

DOZER BLADE / STICK RAKE OPERATING & MAINTENANCE MANUAL



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1 INTRODUCTION



Dozer Blade Stick Rake

Congratulations on purchasing a Norm Engineering Pty Ltd attachment. We have designed this dozer stick rake for a long, productive, and safe life. Your attachment will provide you with years of service provided regular maintenance and correct usage is applied.

This manual offers a guide on how to safely assemble, mount, operate and maintain your dozer stick rake. While the manual attempts to cover most situations, there are many unforeseen risks and events that are not included due to the capability of the dozer stick rake. On this basis the owner and/or operator must determine if this attachment is suited for a particular purpose.

Norm Engineering Pty Ltd can accept no responsibility or liability for how you operate your equipment: we can only provide warning notes and safety precautions in relation to the standard operation of the dozer stick rake.

The illustrations and data used in this manual were current at the time of printing but due to possible engineering and/or production changes, this product may vary slightly. Norm Engineering Pty Ltd reserves the right to redesign and/or change components as may be necessary without notification.

2 SAFETY DEFINITIONS: TERMS AND SYMBOLS

We will use the ANSI Z535.4-2011(R2017) standard for the definitions of signal words as described in conjunction with colours red, orange, and yellow. These are used with the Safety Alert Symbol:

- <u>Signal word</u>: Are defined as the words used in the signal word panel. The signal words for hazard alerting signs are "DANGER", "WARNING", and "CAUTION". Safety notice signs use the signal word "NOTICE". Safety instruction signs use signal words that are specific to the situation.
 - DANGER: Indicates a hazardous situation, which, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations. (White letters on a red background)



 WARNING: Indicates a hazardous situation, which, if not avoided, could result in death or serious injury. (Black letters on an orange background)



 <u>CAUTION</u>: Indicates a hazardous situation, which, if not avoided, <u>could</u> result in minor or moderate injury. (Black letters on a yellow background)



 <u>NOTICE</u>: Indicates information considered important, but <u>not</u> hazard-related (e.g., messages relating to property damage). (White letters on a blue background)

NOTICE

SAFETY INSTRUCTIONS: Indicates a type of safety sign, where specific safety-related instructions or procedures are described. More definitive signal words are encouraged, where practical (e.g., SAFE SHUTDOWN PROCEDURE, SAFE OPERATING PROCEDURE). (White letters on a green background)

SAFETY INSTRUCTIONS

3 SAFETY INSTRUCTIONS



Obey all the safety instructions listed in this section and throughout this manual. Failure to follow instructions could result in death or serious injury.

NOTICE

Before attempting any type of assembly operation, maintenance, or other work on or near this product:

- READ and COMPLETELY UNDERSTAND:
 - o This manual,
 - The manuals provided with the power unit being used with this attachment.
- Read and understand all safety signs associated with the equipment being used
- Know all your controls and know how to quickly stop all power unit movement, the attachment movement, and the engine in case of an emergency.

SAFETY IS YOUR RESPONSIBILITY AS THE OPERATOR OF THE EQUIPMENT

Inappropriate and/or irresponsible use of a dozer stick rake may cause serious injury and trauma. The operator must have all relevant industry competencies, qualifications, certificates and/or licenses.

The operator must understand their responsibilities under the relevant acts and regulations of the governing body. Failure to comply with your legal obligations under the act may result in prosecutions against you.

As the equipment operator you are responsible to familiarise yourself, and anyone else who will assemble, operate, maintain, or work around this product with the safety information contained within this manual. You must make certain that all operators and maintenance personnel have a complete understanding of the full and exact contents of this manual and those of the power unit.

There are usually specific precautions and steps in the power unit operating manual to be taken to ensure your safety prior to engaging the attachment.

Conduct a job site survey during the planning phase of any construction project to identify potential hazards and develop and implement appropriate control measures to protect workers.

Accidents are preventable if the equipment operator is careful and responsible. No accident prevention program can be successful unless there is a wholehearted commitment and cooperation of the person who is directly responsible for the operation of the equipment.

Make sure anyone who will be installing, maintaining, repairing, removing, and/or storing this product applies the Workplace Health and Safety Act requirements. This includes ensuring that the person has been instructed in the safe operation of this product and of the power unit to which this attachment is likely to be attached.

