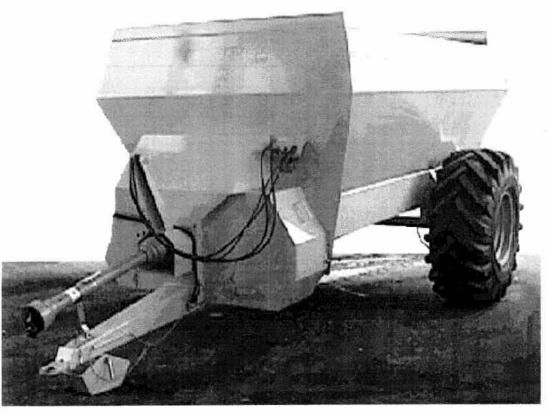
powerspread Dairy

OPERATORS MANUAL & PARTS LISTING

"Original instructions"





Shelbourne Reynolds Engineering Ltd Stanton **Bury St Edmunds** Suffolk IP31 2AR England

Telephone: (01359) 250415 Fax: (01359) 250464

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ISSUE 16 18.08.2010

Dealer Pre-delivery / Installation check and warranty registration - Powerspread

PLEASE INITIAL APPROPRIATE COLUMN FOR EACH ITEM UNDERTAKEN Machines assembly	Checks OK	Adjusted
Check in general that nuts & bolts are tight.		
Check paintwork & finish.	***************************************	***************************************
Drive line		
Check chains are tensioned correctly.		
Check the PTO shaft length is compatible with the tractor.		
Rotate the auger & check there are no unusual scratching or knocking sounds.		
Lubrication		L
Ensure the chain-oiler system (Contractor only) is working correctly, & the chains are pre-greased.		
Lubricate all grease points.		
Adjustments		The second secon
Rotate the impeller, check it rotates freely, and is clear of the door and drip tray. Adjust impeller blades (Dairy) or impeller adjuster studs (Contractor) as required.		
Hydraulics		
Check hydraulic system for leaks.		
Check operation of all hydraulic services.		
Ensure the hoses are not taught when connected to the tractor.		
Wheel & tyres		
Check tyre pressures.		
Check wheel nuts for correct torque setting.		
Braking system		L
Check brake ram operation & adjustment.		
Check operation of handbrake.		
Check braking system for oil leaks.		***************************************
Safety		L
Ensure that all safety guards & decals are fitted.		
Manual		<u> </u>
Ensure that an operator's manual is supplied with the machine.	T	
Customer Instruction		L
Explain the correct setting & operation of the machine to the customer.		
Ensure the machine is correctly attached to the customer's tractor.		
Ensure the maintenance schedule is explained to the customer.		
Ensure the lubrication & grease points are indicated to the customer.		***************************************
Ensure all safety precautions & warning decals are explained to the customer.		****
Ensure the warranty policy is explained to the customer.		
Ensure that the operators manual is handed to the customer.		

For specific details please refer to the operators manual.



Dealer's pre-delivery/installation check IMPORTANT

All items listed on the left must be checked, and adjusted if necessary. The person conducting the inspection should initial each item in the space provided, indicating whether or not adjustments were required. In event of additional work being needed, details should be given in the additional work / discrepancy box, located at the bottom of this sheet, or on a separate sheet if required. When the inspection is complete, THIS FORM MUST COPIED & RETURNED TO:- Shelbourne Reynolds Engineering within 21 days of the sale, otherwise the invoice date to the dealer will be

	Post / Zip code:
	Post / Zip code:
Tel No, Home / Office:	Mobile:
SERIAL NUMBER:	MACHINE NUMBER:
MODEL:	
Dealer signature:	
Print Name:	
Customer's Signature:	
Print Name:	
The purchasers signature certifies the adequate instruction was received a as stated in the operators manual.	nat the machine was delivered in a satisfactory condition and that is to its correct operation, safety requirements and maintenance
Additional work / discrepancies:	

This page must be faxed or e-mailed to Shelbourne Reynolds Engineering ltd. Fax No: - +44 (0)1359 250464. E-mail: - warranty@shelbourne.com

EC Declaration of conformity for machinery

(Machinery Directive 2006/42/EC, Annex II., sub. A)

Manutacturer :	Snelbourne	Reynolds Engine	ering Ltd	J.
Address:	Shepherds (Stanton, Bury St Edm Suffolk. England. IP31 2AR	Grove Industrial e nunds,	state,	
Name and address authorised to comp				pean Community/EEA) on request):
Name :	Mr. Neil Smi	ith		
Address :	As stated ab	ove.		
Herewith we declare	e that :	Make:	Pov	verspread Dairy
		Model:		
		Serial No.:		
• is in conformi		levant provisions	of the M	fachinery Directive (2006/42/EC)
Neil Smith Director				
Place : Stanto	on, England.	Dat	e :	

OPERATORS/PARTS MANUAL

CONTENTS

Section 1 1.1 1.2 1.3 1.4 1.5	INTRODUCTION Foreword Improvements and changes Service Parts Machine Identification Warranty
Section 2 2.1 2.2 2.3 2.4 2.5 2.6	SAFETY PROCEDURES Accident prevention Before starting the machine The machine in the field Leaving the machine Servicing the Powerspread Spreader attachment and transportation
Section 3	SPECIFICATION AND DESCRIPTION
Section 4 4.1 4.2 4.3 4.4	TRANSPORTATION AND SPREADER ATTACHMENT Attaching spreader to tractor Connection of hydraulic hoses for discharge door ram Connection of hydraulic hose for brake ram Braking system and handbrake
Section 5 5.1 5.2 5.3 5.4	FIELD OPERATION AND SPREADING General spreading information Loading the Powerspread Discharge rate Foreign objects
5.5 5.6 5.7 5.8 5.9	Door opening Semi solid materials/Lagoon scrapings Solid materials Shear bolt protection Spread pattern
5.5 5.6 5.7 5.8	Door opening Semi solid materials/Lagoon scrapings Solid materials Shear bolt protection
5.5 5.6 5.7 5.8 5.9 Section 6 6.1 6.2 6.3 6.4 6.5	Door opening Semi solid materials/Lagoon scrapings Solid materials Shear bolt protection Spread pattern ADJUSTMENTS AND MAINTENANCE Setting impeller blades Drive chain tensioning Shear bolts Washing down the Powerspread Tyre pressures

SECTION 1:

INTRODUCTION

1.1 FOREWORD

This manual will assist the operator to set, operate and service the Shelbourne Reynolds Powerspread Dairy to give safe, efficient and optimum spreading throughputs. It should be read carefully before putting the machine to work. Later sections illustrate and list all relevant spare parts.

The Powerspread Dairy manure spreader has a capacity dependent on material of 7250 litres/1600 gallons.

The machine has been designed to spread all types of material from thin slurry, to the heaviest farmyard manure.

As with all machinery, routine maintenance is a necessary condition for long life and it will repay the operator to read this manual and to follow the operating and maintenance instructions carefully.



1.2 IMPROVEMENTS AND CHANGES

Shelbourne Reynolds Engineering are continually improving their products to meet the farmers needs and therefore reserve the right to make improvements and changes when practical to do so, without incurring any obligation to make changes and additions to equipment which has been sold previously.

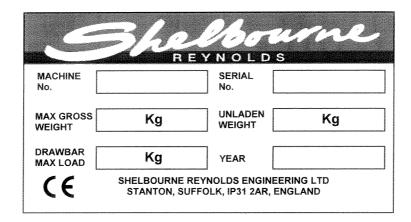
1.3 SERVICE PARTS

Use guaranteed and genuine Shelbourne Reynolds Engineering service parts on Shelbourne Reynolds machinery to ensure maximum life and best performance. These are available through your Shelbourne Reynolds Engineering dealer.

When ordering service parts always quote the model, serial number and machine number.

1.4 MACHINE IDENTIFICATION

The serial and machine numbers of the Powerspread Dairy spreaders are printed on a plate located on the left hand side of the main drawbar beam.



1.5 SHELBOURNE REYNOLDS ENGINEERING LTD - WARRANTY TERMS AND CONDITIONS TO THE PURCHASER

GENERAL

This warranty will become available to you when you have paid for the equipment and returned, duly completed, the delivery and warranty registration forms. It will expire on the anniversary of purchase from the dealer. After that date Shelbourne Reynolds will have no further liability under this warranty to you except in respect of claims already notified. This warranty is not transferable and is available only to the original purchaser from our dealer. In the case of purchasers having leasing or similar arrangements the first user shall be deemed the original purchaser and you shall be deemed to have paid for the equipment.

