



# BROWNS

EST: 1830

Agricultural Machinery Co. Ltd

Manufacturers of Farm Implements & Machinery

## ***SLIT MASTER***

HYDRAULIC FOLDING - PASTURE AERATOR

Owners Illustrated Instruction Book & Parts List

Grovebury Road, Leighton Buzzard, Bedfordshire. LU7 4UX. UK.

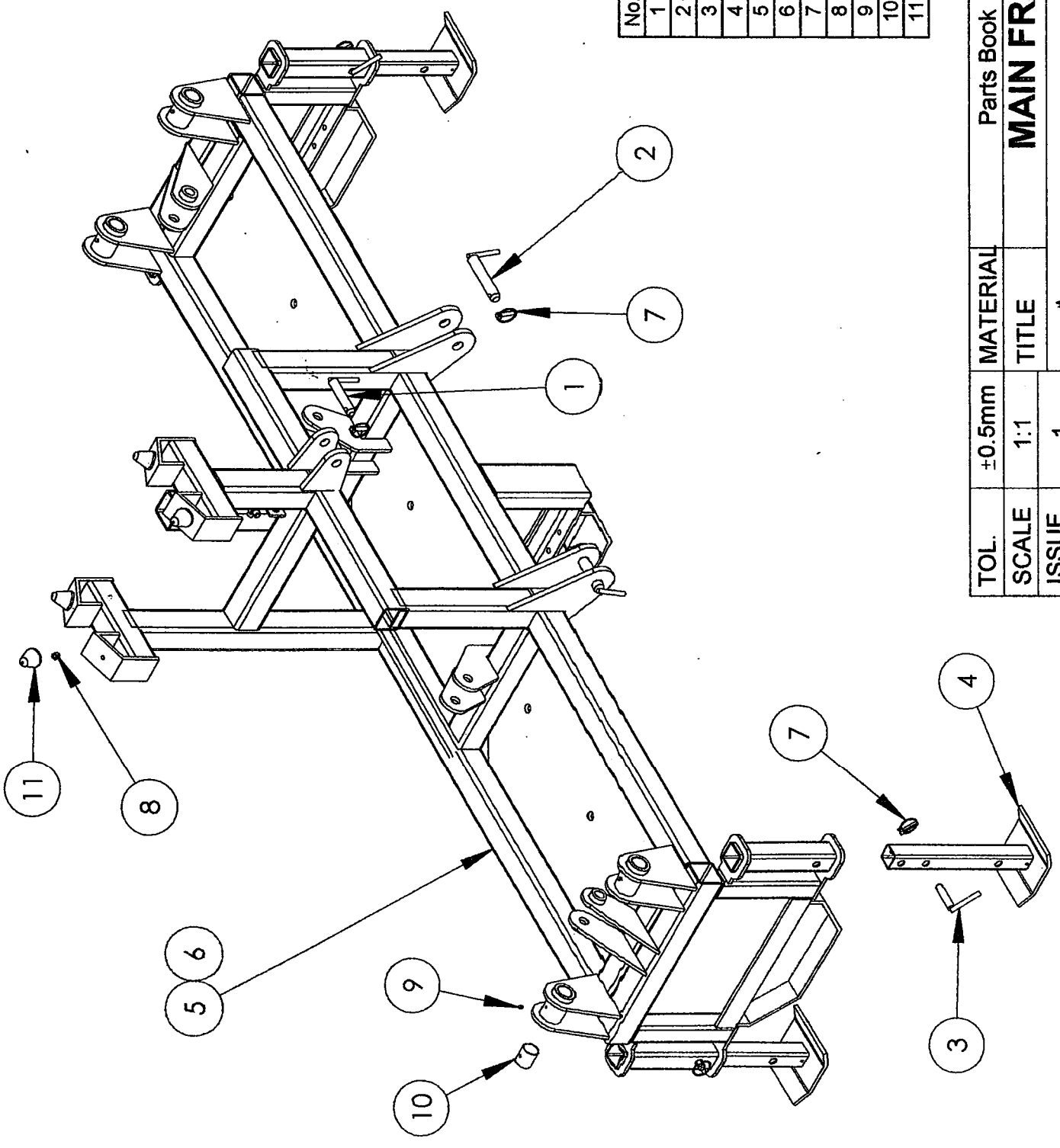
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## INTRODUCTION

Please read this booklet carefully and understand the safety warnings before operating the machine. It has been written to help you benefit from the full versatility and potential of your Browns machine. The machine has been designed to give many years of satisfactory service and will do so if properly fitted, used and maintained.