Know and follow good work practices, some of these include:

- To optimise the physical environment such as having a well-lit, level surface that is clean and dry to work on.
- Use properly grounded, test and tagged electrical outlets and tools.
- Use the right tool for the job at hand.
- Make sure that your tools are in good condition for performing the required function.
- When using tools, wear the protective equipment specified by the tool manufacturer (hardhat, safety glasses, work gloves, protective shoe...)
- When the attachment has been out in the sun, remember to wear protective gloves as the metal will be hot to touch.
- Before starting, know the job duration, job complexity, and best procedure.
- Ensure workers have the capacity to do the job.
- Check that all hazards have been identified and control measures implemented.
- Clear communication so everyone present knows what is happening.
- Clear emergency stop procedure so there is no confusion in an emergency.
- Ensure the use of tyre stoppers and securing framework to stop the plant and plant attachment moving during maintenance.

3.1 IMPORTANT POINTS

When your power unit is used during any type of assembly, operation, maintenance, or other work on or near this product:

- Before leaving the operator's station or before beginning any type of work on this product, lower this product to the ground, apply your power unit's parking brake, stop the engine, remove the starter key, wait for all moving parts to stop and then relieve all pressure in the hydraulic lines. Refer to your power unit's operating manual for instructions on preparing the equipment for hitching up an attachment and relieving hydraulic pressure in lines
- Know your power unit's safe lifting and operating capacity and the weight of this product. (Check the parent machines operator manuals for safe operating limits).
- Only allow the operator to be around the power unit or this product when either is in motion. Ensure work area is clear of all personnel.
- Apply all safety guidelines in relation to the operator and the equipment.
- Only operate controls from the operator's station.
- Maintain operator presence at all times when the engine is running, or the product is raised on the power unit.
- Reduce speeds when additional weight and width need to be considered especially over rough ground.
- Consider the operating environment if dust is a concern reduce the machine speed.
- Whilst in motion keep the product close to the ground and under control.

4 PREDELIVERY

The following steps should be performed when fitting this attachment to a power unit for the first time. Failure to perform these checks may lead to damage of the attachment, the power unit and be a risk to safety. Warranty claims that arise as a result of skipping these steps may be challenged.

4.1 CHECK PICKUP FIT

Perform '5.1 Hitching Up the Dozer Stick Rake' to check how the attachment fits the coupler. Check for the following:

- · Do the pins lock?
- Is it a snug fit?

4.2 CHECK RANGE OF MOTION

Carefully go through the attachment and parent machines full range of motion together. If unexpected contact occurs, contact Norm Engineering to discuss. Due to the capabilities of this product some contact with the machine may be unavoidable. In this case place the warning sticker provided on the attachment and inform the owner/operator.



5 ASSEMBLY INSTRUCTIONS



Obey all instructions listed in this section of the manual. Failure to follow the instructions listed below could lead to serious injuries.

For any assistance with the following processes, please contact Norm Engineering.

5.1 HITCHING UP THE DOZER STICK RAKE



All safety precautions pertaining to both the power unit and the dozer stick rake need to be

followed. Sufficient planning should be made prior to any work commencing in case of an emergency situation.

Step one: Before beginning any work on this product, lower the product to the ground on a firm level surface that is large enough to accommodate this product, the power unit and all workers involved in the hitching up the dozer stick rake.

Step two: Refer to your power unit's operating manual for instructions on hitching up this attachment. Visually inspect to ensure the attachment is fully engaged to the power unit hitch.

Step three: Engage the locking mechanism. A visual inspection should be performed to confirm all locking systems are secured. Give the dozer stick rake a few short sharp movements close to the ground to ensure it is engaged.

5.2 REMOVING THE DOZER STICK RAKE



All safety precautions pertaining to both the power unit and the dozer stick rake pood to be

followed. Sufficient planning should be made prior to any work commencing in case of an emergency situation.

Step one: Remove the machine from anywhere near other personnel and onto a firm level surface large enough to safely accommodate this product, the power unit and all workers involved in removing the dozer stick rake.

Step two: Rest the dozer stick rake on the ground.



Step three: Disengage the locking mechanism. A visual inspection should be performed to make sure the dozer stick rake is fully disengaged.