USE AND MAINTENANCE

- 2. To maintain the benefit of the warranty throughout the twelve-month period you must have the machine serviced in accordance with our recommendations and use the machine properly. If on inspection the machine appears to have been either misused, overloaded, improperly operated, neglected, not properly maintained, altered or repaired without our consent this will invalidate the warranty. We shall have no further liability under it to you at all. (If you require any guidance as to use you should contact the dealer.)
- 3. Our liability under this warranty is dependent upon your making the equipment and facilities available, for inspection and testing.
- 4. In this warranty the expression, "defective product" means any part of the equipment you have purchased which shows evidence of a defect in the materials, design (due regard being given for the state of the art at the time we designed it) or Shelbourne Reynolds' workmanship.

Wearing parts, such as chain tension blocks, are excluded. Parts not manufactured by Shelbourne Reynolds, for example wheels and tyres, are also excluded.

OUR OBLIGATIONS

5. If you discover a defective product you should contact the dealer from whom your machine was purchased. The dealer will notify us of your claim. Our obligation will then be to either replace, or if we consider it appropriate, repair the defective product. Alternatively, we may arrange for our dealer to carry out this work. YOU MUST NOTIFY THE DEALER OF THE DEFECT WITHIN SEVEN DAYS OF THE DAY ON WHICH IT IS DISCOVERED AND YOU MUST NOT USE THE EQUIPMENT AFTER DISCOVERY. FAILURE TO OBSERVE EITHER OF THESE OBLIGATIONS WILL INVALIDATE THE WARRANTY AS IS APPLIES TO THAT DEFECT. Any defective products replaced must be returned to SRE for inspection.

NO ADMISSION

6. On occasions we may, to preserve goodwill, replace parts even though they are not in our opinion defective. Accordingly, our agreeing to repair or replace a part cannot in any circumstance be deemed an admission that it was defective.

LIMITATIONS

- 7. This warranty shall not apply to products made up in accordance with customer originated designs.
- 8. No warranty, condition or other term implied by statute or common law as to the merchantability or fitness for a particular purpose, is intended or given by this warranty. All such warranties which may apply between Shelbourne Reynolds and yourself are excluded to the fullest extent permitted by law.
- 9. In any case, except in respect of death or personal injury caused by our negligence, we shall not be liable to you by reason of any representation or implied warranty, condition or other term, or any duty at, law or under the express terms of any contract, for the consequential loss or damage (whether for loss or profit or otherwise and including delay in field work, expense incurred for labour, additional or substitute material, rental whatsoever and whether caused by our negligence, the negligence of our employees or agents or otherwise) which arises out of or in connection with the use of the goods by you.
- 10. Time of repair is not of the essence.
- 11. No person or persons are authorised to alter, modify or enlarge this warranty on behalf of Shelbourne Reynolds.
 Shelbourne Reynolds shall not be liable for any failure to comply with any part of the warranty where such failure is due to circumstances beyond their reasonable control, including difficulty in obtaining materials or replacement parts.

CALL OUT CHARGES

13. Shelbourne Reynolds and all dealers reserve the right to make a reasonable charge for call outs made at your request which do not turn out to relate to defective products.

IMPORTANT NOTES

14. The chassis and wheel equipment are designed to carry the maximum load of the model of Powerspread supplied; as stated on the specification plate. The fitting of "greedy boards" around the top of the hopper which enable weight loadings in excess of those specified will invalidate the warranty and Shelbourne Reynolds liability.

YOUR STATUTORY RIGHTS ARE UNAFFECTED.

SECTION 2:

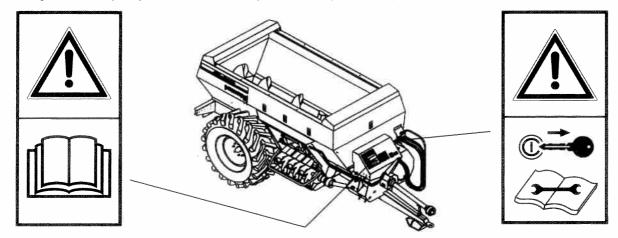
SAFETY PROCEDURES

2.1 ACCIDENT PREVENTION

The following safety instructions are applicable for all chapters of this manual.

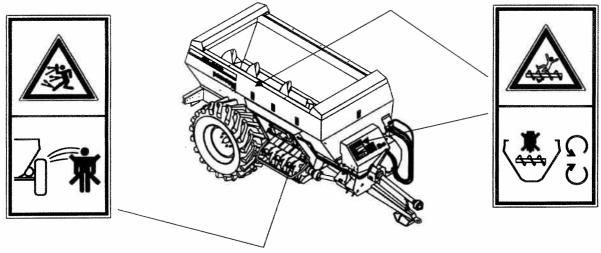
DANGER SYMBOLS

On the machine - the following symbols appear on the machine and are for your safety and the safety of other people. Ensure that you identify each symbol and understand it's warning



Carefully read the operating manual before handling the machine.

Stop the engine and remove the key from the tractor before carrying-out any work on the machine.

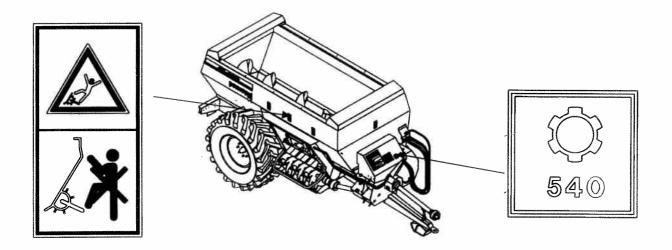


Ensure that there are no persons in the vicinity of the machine when the tractor engine is running. injury may result from contact with rotating parts and flying. objects.

Beware of rotating auger. Do not reach standing Or lean into tub. Do not attempt to clear

a blockage when the tractor engine is Serious running.

Serious injury may result from rotating parts



Do not use safety rail on the impeller as a step. Serious injury may result from slipping or falling into the impeller. The rotational speed of the PTO drive shaft must not be greater Than 540 revolutions per minute.

PRECAUTIONS

Accident programmes can only prevent accidents with the co-operation of the persons responsible for the operation of the equipment.

For the safety of others, operate equipment with care and do not take unnecessary risks which could cause an accident.

The tractor manufacturers operator manual safety precautions should be adhered to along with the following additional safety precautions listed when using a **Shelbourne Reynolds Powerspread.**

CAUTION



In addition to the following list, this symbol will appear throughout this manual whenever your safety, the safety of others or the machinery, is involved.

Please read all safety instructions contained in this operating manual with the utmost care and also observe all warning signs attached to the Powerspread. These warning signs must be kept in a legible condition and must be replaced if missing or damaged. This is especially the case when whole sections are replaced when making repairs. Warning signs are available from your dealer or importer.

Follow these instructions to prevent accidents. These instructions must also be made available to all other users. You are advised to refrain from any working methods, which may be hazardous.

PROPER USE

Shelbourne Reynolds Powerspreads are based on state-of-the-art technology and are manufactured in accordance with recognised safety requirements. Nevertheless the use of the Powerspread does not preclude the risk of injury to the user or third parties and/or the risk of damage to the Powerspread itself or to other materials or items of equipment.

Always make sure that the Powerspread is in a technically perfect condition and that it is used properly and for it's intended purpose and entirely in accordance with the instructions given in this manual. Any malfunctions or defects which, might affect the safe operation or the Powerspread must be immediately eliminated.

The Powerspread must be used, maintained and repaired only by persons who are familiar with it's working and have been made fully conversant with the risks involved.

OEM replacement parts and accessories from Shelbourne Reynolds have been specially designed for use with the Shelbourne Reynolds Powerspread. Any replacement parts and accessories not supplied by Shelbourne Reynolds have not been tested and approved by us. The installation and/or the use of non-Shelbourne Reynolds products may under certain circumstances have a negative influence on the given design features of your Powerspread and may therefore adversely affect it's safe and reliable operation and your safety. Shelbourne Reynolds cannot therefore be held liable for damage or injury caused by the use of non-OEM replacement parts or accessories.

The Shelbourne Reynolds Powerspread is intended for use on typical farms and to be employed in spreading many types of manure from thin slurry to heavy farmyard manure. Any uses other than those for which the Powerspread is intended, such as transportation, will automatically exempt Shelbourne Reynolds or the supplier from it's/his liability in respect of ensuing damage. Such cases of improper use will therefore be entirely at the user's own risk.