The company is continually striving to improve its products and therefore reserves the right to make improvements or changes without incurring any obligation to change any of its products previously sold. E & O.E. March 2005.



No.	Part No.	Description	Qty
1	50075	TOP LINK PIN	1
2	50102	LOWER LINK PIN	2
3	51673	LEG PIN	4
4	51918	LEG	4
5	53357	MAIN FRAME 6.0m	1
6	53366	MAIN FRAME 4.5m	1
7	70033	LINCH PIN	7
8	70011	M10 NYLOCK NUT	4
9	71055	GREASE NIPPLE	4
10	71675	BUSH MB4050DX	8
11	71741	RUBBER BUFFER	4

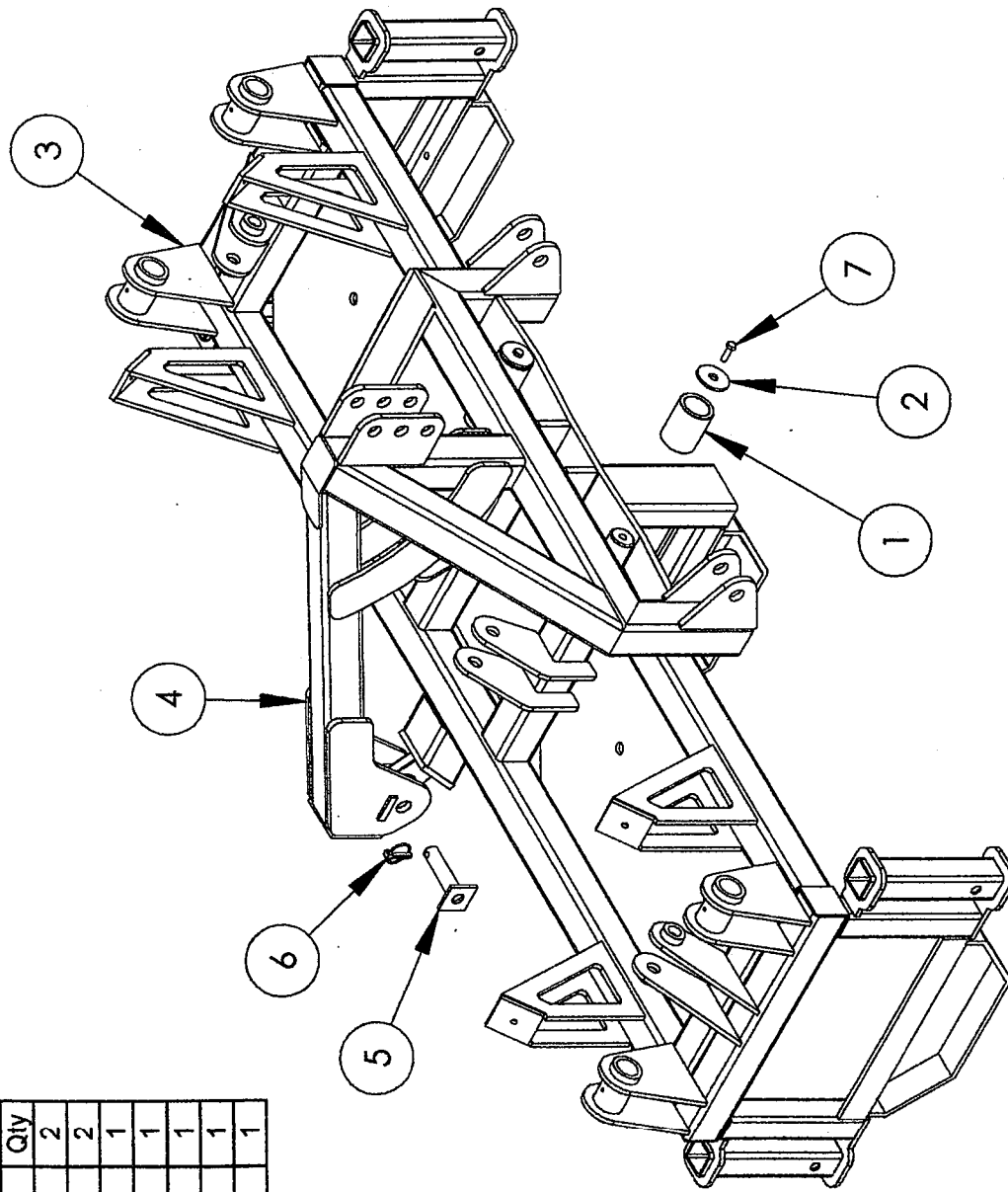
TOL.		±0.5mm	MATERIAL	Parts Book
SCALE	1:1		TITLE	<b>MAIN FRAME</b>
ISSUE	1			
DATE	3/3/2005			
DRAWN	D.Hanson			