Step four: Refer to your power unit's operating manual for instructions on removing the attachment and confirm the hitch is fully disengaged from the dozer stick rake.

Step five: Store safely.

6 OPERATING INSTRUCTIONS



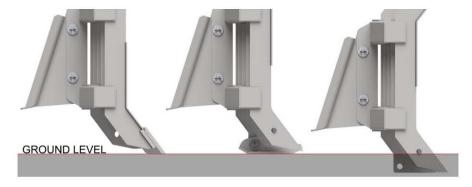
When using the dozer stick rake, ensure all personnel wear appropriate personal protective equipment at all times. All personnel must

stand well clear of the dozer stick rake during operation. Contact with the attachment, parent machine or flying debris and dust could cause injury to personnel working in the vicinity of the machine.

6.1 SPECIFIED OPERATIONS AND LIMITATIONS

The dozer stick rake was designed for the dual functionality of a dozer blade and stick rake. The design allows the pickup section to be removed and rotated.

The dozer blade side is to be used for trimming, grading, and backfilling. The stick rake side is to be used for sieve collection of loose objects along ground level while feet are attached and operation in loose soil with feet removed.





- NEVER use the dozer stick rake as a lifting point.
- NEVER use the dozer stick rake to lift or carry people.



- MISUSE may damage the attachment or lead to injury and trauma.
- DON'T use the dozer stick rake as a lashing point to pull objects.
- ENSURE the correct sized dozer stick rake is selected for your power unit.



 ENSURE you travel at a slower speed appropriate to prevent causing damage if an unseen obstacle is hit.

6.2 ROTATING PICKUP & FEET

The dozer stick rake has a removeable and reversable pickup plate. This allows the attachment to be multi-purpose.

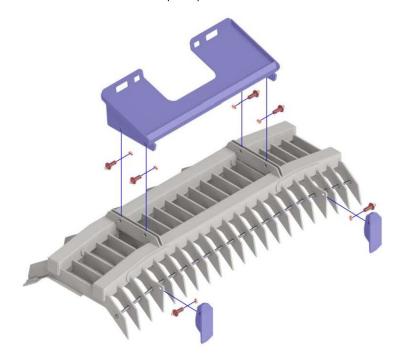
Step one: Park your power unit on a level surface and lower this product onto preplaced blocking. It must be sufficient to support the attachment.

Step two: Follow '5.2 Removing the Dozer Stick Rake' and power unit operating manual for safe disengagement of the attachment.

Step three: Remove the four stick rake quick pins.

Step four: Rotate the pickup plate.

Step five: Secure the stick rake quick pins.



The dozer stick rake has removeable feet. These feet allow the stick rake side to slide across the top of the ground. By removing the stick rake quick pins on the feet, they can be removed, and the stick rake side can be used in loose soil.

7 MAINTENANCE AND CARE



Before commencing maintenance, place the attachment on level ground. Ensure enough area to perform maintenance on the attachment. Follow '5.2 Removing the Dozer Stick Rake'.



After maintenance is complete, follow '5.1 Hitching Up the Dozer Stick Rake'.

7.1 PRIOR TO USE

Prior to use, the dozer stick rake shall be visually inspected to verify the attachment is in an operational state. The inspection will check for:

- Signs of wear, including corrosive and abrasive wear.
- Markings are legible.
- Welds are not damaged, cracked or worn.
- All fasteners are in place and correctly torqued.
- Inspect the wear in the tynes.

7.2 ROUTINE INSPECTION (EVERY 12 WEEKS)

Routine inspections should include but is not limited to the following:

- Pins and bushes should be inspected for signs of excessive wear and replaced before the wear damages the structure of the dozer stick rake.
- Inspect the attachment for wear, particularly around the tynes, and seek advice on repairs if wear is excessive.
- Check to ensure attachment markings are legible.

7.3 ROTATING THE BOLT-ON CUTTING EDGE



- DO NOT use blocking material that could collapse or shift positions.
- DO NOT use wood or steel blocking that shows any signs of material decay.
- DO NOT use blocking that is warped, twisted, or tapered.
- ENSURE a safe working environment prior to undertaking any replacements to the dozer stick rake.

Step one: Park your power unit on a level surface and lower this product onto preplaced blocking. It must be sufficient to support the attachment.