All relevant accident prevention regulations, as well as other generally acknowledged health and safety regulations and road traffic regulations must be strictly observed.

Improper use also comprises failure to observe the instructions given in this operating manual and the manufacturer's maintenance and servicing requirements.

OPERATIONAL SAFETY

The Powerspread must not be put into operation until the user has been given proper initial instructions either by the dealer or by one of Shelbourne Reynolds' representatives or employees.

The Powerspread may be used only if all safety devices, e.g. detachable guards, are fitted and in proper working order.

Nuts and bolts should be checked at regular intervals and tightened if necessary.

Tyre pressures must also be checked regularly.

In the event of a malfunction, immediately cease operation and secure the Powerspread in it's stationary position. Malfunctions must be eliminated immediately.

No liability for consequential damage

Even though your Shelbourne Reynolds Powerspread has been manufactured with the utmost care and you are using it properly, fluctuations and interruptions in feed rate may still occur.

It is the duty of the operator/user to ensure that foreign objects, e.g. stones, metal objects etc. are not allowed to enter the machine and are not allowed to be discharged by the impeller. The Powerspread impeller propels the muck at high speed to obtain it's spread pattern. Failure to observe this may result in damage to the Powerspread and/or injury to the operator/user and/or damage to property.

Any claims for damages not directly incurred by the Powerspread cannot be accepted. By the same token, Shelbourne Reynolds cannot be held liable for any consequential damage resulting from incorrect use of the Powerspread.

ROAD SAFETY

UK road traffic regulations must be observed when towing the Powerspread on roads, paths and other public places.(Relevant areas are stated overleaf).

The Powerspread must be in a road-worthy condition.

Observe the maximum permissible width for road transport and fit all necessary rear lights, warning signs and guards. Disconnect the electrical supply when fitting.

Disconnect all hydraulic connections and the PTO driveshaft from the Powerspread so that it cannot be inadvertently operated.

Ensure that all braking systems and lighting systems are in full working order and that they can be fully and correctly operated by the vehicle towing the Powerspread.

Observe the maximum permissible axle loads, the load bearing capacity of the tyres and the maximum total weights in order to ensure adequate steering and braking. The behaviour of the tractor is also influenced by attached implements. Take the width and the towing hitch weight into consideration, especially on sharp bends.

No person may be allowed to ride on the Powerspread.

ACCIDENT PREVENTION

Careful heed must be paid not only to the safety instructions contained in this operating manual but also to the accident prevention regulations governing the operation of agricultural machinery.

When coupling the Powerspread to the tractor

The work of coupling and uncoupling the Powerspread involves a high risk of injury. The following instructions must therefore be carefully observed:

- Secure the Powerspread in such a way that it is on level ground and cannot roll forwards or backwards.
- Slowly reverse the tractor towards the Powerspread always ensure that there are no other persons in the vicinity of the Powerspread or the tractor.
- Connect the Powerspread to the tractor hitch using only the method recommended in the tractor's operators manual.

When using the PTO shaft

Use only the universal joint shaft, which is supplied with the Powerspread and is intended for use with the Powerspread. Ensure that it is fitted with the prescribed protective equipment (protective tube and funnel-shaped PTO shaft guard must be fitted). Make sure that the tractor engine and the PTO shaft are switched off before proceeding to fit the universal joint shaft.

Make sure that the tubes overlap by the prescribed distance in both straight-ahead and in turning positions and are secured in such a way that they cannot rotate with the shaft.

Be absolutely sure that there is nobody standing in dangerous proximity to the Powerspread when you switch on the PTO shaft.

The PTO shaft speed of the tractor must correspond with the maximum permissible rotational speed of the Powerspread. The angle of attachment will depend on the type of PTO shaft and on the type of tractor hitch. Always switch off the PTO shaft if the angle of divergence is excessive or whenever the PTO shaft is not required.

When using the hydraulic system

Do not connect the hydraulic hoses to the tractor's hydraulic system until you have made sure that the system is at zero pressure on both the tractor and the equipment. The hydraulic system generates extremely high pressures. All piping, hoses and connections must therefore be checked regularly for leakage and visible external damage. Use proper and thorough means of searching for leakage and repair all damage immediately. Spurting hydraulic oil can cause injuries and fires. Call a doctor immediately in the event of injury. In order to exclude the possibility of incorrect connection, all mating plugs and sockets belonging to the hydraulic connections between the tractor and the Powerspread should be marked with matching colours.

2.2 BEFORE STARTING THE MACHINE

- 1. Read the manuals thoroughly.
- 2. Check that all guards are properly secured.
- 3. Ensure that no person is working on or inside the machine.
- 4. Check that all observers are clear of the machine.

2.3 THE MACHINE IN THE FIELD

- 5. Do not permit anyone to ride on the Powerspread or climb on the machine when the spreader is in operation.
- 6. Always stop the engine and apply the handbrake on the tractor before removing or opening any guards or clearing a blockage in the spreader.
- 7. NEVER allow anyone to walk alongside the right hand side of the machine whilst operating as injury from flying objects may occur.
- 8. Be aware that small stones and other similar hard objects can be thrown further than manure. Care should be taken when working near highways, public footpaths, buildings, etc...
- 9. Always replace all guards after making any adjustments or lubricating the machine. Replace or repair any damaged or missing guards immediately.
- 10. Do not work around the machine in loose clothing that might get caught in moving parts.
- 11. Keep hands away from moving parts.
- 12. Keep children away from and off the machine at all times.

2.4 LEAVING THE MACHINE

- 13. Park the machine on reasonably level ground.
- 14. Apply the tractor's parking brake.
- 15. Stop the tractor's engine before leaving the cab.
- 16. When unhooking the spreader apply the machine's parking brake before moving the tractor away.
- 17. Position the PTO shaft on the stand provided and locate the hydraulic hoses in the hose parking station on the front of the machine.

2.5 SERVICING THE POWERSPREAD

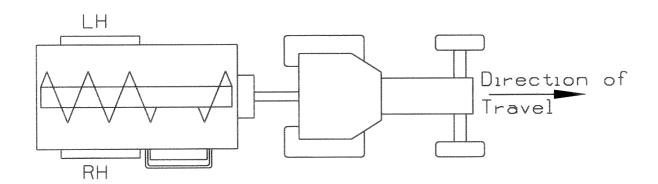
- 17. Stop tractor engine and apply handbrake before performing any adjustments or lubrication and before opening or removing any guard.
- 18. Always re-install all safety guards on completion of servicing.

2.6 SPREADER ATTACHMENT AND TRANSPORTATION

- Follow the procedure described further through this manual for spreader attachment and detachment.
- Follow the section on loading the Powerspread and ENSURE THAT THE MACHINE IS NOT OVERLOADED. The specification plate on the left hand side of the machine will state the safe maximum working weights and loads.
- 21. When towing the loaded Shelbourne Reynolds Powerspread on the highway, ensure that material cannot over-flow or spill out of the hopper.
- 22. When towing the machine, ensure that the P.T.O. shaft and hydraulic hoses are attached correctly, and do not interfere with the ground or foul any moving parts

SECTION 3: SPECIFICATION AND DESCRIPTION

RIGHT AND LEFT HAND OF THE MACHINE AS TERMED IN THE MANUAL IS AS VIEWED WHEN IN THE DRIVERS SEAT.



THE SHELBOURNE REYNOLDS POWERSPREAD Dairy

CONTRACTOR OF THE PARTY AND ADDRESS OF THE PARTY ADD	BENEFITS
FFATURES	
FFAIURE3	

Patented centre discharge auger causes minimum movement of manure.

High rates of discharge.

Contra feeding auger provides Material well broken in hopper Boiling action.

Six paddles every revolution Provides an even feed to the impeller. of auger.

Vertical centre lift door.

Allows an even discharge of manure at any door setting utilising the total impeller width.

Overshot impeller. Provides a fine even spread at widths of up to 18 metres.

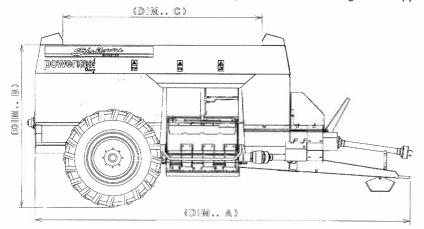
Slurry deflectors. Gives an even slurry spread pattern.

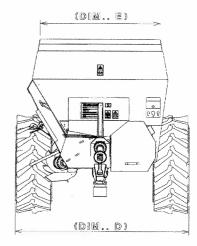
Shear bolts fitted. For maximum protection of the drives.