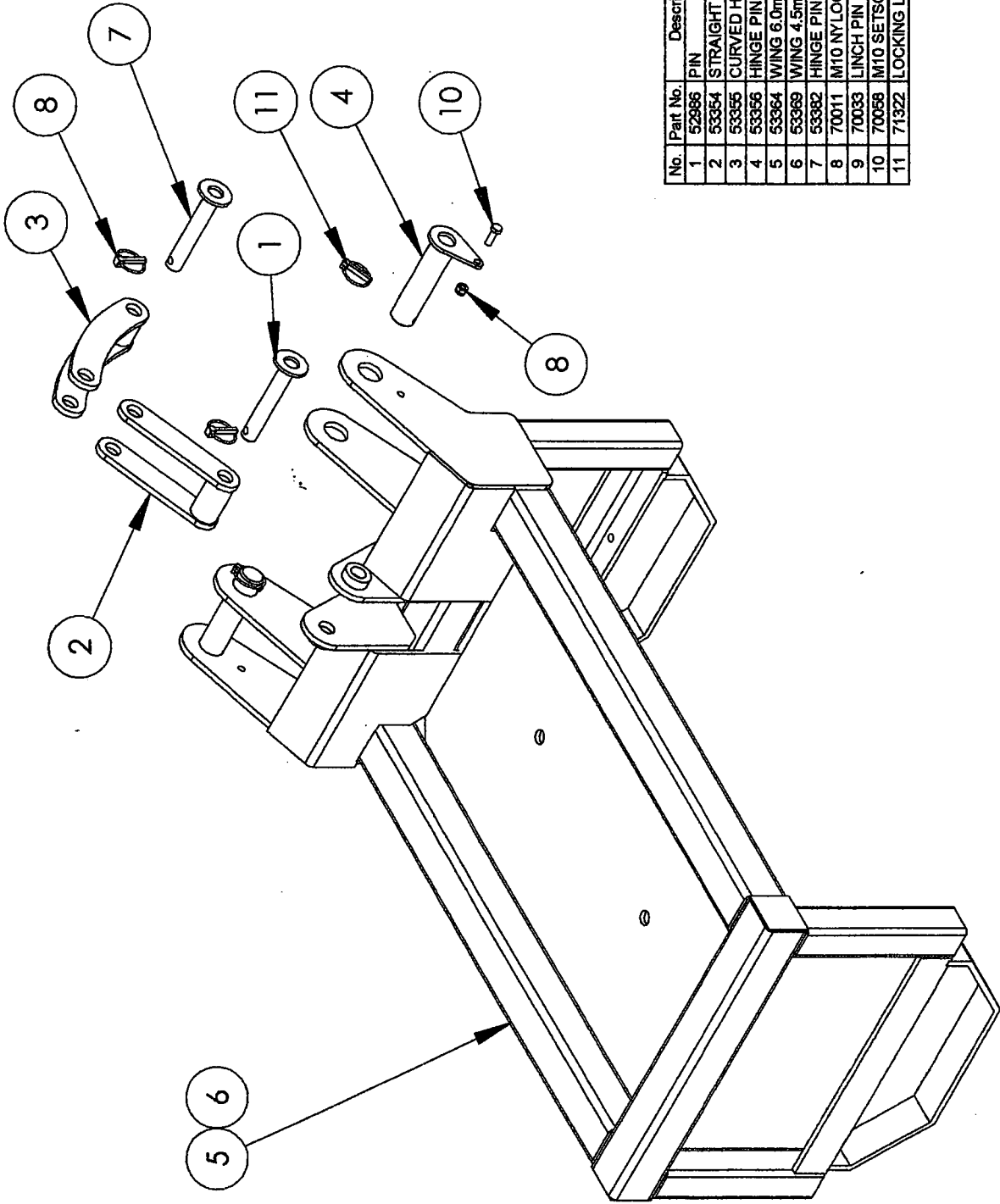
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Part No. **Slitmaster**