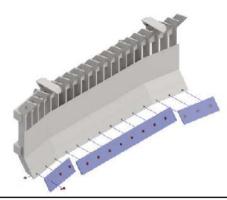
Step two: Follow '5.2 Removing the Dozer Stick Rake' and power unit operating manual for safe disengagement of the attachment.

Step three: Remove all nuts from the bolts that secure the cutting edges to the attachment. Begin in the centre and remove the end nuts last. Use of a pipe wrench or in some cases a hand grinder may be necessary to remove extremely worn or damaged nuts.

Step four: Remove the cutting edge and either rotate or, if this process has already occurred, properly dispose of cutting edge, nuts, and bolts.

Step five: Install the new or reversed cutting edge by securing each end of the cutting edge with new bolts and nuts.

Step six: Install all the remaining new bolts and nuts. Tighten all the nuts to the required torque (60 ft. Lbs).



8 RISK ASSESSMENT

Assessment Team: Norman Pesch, John Pesch, Sam Ramsden

Date of Assessment: 28/04/2022 Manufacturer: Norm Engineering Pty Ltd

Location: Brisbane Contact Person: Norman Pesch

Attachment: Dozer Stick Rake Weight: 170-483kg

Intended use: Clean Up Construction material: Steel

Air Operated: NO Hydraulic Operated: NO Manually operated: YES

NOTE: When assessing Risk, you MUST consider the following

Inherent Risk:

(Risk before ANY controls). I.e., Before guarding / safety features are fitted.

Residual Risk:

(Risk after controls are fitted). I.e., after guarding / safety features are fitted.

Non Standard Operating Risk:

(Cleaning, Maintenance). I.e., What other risks can these tasks create.

Predictable Misuse:

I.e., What risks could occur due to misuse of the attachment.

HAZARD INFORMATION

E - Practically impossible

The plant must be assessed against the hazards listed for the probability of harm to operators working in close proximity and the environment.

Probability Consequence A - Common or repeating occurrence 1 - Catastrophic - Fatalities B - Known to occur or "It has happened" 2 - Major - Major injury, LTI C - Could occur, "I've heard of it happening" 3 - Moderate - Minor Injury D - Not likely to occur 4 - Minor - First aid, slight injury

5 - Insignificant - Minimal risk of injury

	Α	В	С	D	E	
1	Н	Н	Н	S	S	H = High
2	Н	Η	S	S	М	S = Significant
3	Н	Ή	S	М	L	M = Medium
4	Н	S	М	L	L	L = Low
5	S	S	М	L	L	

Entanglement:						
Can anyone's hair, clothing gloves, necktie, jewellery, rags, and other materials become entangled with moving parts of plant, or materials in motion?	Yes	No	A B C D E	1 2 3 4 5	High Significant Medium Low	
Crushing:						
Can anyone be crushed due to falling, uncontrolled or unexpected movement of plant attachment or its load, lack of capacity to slow, stop or immobilise the plant, tipping or rolling over, parts of plant attachment collapsing, contact with moving parts during testing, inspection, maintenance, cleaning, or repair, thrown off, under or trapped between plant and materials or fixed structures? People in close proximity to the plant and plant attachment during operation could be crushed if the operator is not being sufficiently observant, or control over the	Yes	No 🔲	A B C D E	1 2 3 4 5	High Significant Medium Low	
plant is lost. Cutting, Stabbing, Puncturing:						
Can anyone be cut, stabbed, or punctured by coming in contact with moving plant or parts, sharp or flying objects, work pieces ejected, work pieces disintegrated, or other factors not mentioned? Plant attachment has sharp edges by design for digging into the ground.	Yes	No	A B C D E	1 2 3 4 5	High Significant Medium Low	
Striking:						
Can anyone be struck by moving objects due to plant or work pieces being ejected or disintegrated, mobility, uncontrolled or unexpected movement of the plant or other factors? People in close proximity to the plant and	Yes	No	A B C D	1 2 3 4	High Significant Medium Low	

