



# John Berends Implements Pty Ltd

AGRICULTURAL ENGINEERS

## OPERATOR'S MANUAL PARTS LIST



### Rippers

**PRODUCT NO.**

0024	Single Tine Ripper, suit compact tractor 100 x 25 Cat 0/1
0020	Standard Single Tine Ripper, 150 x 32mm Cat 1/2
0021	Heavy Duty Single Tine Ripper 150 x 50mm Cat 2
0022	Pipelaying Attachment Fits 0020 and 0021
0029	Pipelaying Attachment Fits 0024
0144	Mole Drainer
0018	2 Tine Deep Ripper - Curved Tines, digs to 700mm
0019	3 Tine Deep Ripper - Curved Tines, digs to 700mm
	Deep rippers with more than 3 tines are available upon request.

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# SAFETY



Farm machinery is dangerous if operated incorrectly so please read this manual in its entirety prior to operating the machine.

 No operator, however experienced in farm machinery operation, should attempt to use any machine they have not been competently trained to use. Your local Department of Agriculture can help you with training, as can most Occupational Health and Safety offices, Agricultural schools and colleges and farm equipment dealerships.

 All instructions relating to tractor safety as per the tractor operators manual should be followed. When making any machine adjustments, stop the tractor engine first and wait for all moving parts to stop. Maintain the tractor to ensure it remains safe to use. Do not operate faulty or damaged equipment.

 Extreme caution should be taken when fitting equipment to the tractor's three point linkage. Avoid standing between the implement and the tractor when coupling machinery.

 All machines should be mounted and retained correctly. All guards must be kept in place and correctly maintained. P.T.O. shafts must be correctly attached and secured to both the tractor and the machine. Decals must be visible and legible at all times. Keep well clear of all moving parts.

 Keep all people and animals at a safe distance from all moving parts. Children must not be allowed to operate this equipment and all passengers must have the same level of protection as the operator.

 Wear protective clothing where appropriate.

 Never operate when tired (not alert) or in poorly lit areas and stay alert for humps and other hidden hazards. Remove all timber, rocks and foreign objects prior to operation.

 Avoid operating the machine in wet conditions.

-  Exercise extreme caution when changing direction on hills. Avoid sudden movement, sudden breaking, high speeds, rough terrain and steep slopes.
-  If machine starts to vibrate, stop tractor using method as described in the operation section.
-  After striking a foreign object or if there are doubts about the performance of the machine, stop the tractor as described and check if machine is making excessive noise.
-  Extreme caution must be taken when working in public areas (roadsides etc). It is recommended that flaps and chains are fitted in these areas. These are available as optional extras. Rear flaps are compulsory in public areas.
-  Do not modify this equipment in anyway, or use it for any other purpose than it was designed to do.
-  Never work under unsupported machines or adjust unsupported machines. Do not enter the danger zone where a load being carried by a machine could fall on you, for example a round bale from a bale fork, a log from a carryall or material from a rear end loader.

These instructions should be used in conjunction with any local regulations regarding safety ie OHS.

**Maintenance is essential for safe operation. Ensure maintenance is carried out regularly by people qualified to do so. This is of particular importance on P.T.O. drive machines where driven parts can fly off at high speed if wearing parts are not properly maintained.**

**FAILURE TO FOLLOW THESE INSTRUCTIONS AND PROCEDURES MAY RESULT IN EQUIPMENT MALFUNCTION, OR DAMAGE, SERIOUS INJURY OR EVEN DEATH.**

**INTRODUCTION:**

This manual was developed specifically for the machine you have purchased. The information within is to assist you in preparing, operating and maintaining your machine. Please read and understand the contents of the manual completely before attempting to operate your machine, paying special attention to all safety details. With our policy of continuous improvement, products and specifications may change without notice and without incurring the obligation to install such changes on any unit previously delivered.

**Rippers**

There are three different single tine rippers available. The compact ripper is 25mm thick and has been designed to fit small compact tractors. It is able to accommodate the smaller 'red' pipelayer. The standard single tine ripper is 32mm thick and the heavy duty single tine ripper is 50mm thick. Both these models can be fitted with a pipelayer which can take a 2" poly pipe. All models have reversible points and can be upgraded to heavy duty points if necessary. The deep ripper has the option of two or three tines made of 32mm semi high tensile steel. Machines with more than three tines are available upon request. The tines are adjustable and are fitted with shearbolt protection. The tines are fitted with hardened teeth, similar to those fitted to the buckets of industrial loaders.