No.	Part No.	Description	Qty
1	17312	ROLLER	2
2	17313	WASHER	2
3	53371	MAIN FRAME	1
4	53374	FRONT LINKAGE	1
5	53377	FRONT PIN	1
6	70033	LINCH PIN	1
7	70242	M16 SETSCREW	1



TOL.	+0.5mm	MATERIAL	Parts Book
SCALE	1:1	TITLE	<b>4.5m FRONT MOUNTED FRAME</b>
ISSUE	1		Part No. <b>Slitmaster</b>
DATE	3/9/2005		Browns Agricultural Machinery Company Limited Mentmore Road - Leinslade - Leighton Buzzard Beds. LU7 7NX. Tel:- (01525) 375157
DRAWN	D.Hanson		



No.	Part No.	Description	Qty
1	52986	PIN	2
2	53354	STRAIGHT HINGE	2
3	53355	CURVED HINGE	2
4	53356	HINGE PIN	4
5	53364	WING 6.0m	2
6	53369	WING 4.5m	2
7	53382	HINGE PIN	2
8	70011	M10 NYLOCK NUT	4
9	70033	LINCH PIN	4
10	70058	M10 SETSCREW	4
11	71322	LOCKING LINCH PIN	4

TOL.	±0.5mm	MATERIAL	Parts Book
SCALE	1:1	TITLE	<b>WING ASSEMBLY</b>
ISSUE	1		
DATE	3/10/2005		
DRAWN	D.Hanson		

