

THE ELIMINATOR MANUAL

All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. Mid North Fabrications reserve the right to make changes to this manual at any time without notice.

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INTRODUCTION

READ THIS MANUAL carefully to learn how to operate and service The Eliminator correctly. Failure to do so could result in personal injury or equipment damage.

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your machine and should remain with the machine when you sell it. (Replacement copies are available from Mid North Fabrications)

MEASUREMENTS in this manual are given in both metric and imperial units. Use only correct replacement parts and fasteners. Metric and Imperial fasteners may require a specific wrench.

RIGHT-HAND AND LEFT-HAND sides are determined by facing the direction the implement will travel when going forward.

WARRANTY is provided as part of Mid North Fabrications PTY LTD support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate which you should receive from your dealer. This warranty provides you the assurance that Mid North Fabrications will back its products where defects appear within the warranty period. Should The Eliminator be abused or modified to change its performance beyond the original factory specifications, the warranty may be denied.

The warranty will not apply to:

- Any mechanical adjustments, parts, replacements, repairs or other servicing which in the judgment of Mid North Fabrications PTY LTD are made or should be made as maintenance.
- Any defect caused by work having been carried out on THE ELIMINATOR not in accordance with the manufacture's recommendations.
- Any defect caused by an alteration or modification not approved by Mid North Fabrications PTY LTD
- Any defect caused by fitment or parts that are not made or approved by Mid North Fabrications PTY LTD
- Any defect caused by misuse, negligence, accidents or as a direct result of failure to carry out proper maintenance service
- Damage caused by continued operation of THE ELIMINATOR after it is known to be defective
- Any defect caused by excessive speed, excessive force or by overloading
- Loss of the use of THE ELIMINATOR, loss of time, inconvenience or the other consequential damages are not covered under this warranty
- Any parts to be deemed as a wear part

OWNERS RESPONSIBILITY The following items are **OWNER COST RESPONSIBILITY** when required as part of normal machine maintenance or as the result of wear or deterioration due to normal operating conditions, industrial fallout, abuse, neglect, hail, flood, salt, stone chips, etc.

ADJUSTMENTS

- Drive chain
- Drive sprockets
- Torque of bolts and screws
- Springs
- Bearings
- Flushing and tightening of hydraulic system

REPLACEMENTS

- Drive chain and sprockets
- Bearings and assemblies
- Hydraulic components and lines
- Pins and bushes
- Wear teeth
- Safety screen

SAFETY

RECOGNIZE SAFETY INFORMATION This is the safety-alert symbol. When you see this symbol on your machine or in the manual, be alert to the potential for personal injury. Follow recommended precautions and safe operating practices.

UNDERSTANDING SIGNAL WORDS A signal word **DANGER, WARNING, OR CAUTION** is used with the safety-alert symbol. DANGER identifies the most serious hazards. DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

FOLLOW SAFETY INSTRUCTIONS carefully read all safety messages in the manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs are available from Mid North Fabrications PTY LTD. Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction. Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and / or safety affect machine life. If you do not understand any part of this manual and need assistance, contact your dealer.

WEAR PROTECTIVE CLOTHING wear close fitting clothing and safety equipment appropriate to the job. Operating equipment safety requires the full attention of the operator. Do not wear radio or music headphones while operating machine.

PARK MACHINE SAFELY

before working on the machine

- Lower all equipment on the ground
- Stop the engine and remove the key
- Disconnect the battery ground strap
- Hang a DO NOT OPERATE tag in operator station

AVOID CONTACT WITH MOVING PARTS keep hands, feet and clothing away from power driven parts. Never clean, lubricate or adjust machine when it is running.

AVOID CONTACT WITH REEL never attempt to clear obstructions from THE ELIMINATOR unless it is lowered to the ground, hydraulics disengaged and engine shut off and key removed. Reel springs still maybe under tension and may release suddenly if jammed, causing serious injury or death. Everyone must be clear and at a safe distance before starting engine or running the machine.

TRANSPORTING SAFELY check with local laws before transporting, consult with your loader / tractor owner's manual.

REMOVE PAINT BEFORE WELDING OR HEATING avoid potentially toxic fumes and dust. Hazardous fumes can be generated when paint is heated by welding, soldering or using a torch. Do all work outside or in a well-ventilated area. Dispose of paint and solvent properly. If you sand or grind paint, avoid breathing the dust. Wear an approved respirator. If you use solvent or paint stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.

PRESSURIZED HYDRAULIC LINES flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself or bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials. Pressurized lines can be accidentally cut when heat goes beyond the immediate flame area. Extreme caution must be taken around pressurized hydraulic lines, burst lines may cause hydraulic oil to escape at extreme pressure causing it to puncture the body and cause serious harm.