**MACHINE SPECIFICATIONS**

<b>RIPPERS</b>	<b>Compact S/Tine</b>	<b>Std S/Tine</b>	<b>HD S/Tine</b>	<b>Mole Drainer</b>	<b>Deep Ripper</b>
Main Tine Section	100 x 25mm	150 x 32	150 x 50	300 x 20	150 x 32
Overall height	1.10m	1.20m	1.30m	1.3m	0.95m
Maximum working depth	490mm	500mm	700mm	700mm	650mm
Tractor H.P.	16-25 H.P.	25-60 H.P.	60 H.P. +	40HP	70 H.P. +
Tractor CAT connection	Cat 1	Cat 1/2	Cat 2	Cat 1/2	Cat 2
Nett Weight (kg)	30	65	100		-

**WARRANTY**

John Berends Implements P/L warrants each new product sold to be free from defects in material and workmanship, under normal use and service, as outlined in the operators manual, for a period of 12 months.

This warranty is void if any damage to the machine has been caused by misuse or non genuine parts have been used or any repairs have been made by any persons other than authorised dealer service personnel.

The manufacturer/dealer is not obligated to any transportation charges incurred in the repair or replacement of parts.

This warranty does not exclude any condition or warranty implied by the Trade Practices Act 1974 or any other legislation which implies any condition which cannot be excluded.

## Safety Features

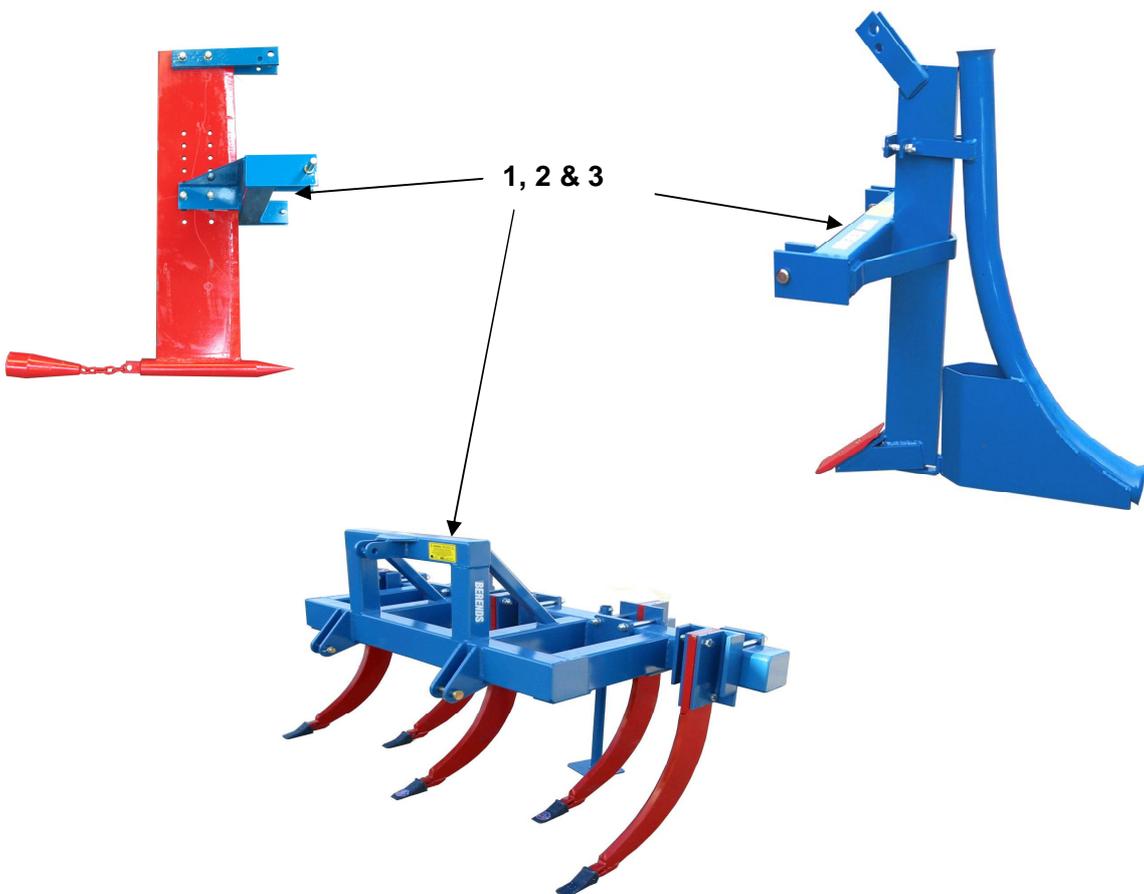
### 1. SERIAL NUMBER (Decal)