Varying pitch auger flights. Enables a wide range of manure and slurry to be spread.

TECHNICAL SPECIFICATION

Sizes and weights are as follows: (all dimensions & weights are approximate)





<u>Dairy</u>	1400	1600	1800	2000
Capacity Gallons	6350 litres / 1400 gallons 1700 gallons	7250 litres / 1600 gallons 1900 gallons	8000 litres / 1800 gallons 2100 gallons	9000 litres / 2000 gallons 2400 gallons
Volume	6.35 m ³ (244 ft ³)	7.25 m ³ (256 ft ³)	8.00 m ³ (283 ft ³)	9.00 m ³ (318 ft ³)
Length (A)	5410mm (213")	5410mm (213")	5410mm (213")	5410mm (213")
Width (D)	2540mm (100")	2540mm (100")	2540mm (100")	2540mm (100")
Loading height (B)	2025mm (80")	2293mm (90")	22445mm (96")	2597mm (102")
Opening length (C)	2835mm (112")	2900mm (114")	2690mm (106")	2690mm (106")
Opening width (E)	1550mm (61")	1550mm (61")	1550mm (61")	1550mm (61")
Tyre size	21.3-R24	21.3-R24	21.3-R24	21.3-R24
PTO speed	540rpm	540rpm	540rpm	540rpm
Recommended size of tractor	60-80 hp	70-90 hp	70-90 hp	90- hp Upwards
Unladen weight	2841kg (6264 lbs)	2900kg (6395 lbs)	2945kg (6494 lbs)	3000kg (6615 lbs)
Gross weight	9541kg (21038 lbs) *As Above	9600kg (21168 lbs) *9900kg (21830 lbs)	9645kg (21267 <i>lbs)</i> *10595kg (23362 lbs)	9700kg(21389 <i>lbs)</i> *11500kg(25358lbs)
Unladen drawbar Weight	672kg (1482 <i>lbs</i>)	684kg (1508 <i>lbs</i>)	693kg (1528 <i>lbs</i>)	703kg (1550 <i>lbs</i>)
Max axle weight	7589kg (16734 <i>lbs)</i> *As Above	7636kg (16837 <i>lbs)</i> *7879kg (17373 lbs)	7672kg (16917 <i>Ibs</i>) *8441kg (18612 lbs)	7717kg(17016 lbs) *9173kg(20226lbs)
Max drawbar weight	1952kg (4304 <i>lbs)</i> *As Above	1964kgs (4331 <i>lbs)</i> *2021kg (4456 lbs)	1973kg (4350 <i>lbs)</i> *2154kg (4750 lbs)	1983kg (4373 <i>lbs</i>) *2327kg (5131 lbs)
Spread width	up to 18m	up to 18m	up to 18m	up to 18m
Door size	955mm	955mm	955mm	955mm
Door operation	Double acting hydraulic ram	Double acting hydraulic ram	Double acting hydraulic ram	Double acting hydraulic ram
Max road speed	20mph (32km/h)	20mph (32km/h)	20mph (32km/h)	20mph (32km/h)

Note: All weights & other data are approximate.

- Weights in bold text and a 20mph (32km/h) speed limit must not be exceeded if the machines are to be taken on public roads. These weights are derived due to the maximum carrying capacity of the tyres at 20mph (32km/h).
- Increased weights are for field use only (max speed 10km/h). They are derived from the maximum weights you can physically put into the machine, (figures based on manure being no heavier than 850kg/m³).

Optional Extras on Powerspread Dairy;

-Brake relief kit (for use when brakes are not connected direct to tractor brake line i.e. when brakes are connected into tractor spool valves) See section 4.4

SECTION 4: TRANSPORT AND ATTACHMENT

4.1 ATTACHING SPREADER TO TRACTOR

The Powerspread can be supplied with a US, flat continental or UK drawbar hitch. It is recommended though, due to the high drawbar loading, that the machine should only be used on the automatic pick up hitch of the tractor.

An option of a parking jack or a detachable shoe, fitted to the underside of the drawbar is supplied with the machine. This enables the automatic pick up hitch hook to easily move under the drawbar lug when attaching the spreader.

The PTO is equipped with a standard 1 3/8" six spline suitable for all 540rpm tractor PTO shafts. The length of shaft may have to be adjusted to cater for your particular tractor/Powerspread combination.

With the Powerspread attached to the tractor and parked in the straight-ahead position, slide the PTO shaft apart and connect the respective ends to the tractor / Powerspread.

Lay the shafts side by side and make sure they have at least 150mm of distance between the end of the shaft and the adjacent joint.

Shaft lengths can be adjusted by sawing off equally a proportion of tube from the inner and outer PTO tube together with a corresponding amount off the plastic protection tubes. The tubes should always have at least 300mm overlap whilst operating.

If necessary check the length of the shafts by steering the tractor into a full lock in one direction and seeing that the shafts do not "bottom."

Make sure the correct tractor P.T.O. speed is selected at all times. Ensure that the tractor link arms do not foul the P.T.O.

4.2 CONNECTING THE DOOR RAM HYDRAULIC HOSES

The hydraulic hoses are fitted with 1/2" quick release coupling ends as standard, and the Powerspread requires a double acting supply to raise and lower the discharge door.

If couplings are not compatible, change to suitable connections for the required application. If the tractor is fitted with a flow control valve, adjust to minimum flow rate.

Having pushed the hose ends into the tractor spool valves, ensure that the hoses do not hang down and obstruct the tractor lift arms or any moving parts.

4.3 CONNECTING THE BRAKE HYDRAULIC HOSE

The Powerspread flexible hydraulic brake pipe is fitted with a quick release female coupling to suit the ISO standard tractor brake system.

Having pushed the hose end into the tractor spool valve, ensure that the hose does not hang down and obstruct the tractor lift arms or any moving parts.

4.4 THE POWERSPREAD BRAKING SYSTEM AND HANDBRAKE

In order to comply with the Health & Safety Executive code of practice on trailer braking together with the Construction and Use Regulations, the Powerspread is fitted with brakes, which must be coupled to the tractor when travelling.

Ideally the spreader should be connected directly to the tractor braking system, as will be the case on all modern tractors. However, earlier tractors without this facility can be fitted with a trailer braking kit, which enables this direct connection to be made. This ensures that when the tractor brakes are applied, the brakes on the Powerspread are also brought into operation, usually slightly in advance of the tractor brakes.

IMPORTANT NOTE

A Shelbourne Reynolds brake relief kit must be used if the brakes are to be operated through the spool valves at the rear of the tractor due to the excessive pressures released by the valves.

(The part number of this kit is KIT-02602)

AT ALL TIMES WHEN THE MACHINE IS IN MOTION, EITHER TRAVELLING OR WORKING, THE HYDRAULIC BRAKE LINE MUST BE CONNECTED.

The parking brake is applied by pulling the lever towards the tractor. WHEN THE MACHINE IS TO BE DISCONNECTED FROM THE TRACTOR THE PARKING BRAKE MUST BE APPLIED BEFORE DISCONNECTION, EVEN ON LEVEL GROUND. The parking brake must be released prior to towing the machine, after re-connection to the tractor.

When the machine is attached to the tractor the cable must be connected between the tractor and the parking brake lever such that, should the machine become inadvertently detached from the tractor, the spreader brakes would be automatically applied.

Similarly, when detaching from the tractor, ensure that the brake hose and other hydraulic hoses are pushed into the hose parking station. Also, make sure the PTO is supported on the stand provided on the drawbar.

SECTION 5: FIELD OPERATION AND SPREADING

OPERATING THE SHELBOURNE REYNOLDS POWERSPREAD.

Read this manual carefully before operating the spreader in the field.

To get optimum performance from your Shelbourne Reynolds Powerspread the operator should keep to the following procedures of operation.

5.1 GENERAL

The machine is designed to run at 540 rpm PTO speed. Spreading should be done in straight-line bouts, avoiding spreading while turning corners, as this will cause vibration in the PTO drive.

5.2 LOADING THE POWERSPREAD

Always close the door before loading the Powerspread.

All free flowing muck/slurry must not be overfilled or the material will be discharged over the side during transport.

If thin slurries are to be spread, then the correct setting of the discharge deflectors above the door is required. (See settings for deflector paddles - Section 5.11)

When travelling on the highway the Powerspread should not be overloaded and when carrying thin slurries allow sufficient room at the front of the spreader to prevent "forward surge" and consequent over-spill if emergency braking should be required.