Slipping, Tripping, Falling:						
Can anyone using the plant or in the vicinity of the plant, slip, trip or fall due to the working environment or other factors? poor housekeeping, dust on the floor around machines, slippery or uneven work surfaces or lack of guardrails. People standing on the plant or plant	Yes	No	A B C D E	1 2 3 4 5	High Significant Medium Low	
attachment could slip or fall from it.						
Shearing:						
Can anyone's body parts be cut off between two parts of the plant, or between a part of the plant and a work piece or structure? For example, on a metal guillotine can a finger fit under the guard.	Yes	No	A B C D E	1 2 3 4 5	High Significant Medium Low	
Friction:						
Can anyone be burnt due to contact with moving parts or surfaces of the plant, or material handled by the plant? For example, on the grinder is there more than 1 mm gap between the tool rest and the wheel?	Yes	No ⊠	A B C D E	1 2 3 4 5	High Significant Medium Low	
High Pressure Fluid:						
Can anyone come into contact with fluids under high pressure, due to plant failure or misuse of the plant?	Yes	No	A B C D E	1 2 3 4 5	High Significant Medium Low	
Electrical:						
Can anyone be injured by electrical shock or burnt due to damaged or poorly maintained leads or switches, water near electrical equipment, working near or contact with live electrical conductors, lack of isolation procedures or the factors not mentioned? For example, are any switches broken, is there a red emergency stop? Can each machine be locked off for repairs?	Yes	No	A B C D E	1 2 3 4 5	High Significant Medium Low	

Dust:								
Can anyone suffer ill health or injury due to exposure to dust? For example, cutting, living silica Lack of vision — External influences causing the dust. Plant operation causing the dust. Depending on the operation location of the plant and plant attachment dust could be a nuisance.	Yes	No	A B C D E		1 2 3 4 5		High Significant Medium Low	
Noise:								
Can anyone suffer hearing discomforts while the plant is in use? For example, the plant is noisy, and it is difficult to hear.	Yes	No ⊠	A B C D E		1 2 3 4 5		High Significant Medium Low	
Vibration:								
Can anyone suffer injury due to the vibration of the plant?	Yes	No	A B C D E		1 2 3 4 5		High Significant Medium Low	
Environmental:	•							
Can the plant operation cause an environmental issue? For example – pollution, waste materials, noise.	Yes	No	A B C D E		1 2 3 4 5		High Significant Medium Low	
Risk Evaluation	•							
Overall risk category of plant:	High	(5	Signifi	cant	М	edium	Low	
Substitution - Subst Engineering Controls - Desig	itute the h n modifica e the plan	nazardo ation, in t, barrio	us pla istallat ades,	ent with tion of g crossir	a safe juardi ng, bu	er part, ng, aut nting, e		

Hazard	Controls
Crushing, Striking	Isolation – Ensure the operating and maintenance manual provided with the plant attachment recommends the operator of the plant always follows SOP. The operator must make everybody working in the vicinity of the attachment aware of the dangers and before moving the plant ensure people are safe distance away. PPE – The use of the correct PPE for the worksite will minimize the damage caused by an incident. A hard hat, steel cap boots and tough worksite clothes as an example. PPE – The use of high visibility PPE will help reduce the case of incidents occurring from impaired vision or operator distraction.
Cutting, Stabbing, Puncturing	Isolation – Ensure the operating and maintenance manual provided with the plant attachment recommends the operator of the plant always follows SOP. The operator must make everybody working in the vicinity of the attachment aware of the dangers and before moving the plant ensure people are a safe distance away. PPE – The use of the correct PPE for the worksite will minimize the risk of cutting when working in and around the attachment. Gloves and tough work clothes will reduce the risk associated with touching or bumping into sharp edges on the attachment whilst it is not in operation.
Slipping, Tripping, Falling	Isolation – The plant attachment has NOT been designed to stand on unless entering or exiting the plant. This will be stated in the operating and maintenance manual. It is the responsibility of the operator to ensure that no persons stand on the plant attachment. PPE – Wearing the correct work boots will reduce chances of slipping.
Dust	Isolation and Administrative Controls – To reduce the hazards associated with dust, the manual should instruct the operator to consider their working environment and operate in a manner to reduce the risk of dust being kicked up. This can be managed by operating at a sensible speed. PPE – If the environment is such that the dust cannot be sufficiently controlled, the onsite supervisor should ensure all workers are wearing the correct PPE.

Any Modification to Plant Attachment Voids Risk Assessment Purchaser and User are required to conduct their own risk assessment to identify hazards prior to use.

9 PARTS

QUALITY BACKUP

We manufacture 90% of our parts inhouse. This means we can get your parts to you... quickly.

