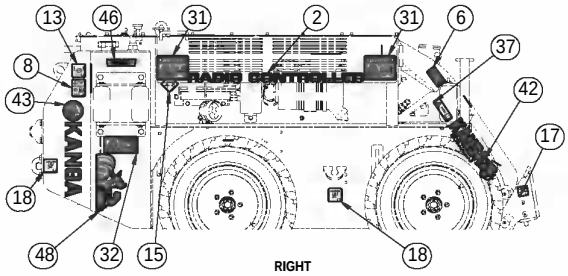
The above figures and table show typical safety decal labels location. The actual position and quantity of the labels on your product may differ.

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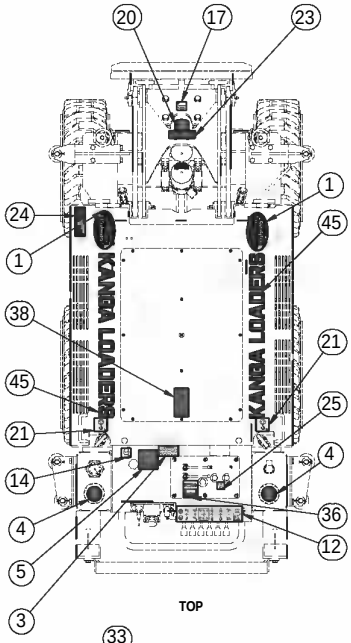
Decals: WR825 Loader (USA) - With Counter Weights