While loading dry straw or clamp manure precautions should be taken if large slabs or lumps, particularly from the front of feeding troughs, are encountered.

Always endeavour to slide these down the side into the hopper and do not position them directly onto the top of the auger as this may cause bridging and will prevent an even spread pattern.

When clearing stockyards the areas around the feed troughs will be compacted an so breaking up the manure with the loader forks will speed up the discharge rates.

In order to achieve higher discharge rates when spreading unrotted, compressed material, the material should be broken up when loading into the machine. The use of grab-buckets should be avoided; always use manure forks.

5.3 DISCHARGE RATE

The machine is designed with a single speed auger so that with the door wide open a reasonably fast discharge rate can be obtained. This is particularly useful when large loads are being spread and therefore the quicker the unloading time the better.

For a finely shredded spread with a low discharge rate the door opening will be small. The auger still transports the manure to the discharge position at the same speed though, and the resultant "bottle-neck" of material causes a "boiling up" effect. This helps break down the manure further before it is finally ejected onto the impeller blades and discharged.

IMPORTANT NOTE

Some manure types are not suited to this method, especially if they are already tightly packed or layered before loading. In these cases the door should be opened wide to allow fast ejection and the forward speed of the tractor increased to achieve a suitable spread rate on the field.

The discharge or spread rate of the Powerspread depends very much on the type of material being spread. For a given material it will be found that there is an ideal door position for maximum throw of the material and maximum shredding of the manure. It is recommended that the standard PTO speed of 540 rpm is used at all times and the discharge rate varied according to the door opening and the forward speed of the tractor. A further variant is the amount of overlap between each run which, in most cases, will average 6m (20ft).

5.4 FOREIGN OBJECTS

If during the spreading, a knocking sound is heard or sparks are seen coming from the impeller, then there will be a foreign object such as a stone in the machine. Open the discharge door wide to allow the object to be thrown out. If the object is not cleared immediately then stop the machine, stop the tractor and investigate.

5.5 DOOR OPENING

As a general rule it is better in heavy straw manure to open the door wide when starting the machine running, and then closing the door to give the desired spread rate and shredding capabilities.

The opposite applies with thin slurry, as a very small door opening will be required (possibly as low as 25mm / 1").

When spreading slurry the machine should be running at the correct 540 rpm PTO speed before the door is opened. The door should be opened slowly, watching the door indicator and the spread width to gauge a satisfactory spread rate.

The door opening will depend completely on the type and consistency of the material being spread and the spread rate desired by the operator.

5.6 SPREADING SEMI-SOLID MATERIALS / LAGOON SCRAPINGS

Start with discharge door closed, engage PTO gently at low engine rpm and gradually and positively bring up to 540 rpm. At the same time move forward at the required speed and then immediately open the hydraulic door to the required position on the indicator. This position will depend on the type of consistency of the material being spread, and the operator's judgement of spread rate and pattern.

It may be that this type of material will cause partial blockage of the discharge door, (also when the auger flights are not fully covered the discharge rate will reduce), therefore it may be necessary to increase the door opening for the last part of the load.

See notes in section 5.10 on spread pattern for adjustment of deflector paddles.

5.7 SPREADING SOLID MATERIALS

When spreading solid material open the hydraulic door to the required position on the indicator. This position will depend completely on the type and consistency of the material being spread, and the operator's judgement of spread rate and pattern.

Then engage the PTO gently at lower engine rpm, gradually and positively bring up to 540 rpm and at the same time move forward at the required speed.

In order to achieve higher discharge rates when spreading unrotted, compressed material, the material should be broken up when loading into the machine. The use of 4 in 1 buckets should be avoided; always use manure forks.

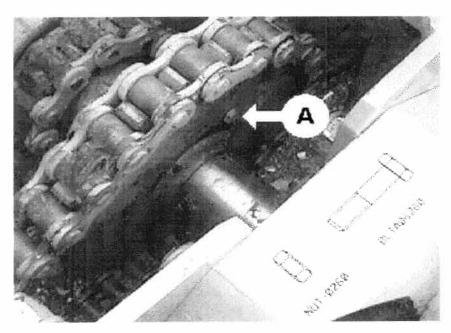
When clearing stockyards the areas around the feed troughs will be compacted and so breaking up the manure with the loader forks will speed up the spreader discharge rates.

5.8 SHEAR BOLT PROTECTION

To prevent damage to the Powerspread by foreign objects, a shear bolt protection is provided on both the impeller and auger drives. If the machine encounters an obstruction and shears a bolt, stop the tractor and the machine immediately.

Attempt to remove the object by (a) opening the door fully and trying to locate the foreign object or (b) by looking in from the top of the hopper and locating the object in the auger.

Fig.1



To change the auger drive shear bolt, (item A as shown in Fig.1), stop the engine on the tractor, manually reverse the drive by turning the impeller round in a reverse direction until the shear bolt holes are aligned, then insert a new shear bolt. Continue reversing to dislodge the foreign object caught up in the Powerspread auger.

The shear bolts on the Powerspread are made from special material. Normal commercially available bolts are not strong enough.

The shear bolts must be genuine Shelbourne Reynolds service parts. If not, the company will not consider any claim made under the warranty and no liability shall be attached to the company.

Powerspread auger shear bolt BLTA06264
Powerspread impeller shear bolt 605123 01

Occasionally check the machine for build up of foreign materials such as plastic baling twine wrapped around the auger core. Normally this causes no problems but should not be allowed to build up too much as it will impair the performance of the auger. From time to time cut the twine and remove it.

Always keep the side of the hopper clean, never allow a build up of material or this will obstruct the feed of material to the auger.

The Powerspread impeller is equipped with replaceable wear plates. Being double serrated edged, when one edge is worn the blades can be reversed.

5.9 SPREAD PATTERN

The patented adjustable impeller flights or deflectors, have been designed to give you the optimum spread pattern to suit your conditions when spreading slurry.

Each flight can be adjusted separately along the pivoting bar by loosening the coach bolts and rotating the flight on the bar. The flights are then adjustable together by operating the spring lever into any one of three positions; the lower two positions are for spreading slurry and the top position for spreading manures.

IMPORTANT NOTE

After adjusting the flights to a suitable place, care should be taken so when the spring lever is in its top position, the deflector flights do not obstruct the door ram when the door is raised and lowered.

See Fig.3 and Fig.4 which show the Powerspread discharge door with flights in the top position and flights in the middle position.

Fig.5 shows a suitable spread pattern for spreading slurry which is obtained by adjusting the deflector flights as described.

Fig.3

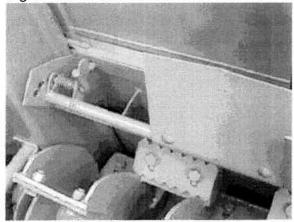
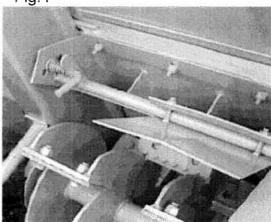


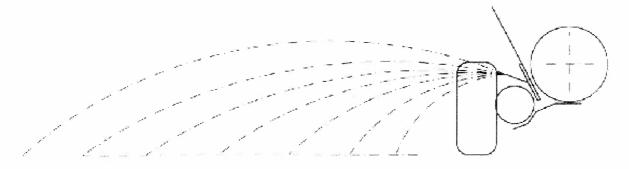
Fig.4



Flights in the top position

Flights in the centre position

Fig.5



Flights set to give a good band of spread when using slurry

SECTION 6: ADJUSTMENTS AND MAINTENANCE

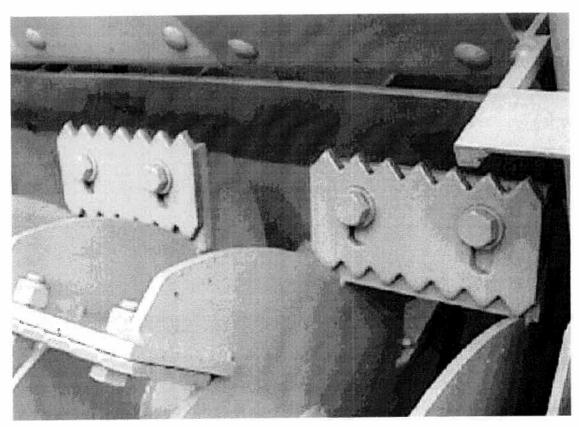


NEVER CARRY OUT ANY ADJUSTMENTS OR MAINTENANCE WHEN THE TRACTOR ENGINE IS RUNNING AND NEVER USE THE SPREADER UNLESS ALL GUARDS ARE SECURELY FITTED.