### 2. WARNING DECAL



### 4. BERENDS DECAL



## **ASSEMBLY**

Line up the lower linkage arms with the linkage pins of the implement, slide the linkage arms onto the pins and secure with lynch pins. Attach the top link to the implement. In the case of the ripper, line the linkage arms between the lower linkage plates, slide the linkage pins through the holes and secure with lynch pins. Attach the top link to the ripper. The implement should not be used on tractors greater than that specified in the 'machine specification' section of this manual. Ensure that anti-sway devices are connected to prevent implement moving from side to side. These could be chains or stabiliser bars. Ensure that tractor drawbar does not interfere with the ripper. It may need to be removed. Vibration can loosen bolts, so check regularly that all are secure.

## **OPERATION**

Once all safety procedures have been followed, start the tractor and raise the implement off the ground. Always travel in a straight line when ripping. Note: Rippers that have been bent and/or twisted are not covered by warranty.



**Caution: do not operate near underground services.**

If working on steep slopes, try to work down hill or across the slope. Select a low gear when ripping. Different soil types will determine how deep you can rip. You may need to make more than one pass to achieve maximum depth.

## **OPERATION - PIPELAYER**

**Single tine models only.** Ensure the pipelayer is connected securely. The lower leg of the pipelayer must hook in under the ripper tine. Only use the pipelayer in pre-ripped ground. This will ensure that there are no obstructions when laying the pipe.

## **STOPPING**

Lower the machine, stop the tractor engine (removing the ignition key) and apply the park brake. Ensure that the implement is either on the ground or well supported when not in use.

## **MAINTENANCE**

When doing any type of maintenance on this machine, always follow the safety steps described in this manual. Service should only be carried out by qualified personnel. Use only authorised genuine parts for replacement.

The implement must be adequately supported under its body on all 3 point linkage machines (Make certain it cannot fall).

Check all bolts and nuts are tight. Replace (or reverse) points when worn.

# SPARE PARTS

ORDER SPARE PARTS THROUGH YOUR ORIGINAL SUPPLIER OR YOUR LOCAL JOHN BERENDS IMPLEMENTS DEALER.

Always quote the machine serial No. or product No., spare part number and its part name as stated in the operator's manual.

## Glossary of terms

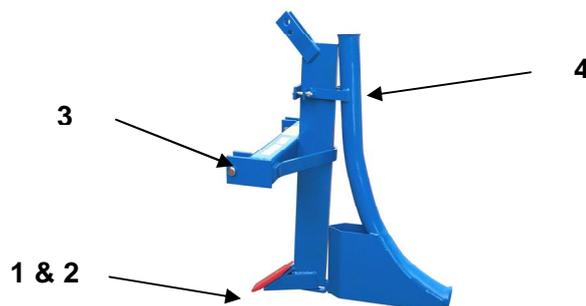
c/w = Complete with  
 sw = Spring Washer  
 n.s.s. = Not serviced separately  
 a.r. = As required  
 fw = Flat Washer

**Compact Ripper 0024**

**Standard Ripper 0020**

**Heavy Duty Ripper 0021**

Key No.	Part No.	Quantity	Description
1	1530	1	Reversible point 75 x 16 x 225 (supplied as new on all rippers)
	1531	1	Heavy duty rev. point 75 x 25 x 225 (optional for all rippers)
2	1534	2	Bolt and nut suit point 1530
	1533	2	Bolt and nut suit point 1531
3	1969	2	Cat 1 push through pin (suits 0020 & 0021)
	1967	2	Cat 1 bolt on pin (suits 0024)
4	1540	1	Leg only (inc. foot & point) – 25mm x 100 x 850 (compact)
	1535	1	Leg only (inc. foot & point) – 32mm x 150 x 1000 (standard)
	1537	1	Leg only (inc. foot & point) – 50mm x 150 x 1200 (heavy duty)



**Deep Ripper 2 and 3 tine (0018/0019) – Other sizes on request**

Key No.	Part No.	Quantity	Description
1	3250	2 or 3	Point
2	3251	2 or 3	Retaining pin suit point
3	1972	2	Cat 2 push through pin
4	1539	2 or 3	Deep ripper leg c/w clamp & bolt/nuts
5	1476	2 or 3	Clamp brackets (one pair per tine)
6	1477	2 or 3	Clamp plate
7	1478	8 or 12	Clamp mounting bolts (4 per tine)
8	1479	4 or 6	Tine mounting bolts (2 per tine)
9	1480	1	Stand