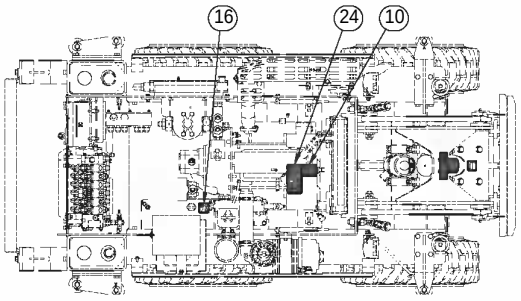
LEFT



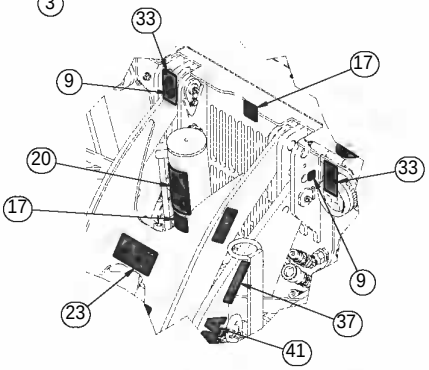
RIGHT



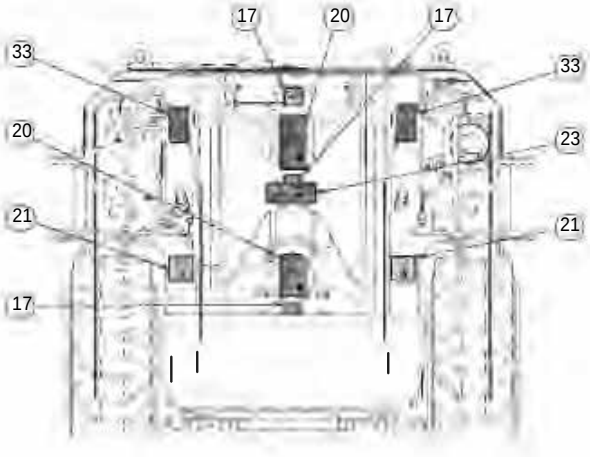
TOP



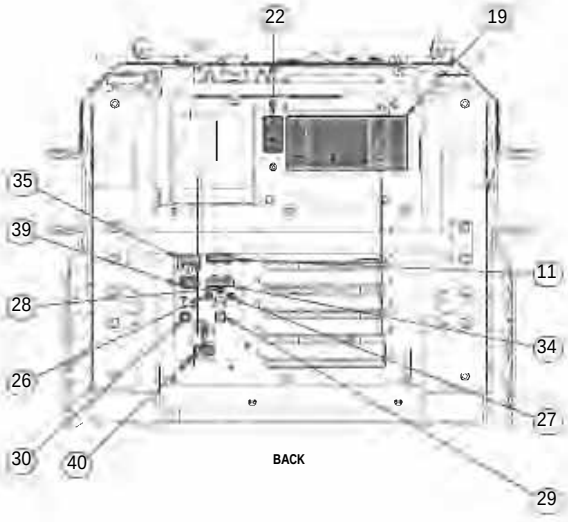
INTERNAL



BOOM DETAIL



FRONT

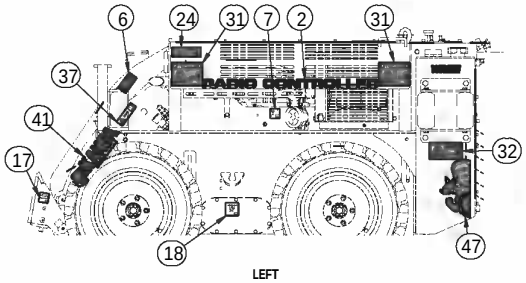


BACK

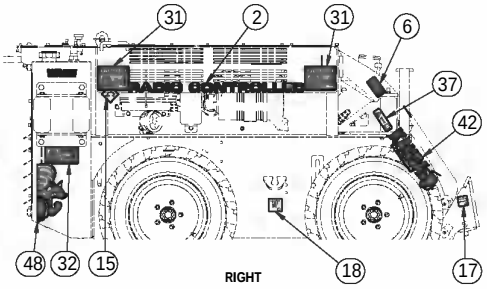
* Branding decals may vary in different countries. Contact your local branch before ordering.

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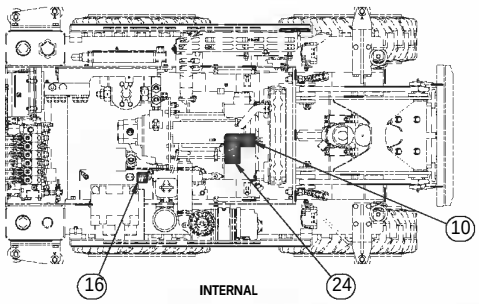
Decals: WR825 Loader (USA) - Without Counter Weights



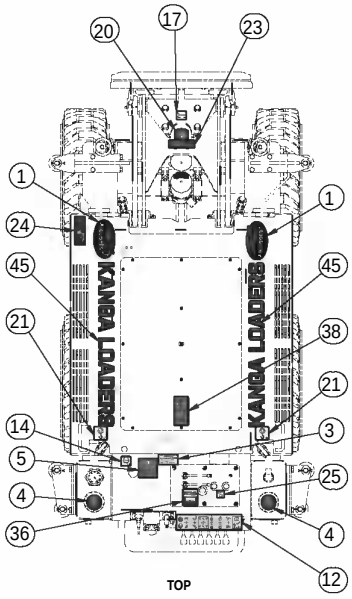
LEFT



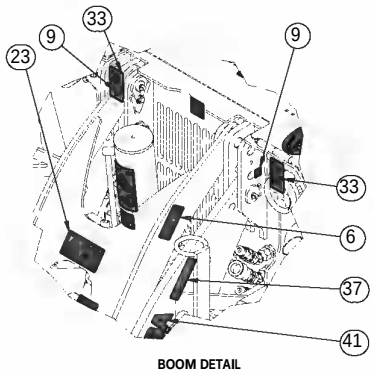
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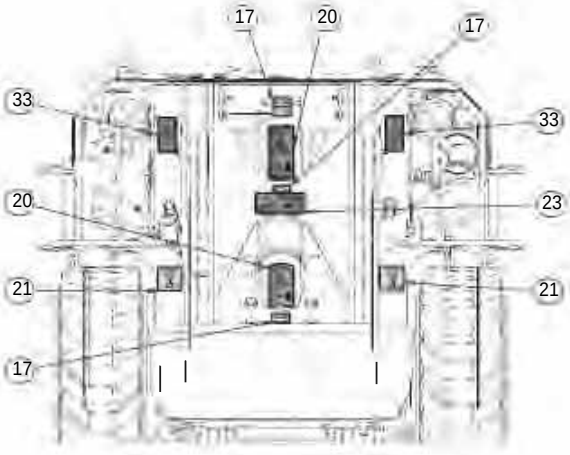
INTERNAL



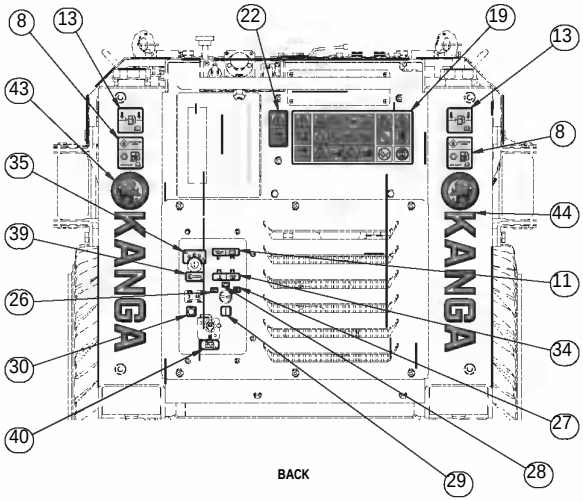
TOP



BOOM DETAIL



FRONT



BACK

* Branding decals may vary in different countries. Contact your local branch before ordering.