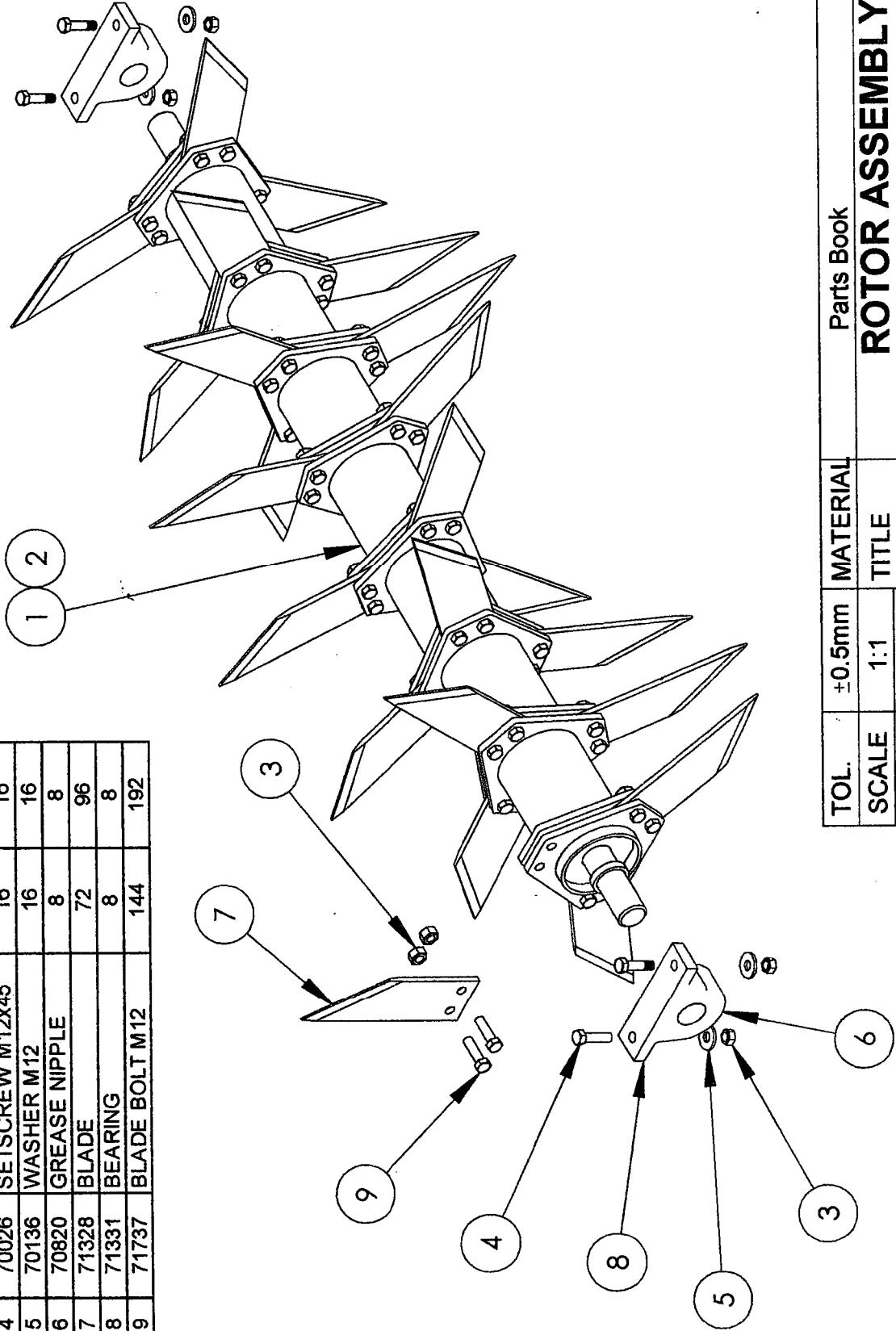



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Part No. **Slitmaster**



No.	Part No.	Description	4.5 m Qty	6.0m Qty
1	52294	ROTOR ( 6.0m )		4
2	52300	ROTOR ( 4.5m )	4	
3	70012	NUT M12 NYLOCK	160	208
4	70026	SETSCREW M12x45	16	16
5	70136	WASHER M12	16	16
6	70820	GREASE NIPPLE	8	8
7	71328	BLADE	72	96
8	71331	BEARING	8	8
9	71737	BLADE BOLT M12	144	192



TOL.	±0.5mm	MATERIAL	Parts Book
SCALE	1:1	TITLE	<b>ROTOR ASSEMBLY</b>
ISSUE	1	Part No. <b>Slitmaster</b>	
DATE	3/3/2005	Browns Agricultural Machinery Company Limited Mentmore Road - Linslade - Leighton Buzzard Beds. LU7 7NX. Tel: (01525) 375157	
DRAWN	D.Hanson		

## OPERATION FRONT MOUNTED SLITMASTER

The Browns Front Mounted Aerator is designed to be mounted on the front linkage of the tractor. The linkage arrangement means that the machine is still pulled by the tractor from a single point. This ensures the aerator works efficiently without extra stresses and more importantly if a conventional linkage were to be used the effect would be that the tractor would be constantly trying to ride up over the aerator. The aerator can be mounted onto the rear of the tractor but it is advisable to reverse the direction of the slitting tine so an even slit with minimum effort is still achieved.

