

EXCAVATOR



SPECIAL INSTRUCTIONS:

1. A licence for high risk work is not required to operate earthmoving plant; however, operators should be trained and assessed as competent by a RTO and be authorised to do so before they are to operate the plant.

Note: This restriction does not apply to a person who is authorised to carry out maintenance or repairs to a tractor or an attachment.

- 2. Refer to SWP *Excavator Use as Crane* for competency requirements and precautions to be followed when using earthmoving plant for loadshifting purposes.
- 3. Refer to SWP Backhoe and SWP Front end loader for competency requirements and precautions to be followed when using combination units.

Sequence	Identified hazards	Key processes to be followed	Precautions / PPE required
1. Pre-start checks	Roll-over protection	Tractors must be fitted with an approved roll-over protective structure (ROPS)	
	_	unless specifically exempted by the appropriate statutory authority.	
	Fuel and fluids	Check fuel, hydraulic oil, engine oil, transmission oil, coolant and battery.	Wear eye and hand protection.
	Tyres	Check tyre condition and pressures; remove any mud lumps from treads.	
	Tracks (tracked units)	Check condition and tension of tracks (refer to operator's manual correct sag).	Wear gloves when handling rough or
	Buckets	Inspect for worn or missing teeth or worn cutting edges.	sharp objects.
		Check pins, bushes and connections for excessive wear.	
	Hydraulics	Check hydraulic rams, hoses and connections for splits, leaks or fractures.	Wear eye and hand protection.
2. Entry and exit	Slipping and falls	Steps and ladders should be of a non-slip type.	Safe means of access must be provided
		Hand holds must be provided to assist operator to maintain 3 points of contact at all	and used for machines when being
		times while mounting or dismounting tractor.	transported or used.
3. Operator position	Seating	Seat should be well-sprung and adjustable to allow operator to maintain a	Maintain proper ergonomic principles
		comfortable operating position.	when setting up seat for operating
	Controls	All levers and gauges must be clearly identified, within easy reach and be easily	position.
		read. Preferred orientation should be such that all needles are in vertical position	
		during correct operating conditions.	Adequate ventilation must be provided.
	Cabin (if fitted)	Exhaust must be placed so as to not allow fumes to enter cabin.	
4. Controls	Lights and alarms	Test all lights, indicators, horn and reversing alarm.	All lights and signals must operate.
	Steering and brakes	Test steering both ways. Check braking and park brake operation.	Lock separated brake pedals together if
	Hydraulic controls	Test all hydraulic operations before loading bucket.	travelling.
5. Travel	Loss of control	Do not travel at speeds which may cause control to be lost over bumps, etc.	Avoid sharp turns and obstacles.
		Carry bucket as close to machine as possible and racked back for visibility.	Items in front bucket must be secured
		Avoid driving over obstacles, ditches, drains, etc. which could affect control.	form movement when travelling.
	Overturning	Avoid sharp turns and travel across slope on a steep incline.	Slow down to turn.

This document is valid until 01 Jun 2024 (for 12 months) unless otherwise notified. This information is intended to provide a general guide to the subject matter and must not be viewed as a definitive guide to the law or legal advice. Specialist advice should be sought regarding this subject matter in your jurisdiction and specific circumstances.



EXCAVATOR



Sequence	Identified hazards	Key processes to be followed	Precautions / PPE required
6. Operation	Buried services	Ensure that all underground services have been identified and located before	Have representative on site if unsure of
		commencing to dig.	actual location.
	Overturning	Avoid swinging loaded bucket with booms extended.	Use packing where ground surface is
	Moving machinery,	Prevent entry to swing area of boom and bucket when excavating.	uneven or unable to support weight of
	crush injury	Ensure that all persons are clear of boom before swinging.	machine.
		Persons working near machinery in operation or areas where traffic may be a	Keep swinging load close to machine.
		hazard should wear high-visibility garments.	Wear high-visibility garment.
	Overstressing of parts	Do not load bucket in excess of working load limit.	NOTE: Wet materials will weigh more per
		Avoid stressing of parts when excavating rock, shale or other tight material.	unit than dry material.
	Dust, falling objects,	Appropriate protective equipment should be used where hazards may be	Wear head, eye and hearing and foot
	noise	encountered during operation.	protection as necessary.
7. Repairs, etc., to	Replacement of teeth	Place bucket on firm, stable, level surface to carry out work.	Ensure that bucket is stable and cannot fall
buckets		Ensure that engine is switched off and hydraulic pressure is relieved before	during work.
		replacing teeth on bucket attached to excavator.	
		Clean excess mud and soil from bucket before replacing teeth.	Wear eye protection when washing or
		Ensure that replacement teeth are compatible with the bucket.	using compressed air. Wear eye
		Check that hand tools to remove damaged or worn teeth are in good condition.	protection when using hand tools such as
		Ensure that replacement teeth are firmly locked in position before digging.	hammers, cold chisels, etc.
8. Transport of	Moving/falling objects	Ensure that buckets are carried in manner which will prevent them moving or	Carry smaller buckets in in raked bucket.
buckets		falling during transport.	Secure loose items against movement.
		Ensure that buckets are secured down firmly if loaded loose on tray of truck.	Buckets should be carried "upside down"
		Use machine to load or unload buckets from truck or trailer.	to reduce risk of movement.

PRECAUTIONS:

The following precautions are to be observed in areas where these procedures are carried out.