6.1 IMPELLER BLADE ADJUSTMENT

Impeller blades are attached to the impeller through an adjustable slot and the blades should be adjusted to give approximately 5mm (3/16") clearance between the tip of the blades and the outside face of the discharge door when closed. Fig.6 shows the impeller blades bolted to the discharge rotor section.

Fig.6



The smooth blades should protrude approximately 2mm (5/64") further than the teeth on the serrated blades.

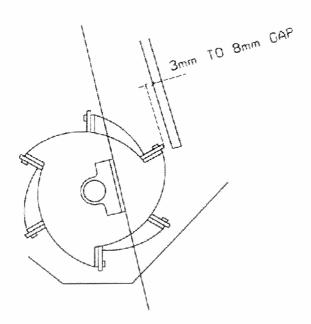
As the impeller blades wear they can be adjusted outwards so as to maintain spreading capability.

When correctly adjusted there should be a 3mm to 8mm gap between the top of the blades and the door (at their closest point). This can best be checked with the door partially open (see Fig.7).

When blades are fully worn on one edge they can be turned over and the second edge can be used.

Failure to adjust the impeller blades on a regular basis will impair the performance of the Powerspread.

Fig.7



6.2 DRIVE CHAIN TENSIONING

All three chains in the drive system are equipped with tension adjusting facilities. Adjust the chains periodically so as to receive good performance and life from the Powerspread chain drive system.

Fig.8

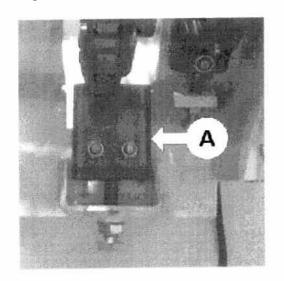
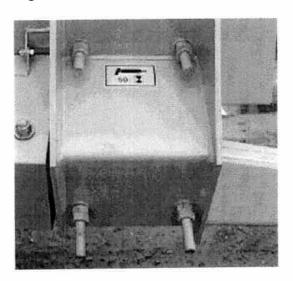


Fig.9



Tensioning of the other 2 chains is done using the adjustment screws on the right hand side of the machine, (see Fig. 9).

Ensure after adjustment that sprockets are in line and parallel to each other; this can be checked using a straight edge across one sprocket onto the next.

6.3 SHEAR BOLTS

Shear bolts are provided on the impeller and auger drive; always ensure that these bolts are kept tight.

Make sure the shear bolt bushes are in good condition and free from wear, as this can affect the safety of the Powerspread.

6.4 WASHING INSTRUCTIONS

Wash down the Powerspread frequently. Protect the body by touching up damaged paintwork immediately.

If storing the Powerspread for a length of time ensure all drive chains and wearing parts are well lubricated.

6.5 TYRE PRESSURES

Check tyre pressures occasionally:

Tyre make	Tyre size	<u>Pressure</u>
Kama	21.3 / R24 10 pr	37 psi (2.5 bar)
Dneproshina	21.3 / R24 12 pr	46 psi (3.2 bar)
Dneproshina	540 / 70 R24 12 pr	46 psi (3.2 bar)
Dneproshina	23.1 / R26 12 pr	32 psi (2.2 bar)
Starmaxx	23.1 / R26 12 pr	30 psi (2.1 bar)
Starmaxx	23.1 / R26 14 pr	35 psi (2.4 bar)

6.6 HARDWARE AND FIXINGS

Check all hardware and fixings after the first 10 hours of work, then after every 50 hours work. Pay particular attention to wheel nuts and bolts securing bearings.

Number of studs, stud size and nut type	Torque (Nm)	Torque (lb/ft)	Socket size
8 studs, M20 x 1.5mm pitch, "Plain nut & split coned washer"	350	260	30mm
8 studs, M18 x 1.5mm pitch, "Bec" taper cone nut	270	200	29mm

The wheel nuts must be tightened diagonally using the appropriate sized socket to the torque stated using a torque wrench.

It is recommended that wheel nuts should be checked / tightened :

- Before use at Pre Delivery Inspection stage.
- After the first use / laden journey.
- After the first day of use. Depending if the wheel nuts have become loose then repeat check / tighten daily until no loosening occurs.
- After the first week of use. Depending if the wheel nuts have become loose then repeat check / tighten weekly until no loosening occurs.
- Regularly during use onwards.

Repeat every time the wheels are changed or removed.

SECTION 7:

LUBRICATION

- a) Lubricate sliding tubes of P.T.O. shaft every 25 hours with good quality moly-disulphide grease.
- b) Grease nipples on P.T.O. shaft every 10 hours.
- c) Grease every 50 hours or once a working week.
 - 1. rotor rear bearing.
 - 2. Rotor front bearing.
 - 3. Impeller rear bearing.
 - 4. Impeller front bearing.
 - 5. P.T.O. drive shaft bearing front.
 - 6. P.T.O. drive shaft bearing rear.
- d) Lubricate all chains with thick grease or chain lubricant (Rocol chain and drive spray) as and when necessary.
- e) Oil ram pivot pins.
 Oil guard latches and hinges
- f) Pack wheel hubs with grease once a year.

SE	C	T	O	N	8.

PARTS LISTING

POWERSPREAD PARTS MANUAL

Machine Identification

Ordering Spare Parts

To ensure that you order the correct part from your SRE dealer please use the following procedure.

ALWAYS QUOTE THE MACHINE AND SERIAL NUMBERS WHEN ORDERING.

Refer to the first page of this parts list section (machine assemblies), listing all the sub assemblies.

The appropriate assemblies part number (in the top left corner) will match the machine number from the Powerspread identification plate.

Use the following sub assembly numbers and descriptions to find the area of the machine that your part is required, i.e. if you need a part which is fitted to the impeller, your part will be in the discharge rotor assembly parts list.

Having decided which sub-assembly your part should be under, use the number beside that sub-assembly description, (which will begin with 6090____), to find the parts listing of the sub-assembly further on in the manual. The number will be printed in the top left hand corner, the sub-assemblies are in numerical order.

Having found the correct parts list, you will find the corresponding drawing by either looking at the facing page or progressing through the manual to the next drawing.

The drawings indicate the components by item numbers which you will find are repeated in the left hand side of your parts listing, and therefore referring to the correct part.