9.1 ORDERING PARTS

For ordering parts contact either your dealer or Norm Engineering directly. Contact details are included at the front of this manual. To assist, note the details of your dozer stick rake in the spaces provided under Section 9.1.1 Reference Information.

9.1.1 REFERENCE INFORMATION

Always refer to the model and serial number when ordering parts or requesting from you dealer. The serial number for this product is located on the identification place of your dozer stick rake.

Model Number:	
Make:	
Serial Number:	
Date Purchased:	

10 PARTS LIST

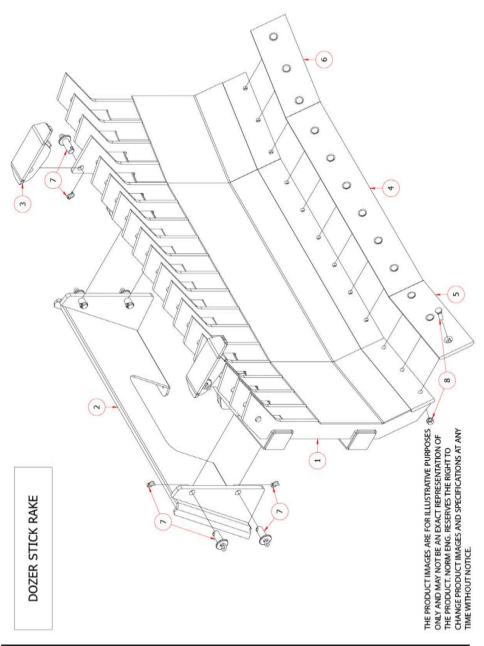
When ordering replacement parts, please include the following information:

- The machine make and model
- The serial number on the attachment
- The item number, as indicated by the following figures and tables.
- Parts with a part number of "..." indicate a component that varies dependent on machine make and model. A serial number and item number is essential if ordering these parts.

DOZER STICK RAKE PARTS LIST

Item	Part Number	QTY	Description	Diagram
1	×	1	REVERSIBLE DOZER STICK RAKE	1
2	*	1	REVERSIBLE PICKUP	1
3	SR0078	2	STICK RAKE FEET	1
4	22	1	CENTRE BOLT-ON CUTTING EDGE	1
5	CE054R	1	RHS BOLT-ON CUTTING EDGE	1
6	CE054L	1	LHS BOLT-ON CUTTING EDGE	1
7	P311	6	STICK RAKE QUICK PIN	1
8	CHI CHI	res	BOLT KIT – BOLT-ON CUTTING EDGE	1

Diagram 1



Dozer Stick Rake - Operating and Maintenance Manual Copyright © Norm Engineering

11 APPENDICES

11.1SAFETY SIGN LOCATIONS

Item	Description
1	Warning Attachment can contact machine
2	Danger Read the manual



ITEM 1



ITEM 2

Instructions

- Keep all safety signs clear and legible.
- Replace all missing, illegible, or damaged safety signs.
- When replacing parts which have safety signs attached make sure the replacement part has the safety sign.

12 WARRANTY

12.1DEFINITION

"Dealer" means a dealer that purchases products directly from Norm Engineering Pty Ltd.

"End consumer" means a consumer that purchases products either directly from Norm Engineering Pty Ltd or directly from a "dealer" as defined above.

"Products" includes goods and services.

12.2WARRANTY

Norm Engineering Pty Ltd welcomes you as a purchaser of its products. All Norm Engineering products are designed to ensure the highest standards, reliability, and performance.

Norm Engineering Pty Ltd warrants hydraulic cylinders against defects in manufacture for a period of twelve months from date of sale by the dealer or Norm Engineering Pty Ltd to the end consumer. The warranty in relation to hydraulic cylinders ceases upon the occurrence of damage to the piston rod of the hydraulic cylinder.

No warranty applies to hoses, tubes, and fittings in relation to any of the products.

Norm Engineering Pty Ltd warrants all its other products against defects in manufacture for a period of twelve months from the date of sale by the dealer or Norm Engineering Pty Ltd to the end consumer.

Norm Engineering Pty Ltd will, subject to the terms of this warranty, in relation to defective goods:

- a) replace the defective goods at no cost to the end consumer; or
- b) repair the defective goods at no cost to the end consumer; or
- c) pay the cost of having the defective goods repaired.