The front linkage arms of the tractor should be of sufficient size to cope with the aerator and must be double acting so it can add weight to the aerator and keep it at a correct depth required. The wing sections are kept in the horizontal position by their double acting rams, if excessive leakage is found in the tractor spool and wing position is not maintained, then check valves should be fitted in the hydraulic lines. In extreme cases stop valves can be used.

## FRONT AND REAR MOUNTED SLITMASTERS

To operate the aerator connect to the front three point linkage and connect the hydraulic pipes, return to the tractor and raise the machine, the parking stands can now be placed in their working position. Return to the tractor and lower the wings, the top linkage can now be altered so the aerator is level to the ground. It is advisable not to go faster than 8 M.P.H. in work; the skids on the bottom of the machine will dictate the maximum depth and always be aware of large stones or obstructions. Do now turn corners with the machine in the working position.

## HYDRAULIC SYSTEM

1. THE HYDRAULIC SYSTEM IS PRESSURISED.
2. WHEN CONNECTING HYDRAULIC CYLINDERS, MAKE SURE THAT THE HYDRAULIC HOSES ARE CORRECTLY CONNECTED.
3. WHEN CONNECTING HYDRAULIC HOSES TO THE TRACTORS HYDRAULIC SYSTEM, MAKE SURE THAT ALL PRESSURE HAS FIRST BEEN RELEASED FROM THE HYDRAULICS OF BOTH THE TRACTOR AND THE IMPLEMENT.
4. WHEN THERE ARE FUNCTIONAL HYDRAULIC CONNECTIONS BETWEEN THE TRACTOR AND THE MACHINE, ALL COUPLING SLEEVES AND PLUGS MUST BE MARKED TO PREVENT OPERATING ERRORS. IF CONNECTIONS ARE SWITCHED, THE FUNCTIONS ARE REVERSED (e.g. LIFTING AND LOWERING). THIS CAN CAUSE ACCIDENTS.
5. HYDRAULIC HOSES MUST BE CHECKED REGULARLY, AND REPLACED IF THEY ARE DAMAGED OR WORN, THEY MUST BE REPLACED. REPLACEMENT HOSES MUST CONFORM TO THE TECHNICAL REQUIREMENTS OF THE MANUFACTURER.
6. WHEN TRACING LEAKAGES, SUITABLE AIDS SHOULD BE USED TO PREVENT INJURY.
7. FLUID LEAKING UNDER HIGH PRESSURE CAN PENETRATE THE SKIN AND CAUSE SERIOUS INJURY. IF SUCH INJURY OCCURS, CONSULT A DOCTOR IMMEDIATELY.
8. BEFORE CARRYING OUT ANY WORK ON THE HYDRAULIC SYSTEM, REST THE MACHINE ON THE GROUND, DEPRESSURISE THE SYSTEM AND SWITCH OFF THE ENGINE.