LIST OF KIT NUMBERS FOR POWERSPREAD DAIRY

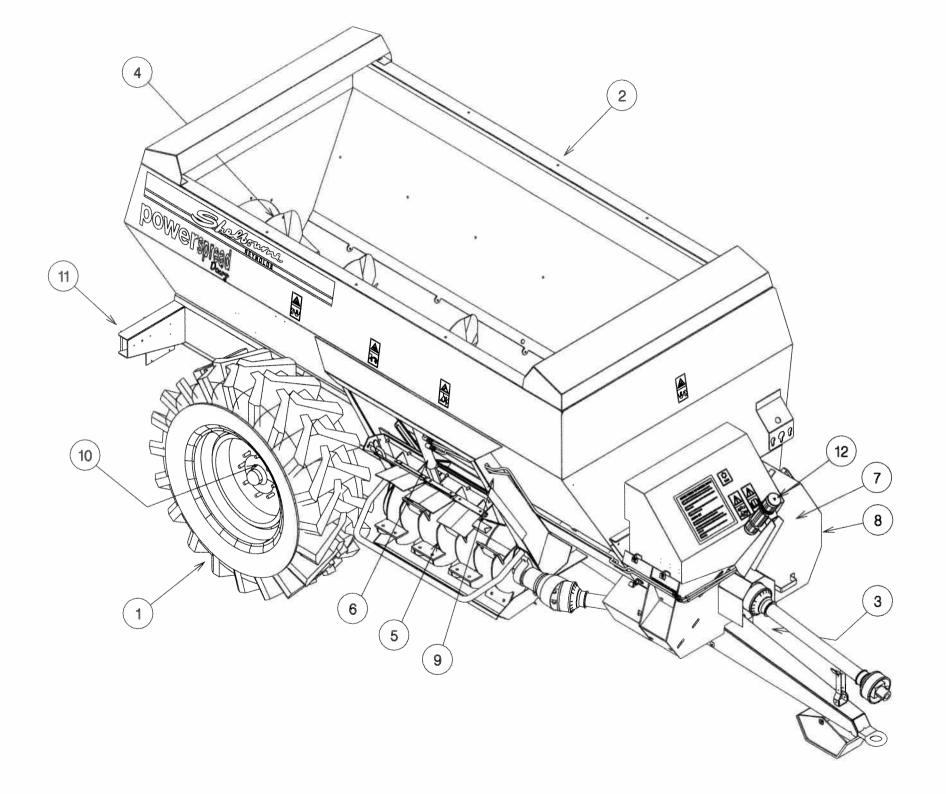
1. 609903 01 2. 609903 02 3. 609000 01 4. 609001 01 5. 609002 01	POWERSPREAD DAIRY ASSEMBLY POWERSPREAD DAIRY 1400 GALLON ASSEMBLY AXLE SUB ASSY HANDBRAKE SUB ASSY DISCHARGE ROTOR SUB ASSEMBLY
6. 609003 01	DISCHARGE DOOR SUB ASSEMBLY
7. 609007 01 8. 609011 01	DOOR RAM HYDRAULICS SUB ASSEMBLY
9. 609021 01	BRAKE RAM HYDRAULIC SUB ASSEMBLY
	LIGHTS SUB ASSEMBLY
11.609029 01	MAIN BODY SUB ASSY
12.609030 01	AUGER AND AUGER FIXING KIT DRIVE SUB ASSEMBLY
13.609031 01	FIXTURES AND GUARDS SUB ASSEMBLY
14.609044 01	AXLE SUB ASSEMBLY
15.609047 01	DOOR RAM HYDRAULICS
	BRAKE RAM HYDRAULICS
17.KIT-03230	SLURRY CANOPY KIT
18.KIT-03248	GERMAN PARTS KIT
19.KIT-03249	UK PARTS KIT
20. KIT-03250	EUROPEAN PARTS KIT
21.KIT-03251	USA PARTS KIT 6" WOODEN EXTENSION TOP (1600-1800 GALLON)
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
23. KIT-03275	WIDE ANGLE PTO SHAFT
24. KIT-03276	STANDARD PTO SHAFT
25. KIT-03309	12" WOODEN EXTENSION TOP (1600-2000 GALLON)
26. KIT-03551	ANTI-BRIDGING KIT 1600 DAIRY/CONTRACTOR
27. KIT-03553	ANTI-BRIDGING MANUAL HYDRAULICS KIT
28. KIT-03554	ANTI-BRIDGING AUTO HYDRAULICS KIT
29. KIT-03625	ANTI-BRIDGING KIT DOUBLE ARM 1600
30. KIT-03738	ANTI-BRIDGING KIT DOUBLE ARM 1600
31. KIT-03772	WHEEL AND TYRE KIT (23.1-26 ALLIANCE)

Shelbourne Reynolds Engineering Limited

ASSY	NUMBER:	609903 01	ASSY	DESCR	[PTION:	POWERSPREAD DAIRY ASSY	
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1	609000 01	AXLE & WHEELS SUB ASSY (FAI (UP TO SERIAL No 116102) EPDFB1) 1				
OR	609044 01	AXLE & WHEELS SUB ASSY (ADI (SERIAL NO 117102 ONWAR) EPDFB1	R)				
2	609028 01	BODY & FRAME SUB ASSY EPDFB1	1				ALLA LA CONTRACTOR CON
3	609001 01	HANDBRAKE SUB ASSY EPDFB1	1				C. C
4	609029 01	AUGER FIXING KIT SUB ASSY EPDFB2	1				
5	609002 01	IMPELLER SUB ASSY EPDFB2	1				Action advisors
6	609003 01	DOOR & RAM SUB ASSY EPDFB2	1				Andrews and the second
7	609030 01	MAIN DRIVES SUB ASSY EPDFB2	1				
8	609031 01	GUARDS & FIXTURES SUB ASSY EPDFB3	1				
9	609047 01	DOOR HYDRAULICS SUB ASSY (SERIAL 127102 ONWARDS)	1				
OR	609007 01	DOOR HYDRAULICS SUB ASSY EPDFB3 (UP TO & INCLUDING SERIAL NO 126102)	1				
10	609048 01	BRAKE HYDRAULICS SUB ASSY (SERIAL NO 127102 ONWARDS)	1				
OR	609011 01	BRAKE HYDRAULICS SUB ASSY EPDFB3 (UP TO & INCLUDING SERIAL NO 126102)	or ground or some of the some				
11	609021 01	LIGHTING SUB ASSY EPDFB3	1	The control of the co			
12	SPREDPACK1	POWERSPREAD DAIRY PACK KIT	1				
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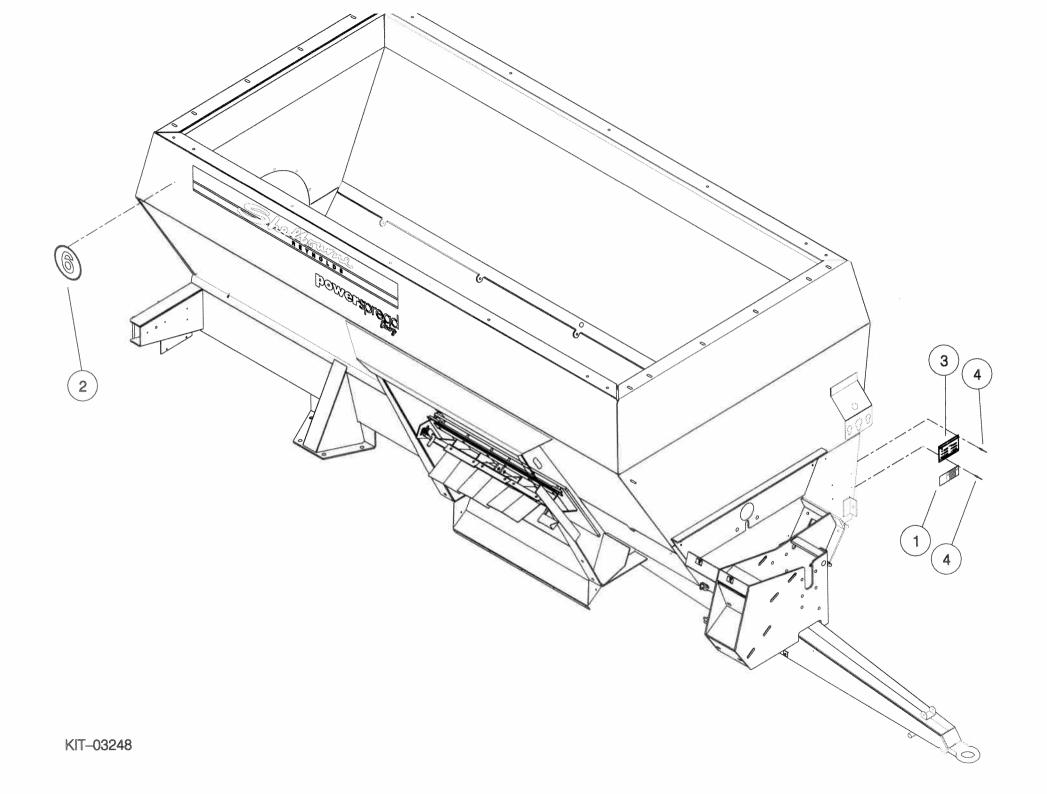
Shelbourne Reynolds Engineering Limited