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Understand Your Warranty

Terms and Conditions

Kanga

5 years - Loader chassis warranty against structural fault.

12 months/or 1000 hours - Warranty for all other loader components other than that listed in the exclusions paragraph.

Kubota

24 months/or 2000 hours - Limited engine warranty.

12 months/or 1000 hours - Warranty for engine accessories (fuel, starter, and charging systems).

All engine warranty approvals are based upon inspections carried out by Kubota.

Purchaser's Responsibilities
The purchaser must ensure maintenance and minor adjustments, as detailed in the Operator's Manual and engine manufacturer's manual, are carried out as per the schedule. If there is a discrepancy between the two, the Service Chart in the Operator's Manual will take precedence.

The purchaser must notify Kanga Loaders or an authorized Kanga Loader service representative of the need for warranty repair.

The purchaser must organize and is financially responsible for the transport of the product to and from the place of warranty repair.

Product Registration
The purchaser must fill out and return the warranty registration card within 30 days of purchase in order to validate the warranty.

Repairs
Warranty repairs must be carried out by an authorized Kanga dealer. For details, phone.

AUSTRALIA & INTERNATIONAL:
Phone: +61 (0)7 3441 9222

NORTH AMERICA:
Phone: +1 833 305 2642

Battery Warranty—Pro Rata
One to three months - Free replacement.
Four to twelve months - Pro rata over 12 months.

Exclusions (No Warranty)
Normal maintenance, servicing, and replacement items such as spark plugs, oil, oil filters, air filter, muffler, tyres, cutting blades and edges, chains, tracks, cables, etc. are not covered by this warranty.

Any equipment which has been altered, misused, incorrectly assembled, improperly adjusted, neglected, or damaged by accident is not covered by this warranty.

Service completed by someone other than an authorized Kanga Loader dealer is not covered by this warranty.

Any attachment not approved by Kanga Loader or any parts that are not genuine Kanga Loader service parts are not covered by this warranty.

Engines and engine accessories are covered under the terms of the warranty made by the engine manufacturer, and are not covered by this warranty.

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Terms and Conditions (continued)

Note
The standard engine manufacturer's warranty is for two (2) years and is subject to their terms and conditions.

Kanga Loaders may from time to time change the design of its products. Nothing contained in this warranty shall be construed as obligating Kanga Loaders to incorporate such changes into previously manufactured products nor shall such changes be construed as an admission that previous designs were defective.

Limitation of Remedy and Damages
The liability of Kanga Loaders under this express warranty, and under any implied warranty that may exist, is limited to repair or replacement of any defective part. In no event shall Kanga Loaders be liable for incidental, special, or consequential damages (including lost profits).

Disclaimer of Further Warranty
Kanga Loaders makes no warranty other than what is expressly made in this warranty. If the law provides that an implied warranty of merchantability, or an implied warranty of fitness for a particular purpose, applies to Kanga Loaders, any such implied warranty is limited to the duration of this express warranty.

Spare Parts Warranty

Terms and Conditions
Kanga Loaders will warrant any part found to be defective within the conditions of normal usage. Breakage or damage to any part caused by abuse or misuse will not be considered. Hydraulic hoses will not be covered by warranty if any signs of external damage are apparent.

Consumables including tyres, tubes, and tracks are not covered by warranty.

The warranty period is for twelve (12) months from the delivery date and applies to only genuine spare parts.

This warranty does not cover any labour, freight, incidental, or consequential charges.

The warranty claim will not be recognized without the return of the faulty part to Kanga Loaders and must include the loader and attachment serial number.

A warranty claim for any engine part is covered by the engine manufactures standard warranty contained in the engine manual handbook.

It is the owner's responsibility to ensure that the correct hydraulic and engine oil levels are maintained and that maintenance is carried out as required in the manuals. Claims for damage as a result of insufficient oil levels will not be recognized.

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Contact Information

For spare parts, service and support please contact one of our Kanga offices below.

KANGA LOADERS

AUSTRALIA & INTERNATIONAL:

Sales · +61 (0)7 3441 9222
Spare Parts Website · spares.kangaloader.com
Spares Email · info@kangaloader.com
Service Bookings Email · info@kangaloader.com
Visit Our Website · www.kangaloader.com

UNITED STATES:

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Spares Email · infous@kangaloader.com
Service Bookings Email · infous@kangaloader.com
Visit Our Website · www.kangaloaderusa.com

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