Norm Engineering Pty Ltd will, subject to the terms of this warranty, in relation to defective services:

- a) supply the services again to the end consumer at no cost to the end consumer; or
- b) pay the cost of having the service supplied again to the end consumer.

Warranty claims may be sent either to Norm Engineering Pty Ltd., P.O. Box 178, Mt Ommaney, Qld. 4074 or to the dealer.

All warranty periods shall commence from the date of sale by Norm Engineering Pty Ltd or the dealer to the end consumer. It is the end consumer's responsibility to establish the date of sale of the product to the end consumer by the dealer.

The end consumer may establish the date of sale by producing to Norm Engineering Pty Ltd the dated contract of sale between the end consumer and the dealer with its warranty claim.

If the end consumer is not able to establish the date of sale of the product to the end consumer by the date of its warranty claim, the warranty period shall be deemed to commence from the date of sale of the product by Norm Engineering Pty Ltd to the dealer.

This warranty will not apply if the end consumer does not use the product in accordance with Norm Engineering Pty Ltd's recommendation.

This warranty will not apply if the end consumer does not use products applied or fitted to any machine, equipment, or plant, in accordance with Norm Engineering Pty Ltd's operating recommendation for the product.

This warranty does not apply to any loss or damage caused through consequential neglect. Unless the end consumer indicates to Norm Engineering Pty Ltd prior to purchasing the product that it intends to use the product for a particular purpose, there is no implied warranty that the product will fit for that particular purpose. Ask Norm Engineering for clarification of the intended use is not included in the manual.

Only a dealer authorised in writing, or issued with an order number, by Norm Engineering Pty Ltd may carry out warranty repairs. Prior written approval must be obtained from Norm Engineering Pty Ltd before warranty repairs are carried out. Norm Engineering Pty Ltd will not recognise any warranty claim for reimbursement of repair costs unless the repairs have been carried out by an authorised dealer with prior written approval from Norm Engineering Pty Ltd to carry out the repairs.

Norm Engineering Pty Ltd limits its liability, as follows:

- 1) Pursuant to Section 68A of the Trade Practices Act 1974, this clause applies in respect of any of the goods or services supplied under this contract which are not of a kind ordinarily acquired for personal, domestic, or household use or consumption, provided that this clause will not apply if the end consumer establishes that reliance on it would not be fair and reasonable.
- 2) Liability for breach of a condition or warranty implied into this contract by the Trade Practices Act 1974 other than a condition implied by Section 69 is limited:
- a) In the case of goods, to any one of the following as determined by Norm Engineering Pty Ltd:
- i. the replacement of goods
- ii. the repair of the goods
- iii. the payment of the cost of having the goods repaired, excluding travelling and freight charges.
- b) In the case of services, to any one of the following as determined by Norm Engineering Pty Ltd.
- i. the supplying of the services again; or
- ii. the payment of the cost of having the services supplied again

Expenses incurred by the end consumer in connection with making a warranty claim shall be borne by the end consumer unless otherwise agreed by Norm Engineering Pty Ltd.

To the extent permitted by law, all implied conditions, and warranties in the contract of sale between Norm Engineering Pty Ltd and the end consumer are hereby excluded.

The benefits conferred by this warranty on the end consumer are in addition to all other legal rights and remedies that the end consumer has in respect of the products.

Contracts of sale for products, and this warranty are submitted to the exclusive jurisdiction of the courts of Queensland.

Notes:				
				×- ×-
				- N- N-
	3 3 1 3 1 1 1 1			
		x	W W W W	
			20 20 20 20	

Notes:	





<u>DEALER:</u>
STATE: SIGNED:
END CONSUMER:
NAME:
ADDRESS:
STATE: POSTAL CODE:
PHONE:SIGNED:
DATE OF SALE TO THE END CONSUMER://
DESCRIPTION OF PRODUCTS:
SERIAL NO:
DELIVERY DOCKET NO:
DELIVERY DATE:///

NOTE: THIS FORM IS TO BE COMPLETED BY THE DEALER

AND RETURNED TO: NORM ENGINEERING - P O BOX 178

MT OMMANEY, BRISBANE, QUEENSLAND, AUSTRALIA, 4074