## MAINTENANCE

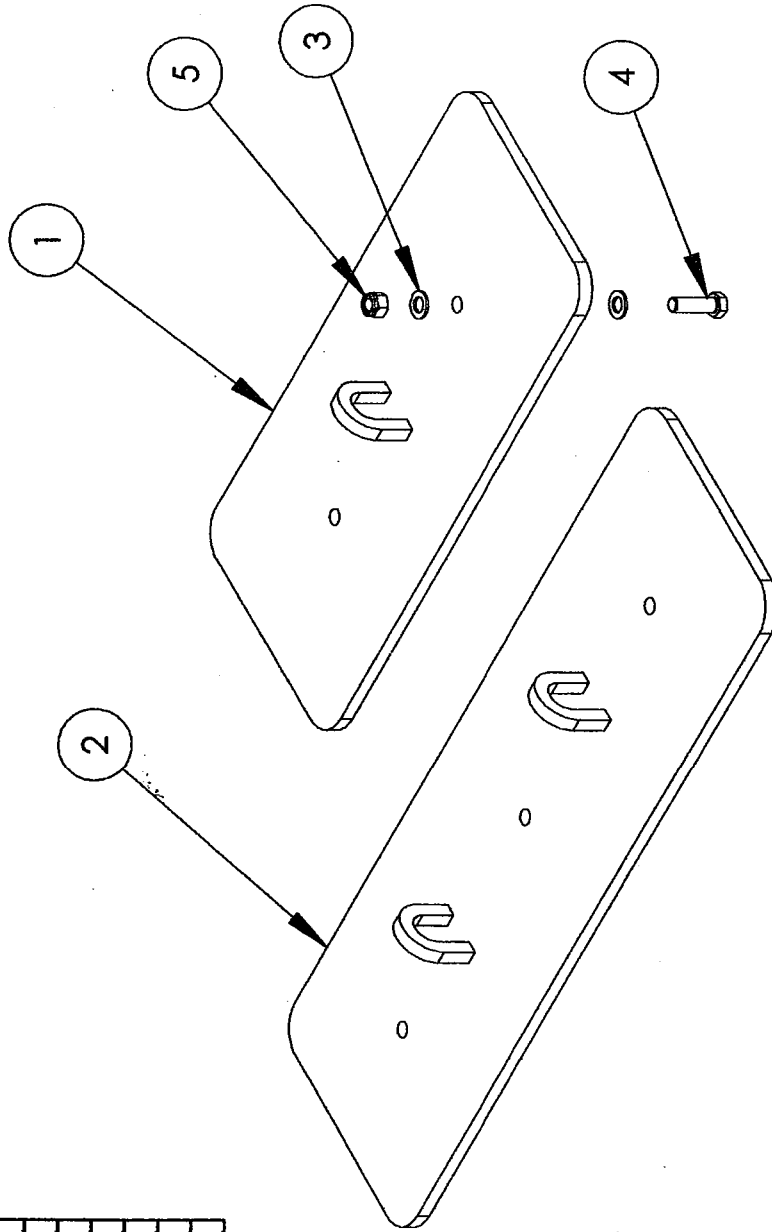
1. REPAIR, MAINTENANCE AND CLEANING WORK AND THE CORRECTION OF MALFUNCTIONS MUST ONLY BE CARRIED OUT WHEN THE DRIVE IS TURNED OFF AND THE ENGINE IS AT A STANDSTILL. REMOVE THE IGNITION KEY.
2. NUTS AND BOLTS MUST BE CHECKED REGULARLY FOR TIGHTNESS AND TIGHTENED IF NECESSARY.
3. WHEN CARRYING OUT MAINTENANCE WORK ON THE MACHINE IN A LIFTED POSITION, IT MUST ALWAYS BE SUPPORTED BY SUITABLE JACKS.
4. WHEN REPLACING PARTS WITH CUTTING EDGES, USE SUITABLE TOOLS AND GLOVES.
5. GENUINE REPLACEMENTS PARTS MUST BE USED.
6. GREASE ALL BEARINGS AND JOINTS AT LEAST ONCE A WEEK.