ATTACHING AND DETACHING

- Make sure that coupler plate is clear and hose is out of the way crowd loader forward to clip coupler under coupler plate, crowd loader back, make sure that it is in correct location.
- Place in locking pins
- Check that the couple plates have fitted correctly and are securely locked
- Connect the hydraulic hoses

To detach reverse the procedure

THIS PROCEDURE IS TO BE USED IN CONJUNCTION WITH YOUR LOADER/TRACTOR HOOK UP PROCEDURE FOUND IN YOUR LOADER/TRACTOR OWNERS MANUAL

COLLECTION OF STONE

- Lower bucket to the ground keeping base parallel with ground.
- On hard bare ground the bucket may touch the ground.
- On wet or soft ground it is preferred if bucket is about 25mm above ground
- Collecting isolated stone, approach stone when stone meets pick up teeth reel is put in gear once stone is collected reel is disengaged
- Collecting scattered stone lower bucket as previously described – engage reel at approx speed of 40 RPMS, adjust ground speed to achieve clean pick up
- Collecting rowed stone, lower bucket as previously described engage reel at approx 60 RPM adjust ground speed to achieve clean pick up on heavy rows reel springs may need to be exchanged for lighter 8mm springs
- Emptying bucket disengage reel raise bucket and crowd forward, caution must be taken not to overload loader/tractor and must be done on level area, refer to loader/tractor owner's manual
- Lower to ground and continue stone collection
- Caution when travelling keep bucket as close to the ground as practical

SERVICE

Adjusting chain drive

- Remove guard
- Loosen bolts
- Adjust threaded screw so that the chain has 10mm of free play
- Tighten bolts B

Torque sprocket hubs

- Remove guard
- Torque in hex screws
- Replace guard

Torque reel pivot bolts

- Torque 1" UNF Nylock nuts so that arms still pivot freely
- Torque M16 nut to 82 NM requires 24mm socket

Adjust springs

- With reel in location shown so that reel springs have no load on them.
- Loosen locking nuts adjust so that spring coils start to separate lock up locking nuts
- Rotate reel and repeat on opposite side

Adjusting flow control

- If your loader/tractor has a flow control fitted the flow control on The Eliminator maybe closed off
- If your loader/tractor does not have a flow control fitted adjust flow control by rotating lever to achieve correct operating speed

TROUBLE SHOOTING

Stone being thrown out of machine or causing excessive damage to screen general	• Reel speed to high	• Adjust flow control • slow reel speed
Stone jamming in reel	• Incorrect speed • Incorrect spring tension or springs	• Adjust flow control • Adjust spring tension
Excessive dirt in bucket	• Incorrect height • Bucket crowded to far forward	• Adjust height • Adjust crowd
Reel not free running	• Flow control valve faulty	• Contact dealer
Reel not turning	• Flow control to far open • Hydraulic hose around wrong way • Drive chain broken • Hydraulic drive broken	• Adjust flow controller lever • change around • Contact dealer • Contact dealer
Stone catching when emptying	• Reel not free running • Stone caught in reel	• Flow controller • Momentary engage hydraulic to turn reel

SERVICING

INITIAL CHECK LIST BEFORE USING THE ELIMINATOR

1. Tension coupling screws to 20Nm after 10 hours use, then every 100 hours



2. Retention chain, make sure all clear, after 10 hours use, then every 100 hours



3. Hydraulic coupling, male coupling is oil flow in and female coupling is return

4. Grease nipples every 8 hours, main shaft bearings to be greased every 100 hours (If no grease nipples fitted remove bearing caps and repack every two years)



STORAGE

Before storage of The Eliminator, it should be clear of any debris. Chains sprockets to be lubricated to prevent corrosion. Hydraulic system to be depressurised. The eliminator should be stored on hard level ground.

SPECIFICATIONS

Overall Width	2.5 metres
Pick up width	2.1 metres
Weight	1.04T
Height	1.2 metres
Size of loader required	2T lift capacity

CONTACT INFORMATION

Reinhold & Linnie Wehrmann

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Overall dimensions

Weight of the bucket

What is the holding capacity of the bucket

100% of labour & manufacturing is done with in South Australia, by supporting local we are ensuring the community have employment.

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Current flyer info

Weight 1.04t

Capacity of hydraulic motor is 300cc/revolution

18.3cubic inch

95 litres per minute @210 bar

Reel speed 45 rpm

Capacity 1.5T

The Eliminator eliminates

- Header damage
- Scattered rock heaps
- Hard work
- Hay plant damage
- Back pain
- Minimises crop damage by less traffic

Heavy duplex roller chain drive

Heavy duty roller bearing

Manufacture is back by ISO certification,

Dimensions of 8ft bucket

Weight – 1.04T

350cc hydraulic motor

18.3 cubic inch

95 litres per minute at 210 bar

Reel speed 45RPM

Capacity 1.5T

Fence line side wing

Solid coupler plate or removable coupler plate

Springs - ??? or heavy duty

Dimensions of 10ft bucket

Order of Parts list