

86 Broughton st West Kempsey NSW 2440

ABN: 85 653 599 396

EXCAVATOR SOP

ACRONYMS

LOTO - Lockout/Tagout.

PPE - Personal Protective Equipment.

SOP - Safe Operating Procedure.

HAZARDS - What can cause harm?

- Noise
- ▲ Overhead/underground services
- ▲ machine roll-over
- ▲ Fluid under pressure
- ▲ Fire/explosion
- Falling objects
- ▲ Static positions



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PRECAUTIONS

- All operators are to be trained and competent to operate an excavator safely. Operator training should include:
 - Workplace induction
 - Safe operating procedures
 - Manufacturer's instructions
 - Nature of hazards
 - Fitting of PPE
 - Manual handling
 - Housekeeping
 - First Aid

MAINTENANCE

- o Follow LOTO procedures record service/repairs information in Maintenance Log. Maintenance is to be conducted as per manufacturers' instructions and by qualified persons only
- O When the machine is being taken out of service for maintenance:
 - Shut off and isolate the power supply
 - The power supply is clearly labelled/tagged "do not use."





Machine Licensing: When the excavator is to be operated on public roads, it must be registered and/or licensed as required by the relevant State or local authority. Over-dimension vehicles require an over-dimension permit & must comply with permit conditions.

EQUIPMENT CLEARANCE DISTANCES

- Equipment travelling under or near a power line must:
 - Have a lowered boom/mast and support system
 - Obey minimum clearance distances
 - Reduce speeds to minimize breaching
 - Use a dedicated spotter if closer than 6m/20 feet
 - Illuminate or identify the power lines at night
 - Identify and use a safe path of travel.

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OPERATION

- 1. Operate in accordance with manufacturers' instructions
- 2. Wear prescribed PPE
- 3. Conduct Pre-start checklist before starting operations. Inspect:
 - a. Excavator
 - b. Quick-hitch device
 - c. Attachment
- 4. **Mount & dismount** the machine safely:
 - a. Face the machine whenever you mount & dismount the machine
 - b. Use provided steps/handholds when entering or exiting the cabin
 - c. Maintain a three-point contact with the steps & with handholds
 - d. Before start-up, make sure:
 - i. To adjust the seat to operators' desired position
 - ii. The seat belt is fastened correctly
 - iii. The lock levers are in the "Lock" position & all control levers & pedals are in their neutral positions
- 5. Start up from inside the cabin in a seated position
 - a. Start engine
 - b. Carry out warming operations
 - c. Disengage parking brake
 - d. Check the area is safe, clear of personnel obstacles & sound the horn before moving
- 6. Stopping:
 - a. Give yourself plenty of space when stopping. Try to stop on flat hard ground, if this is not possible & you have to stop on a slope place blocks under the track shoes
 - b. Always set the safety lock lever to the LOCK POSITION to avoid accidental movement
 - c. Do not stop the engine suddenly when operating with heavy loads or at maximum speed



Take care when reversing & remain aware of the machine blind spots.



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d. Never bring the engine to a sudden stop except in the case of a true emergency

7. Driving on slopes:

- a. Raise the bucket approximately 20-30 cm/8-12 in. off the ground as you move the machine
- b. Avoid reversing downhill
- c. When operating through hollows or crossing obstacles, keep the attachment close to the ground & drive slowly
- d. Do not steer or operate across slopes;
 - . Change your operating direction on level ground. This may take more time but is a safer operating technique
- e. Make sure you can safely stop the machine if it starts to skid or becomes unstable
- f. Slewing on slopes may cause the machine to lose balance & tilt. Avoid whenever possible:
 - i. Slewing with a full bucket is especially dangerous. Should this be necessary, create a platform of level ground so that the machine can work on the flat level surface
- g. Do not operate on slopes over 15°
- h. If the sliding blocks slip as you operate uphill & if it is no longer possible to move on with the force of the tracks alone, do not apply pressure with the boom to ease on the machine
- **8.** Connect attachments as per manufacturer's instructions:
 - a. Remove non-essential persons from the area
 - b. Ensure attachment is on a flat, level surface
 - c. With attachment facing excavator, operate the excavator into proper position
 - d. Connect hydraulic hoses as required. Tighten bolts/cap to proper torque
 - e. Ensure all locking pins are secured in place
 - f. Check correct flow & pressure (as per manufacturer's instructions)
 - g. Operator to raise excavator arm slowly & test attachment is secured for use
 - h. Check for oil leaks

9. On completion:

- a. Park in a safe area (flat, firm ground, clear of obstructions, traffic, waterways, hazardous or sensitive areas). If this is not possible, park across the slope
- b. Lower attachments to the ground, turn/lock-off all hydraulic valves. Idle engine down. Activate swing lock. Switch battery disconnect to





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OFF position. Remove keys & apply the park brake

c. Inspect for any damage/leaks. If damage is detected – report immediately & take out of service.



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HAZARD CHECKLIST (POWERED MOBILE MACHINERY)

Make, Model, ID No.:

Names of HSE Representatives/Workers involved: Date:												
	Υ	N	NA		Υ	N	NA		Υ	N	NA	
Risk assessment completed				The passenger seat in good condition				Flashing lights functional				
Daily Inspection conducted				Operator restraints available				Tracks aligned with no missing sections				
Daily logbook completed				Operator restraints functional				WLL displayed				
Instruction manual available				Passenger restraints available				Correct attachment for the job				
SOP available				Passenger restraints functional				The attachment has sufficient WLL				
Maintained within a year				ROPS installed				Quick hitch engaged properly				
The operator has a license				ROPS installed by a competent person				Attachments suitable size for machine				
No unauthorised alterations				ROPS meets relevant standards				Attachments are manufacturer- approved OR deemed safe by a competent person				
Intended for use as designed				ROPS in good condition				Attachments secured properly				
Warning devices installed				ROPS functional				Locking pins in place				
Warning devices positioned for best effect				Safe access/exit from the cabin				Controls labelled correctly				
Passengers have the same level of protection as the operator				Cabin clean, free of clutter				Controls located for easy access				
Danger areas guarded:				Cabin ventilated / AC				Safe access/egress to the site				
Moving motor parts				Clear visibility from cabin windows				Speed Limitres installed				
PTO shafts				The body of machinery is in good condition				Spotters used where required				
Hydraulic hoses/valves etc.				Wheels are the correct type				TMP developed & implemented				
Hot engine/muffler parts				Wheels do not have cracks				LOTO procedures in place				
Others?				Wheels have adequate tread depth				Where "No" is selected, check with your				



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