## SAFETY WARNINGS

1. ALWAYS KEEP CLEAR OF MOVING PARTS.
2. ENSURE THAT THE WARNING LABELS ARE CLEAR ON THE MACHINE.
3. ALWAYS OBTAIN FULL WORKING KNOWLEDGE OF A MACHINE BEFORE YOU OPERATE IT.
4. NEVER ALLOW ANYBODY TO RIDE ON THE MACHINE WHILST IN TRANSPORT OR STAND NEAR THE MACHINE WHILST IN OPERATION.
5. NEVER ALLOW ANYBODY TO WORK UNDER A RAISED MACHINE.
6. ENSURE THE TRACTOR IS OF SUFFICIENT SIZE TO PROVIDE ADEQUATE STABILITY WHEN IN OPERATION.
7. ALWAYS REPLACE BROKEN OR DAMAGED PARTS IMMEDIATELY USING GENUINE REPLACEMENTS.
8. ALWAYS ENSURE THE ENGINE IS SWITCHED OFF BEFORE ANY MAINTENANCE WORK IS CARRIED OUT.
9. ALWAYS ENSURE OPERATORS ARE FULLY TRAINED BEFORE OPERATING MACHINERY AND ENSURE ALL OPERATOR BOOKS ARE READILY AVAILABLE.
10. FOLLOW ALL MAINTENANCE REQUIREMENTS STATED IN THE BOOKLET.
11. BALLAST WEIGHTS MUST ALWAYS BE ATTACHED IN THE PRESCRIBED WAY AT THE DESIGNED ATTACHMENT POINTS.
12. WHEN YOU USE PUBLIC ROADS, MAKE SURE YOU OBSERVE THE RELEVANT TRAFFIC REGULATIONS.
13. PERSONS ARE NOT ALLOWED TO ENTER THE WORKING AREA.
14. POWER OPERATED ELEMENTS (e.g. FOLDING ARMS) CONTAIN DANGER POINTS WHICH CAN CAUSE INJURY BY CRUSHING AND SHEARING.
15. HYDRAULIC CONTROLS MUST ONLY BE OPERATED IF NO PERSONS ARE IN THE DANGER AREA.
16. BEFORE LEAVING THE TRACTOR, REST THE MACHINE ON THE GROUND, SWITCH OFF THE ENGINE AND REMOVE THE IGNITION KEY.
17. TAKE CARE NOT TO EXCEED THE MAXIMUM PERMITTED LOAD FOR THE TRACTOR HITCH COUPLING.
18. MAKE SURE THAT NOBODY ENTERS THE AREA BETWEEN THE TRACTOR AND THE IMPLEMENT UNLESS THE TRACTOR IS PROTECTED FROM ROLLING BY THE PARKING BRAKE AND/OR WHEEL BLOCKS.

KIT No. 53378 BALLAST 4.5m			
No.	Part No.	Description	Qty
1	53379	BALLAST 4.5 WING	2
3	70073	M20 WASHER	8
4	70411	M20 BOLT	4
5	70412	M20 NYLOCK NUT	4
TOTAL WEIGHT = 115 kg			

KIT No. 53380 BALLAST 6.0m			
No.	Part No.	Description	Qty
2	53381	BALLAST 6.0 WING	2
3	70073	M20 WASHER	12
4	70411	M20 BOLT	6
5	70412	M20 NYLOCK NUT	6
TOTAL WEIGHT = 160 kg			



TOL.	±0.5mm	MATERIAL	Parts Book
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Part No.  
**Slitmaster**



## **EC DECLARATION OF CONFORMITY**

**Manufacturer** : Browns Agricultural Machinery Co. I.td.  
**Description of Machinery** : Slitmaster 4.5m Hydraulic Folding  
**Model Number** : 65730

**This machine complies with EC Directives, Transposed Harmonised Standards, National Standards and Technical Specifications as follows:**

89/392/EEC 91/386/EEC 93/44/EEC 93/68/EEC EN 292 pr EN 691

**The machinery has been designed taking into account the essential Health & Safety Standards as detailed in the Supply of Machinery (Safety Regulations) 1992.**

**For and on behalf of the Manufacturer**

**Name** : J. W. G. BROWN  
**Status** : MANAGING DIRECTOR

**The above machinery taking into account the state of art, complies with or is designed and constructed so far as possible, to comply with the relevant Health & Safety requirements as indicated in the Technical file.**

**THE COMPANY IS CONTINUALLY STRIVING TO IMPROVE ITS PRODUCTS AND RESERVES THE RIGHT TO MAKE IMPROVEMENTS OR CHANGES WITHOUT INCURRING ANY OBLIGATION TO ALTER ANY OF ITS MACHINES PREVIOUSLY SOLD.**