ASSY I	NUMBER:	609903 02	ASSY	DESCR	IPTION:	POWER	SPREAD DAIRY 1400 GALLON ASS	Y
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART I	NO	DESCRIPTION	QTY
1	609044 01	AXLE & WHEELS SUB ASSY (ADF	٤)					
2	609028 02	BODY & FRAME SUB ASSY EPDFB1A	1					
3	609001 01	HANDBRAKE SUB ASSY EPDFB1A	1					
4	609029 01	AUGER FIXING KIT SUB ASSY EPDFB2	1					
5	609002 01	IMPELLER SUB ASSY EPDFB2	1					
6	609003 01	DOOR & RAM SUB ASSY EPDFB2	1			:		
7	609030 01	MAIN DRIVES SUB ASSY EPDFB2	1					
8	609031 01	GUARDS & FIXTURES SUB ASSY EPDFB3	1					
9	609047 01	DOOR HYDRAULICS SUB ASSY	1					
10	609048 01	BRAKE HYDRAULICS SUB ASSY	1					
11	609021 01	LIGHTING SUB ASSY EPDFB3	1					Mercina de la companya de la company
12	SPREDPACK1	POWERSPREAD DAIRY PACK KIT	1					
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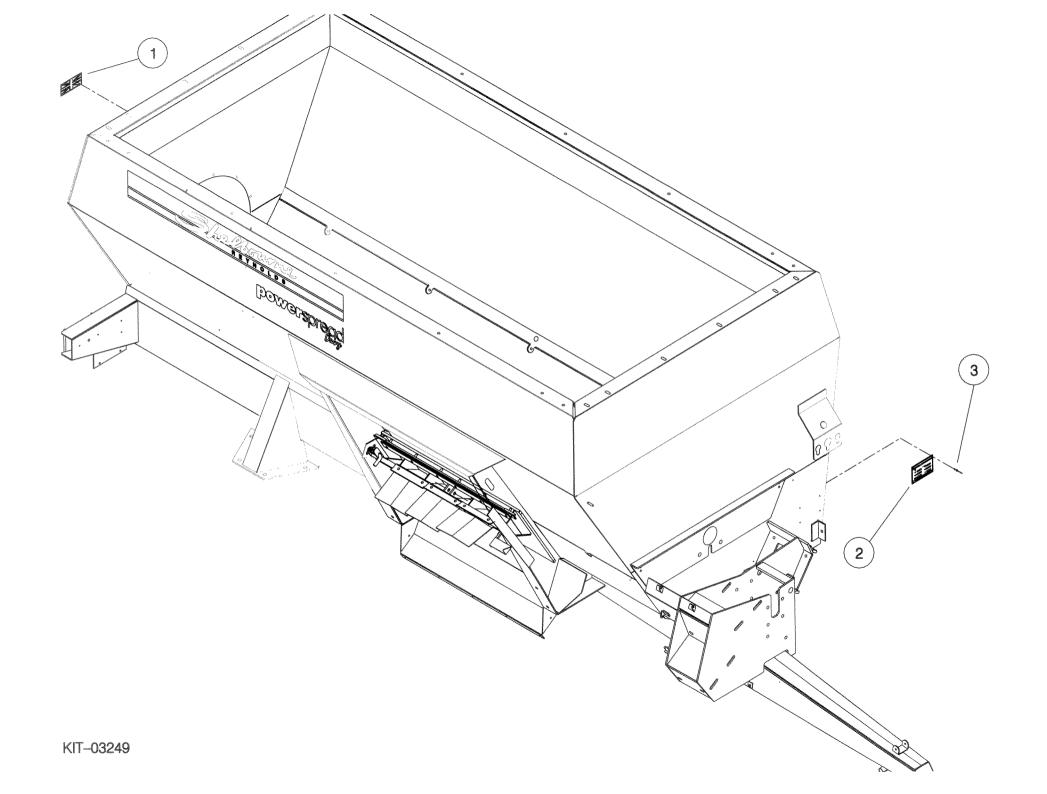


Shelbourne Reynolds Engineering Limited

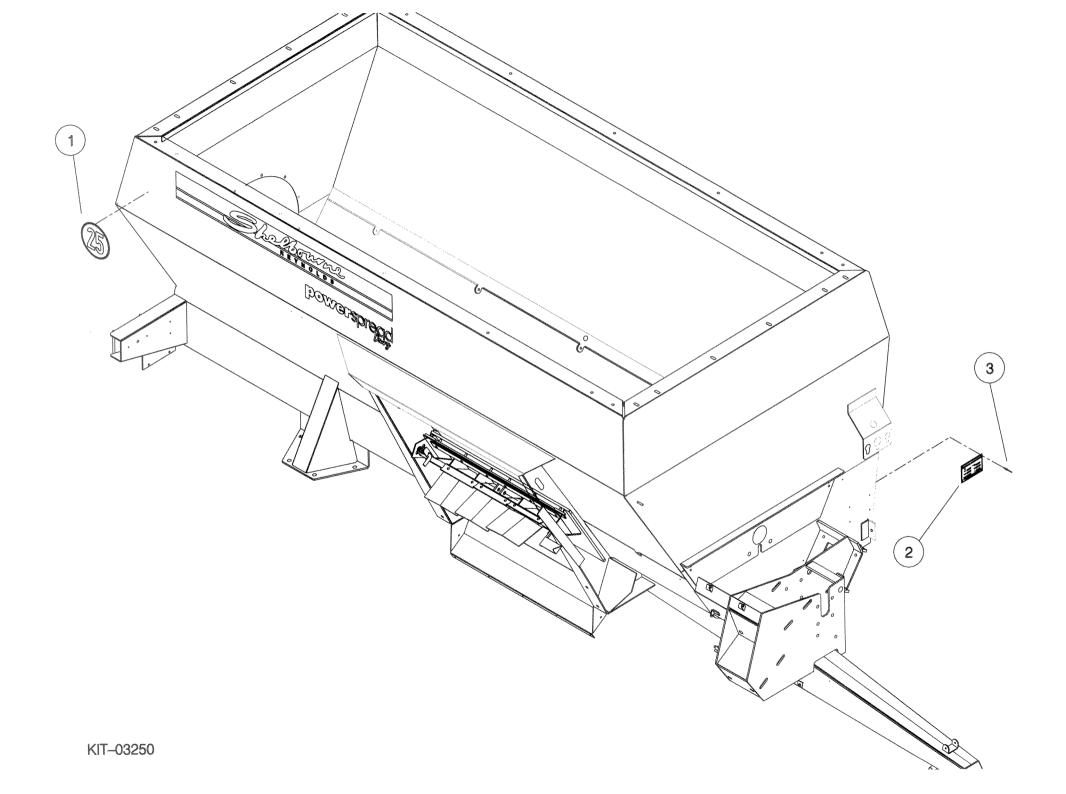
ASSY :	NUMBER:	KIT-03248	ASSY	DESCRI	PTION:GERMA	N PARTS KIT	
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1 2 3 4	TNF-0201 612610 01 590145 01 POP-0006	GERMAN IDENTIFICATION PLATE 6Km/h TRANSFER UK IDENTIFICATION PLATE POP RIVET					



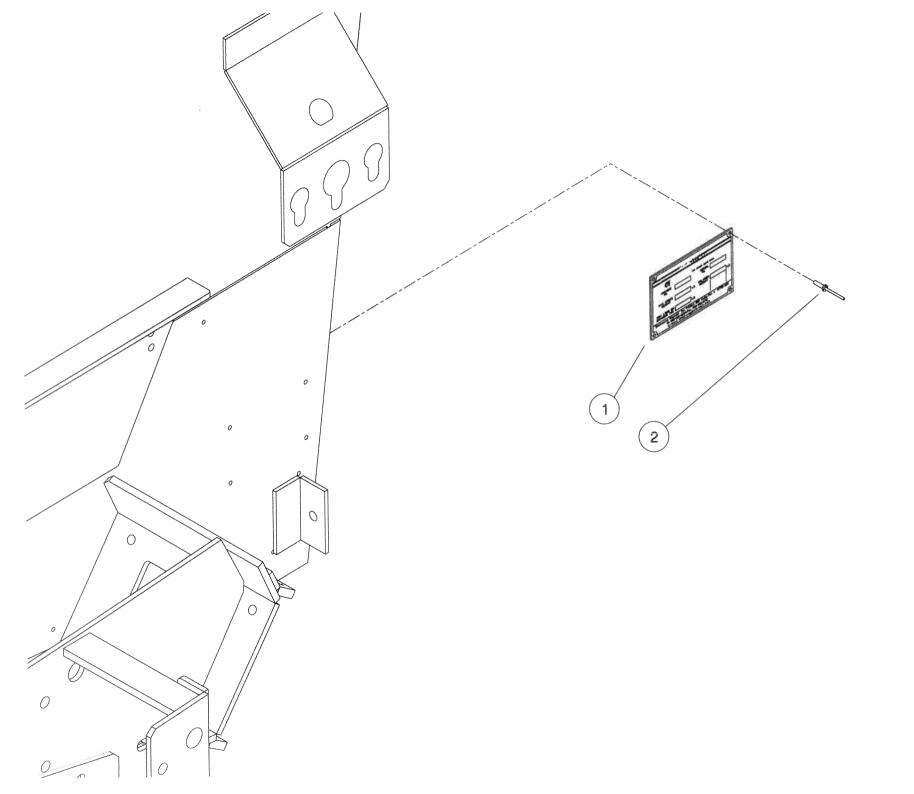
ASSY N	NUMBER:	KIT-03249	ASSY	ASSY DESCRIPTION:UK PARTS KIT						
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY			
1 2 3	610563 01 590145 01 POP-0006	UNION JACK TRANSFER UK IDENTIFICATION PLATE POP RIVET	1 1 4							



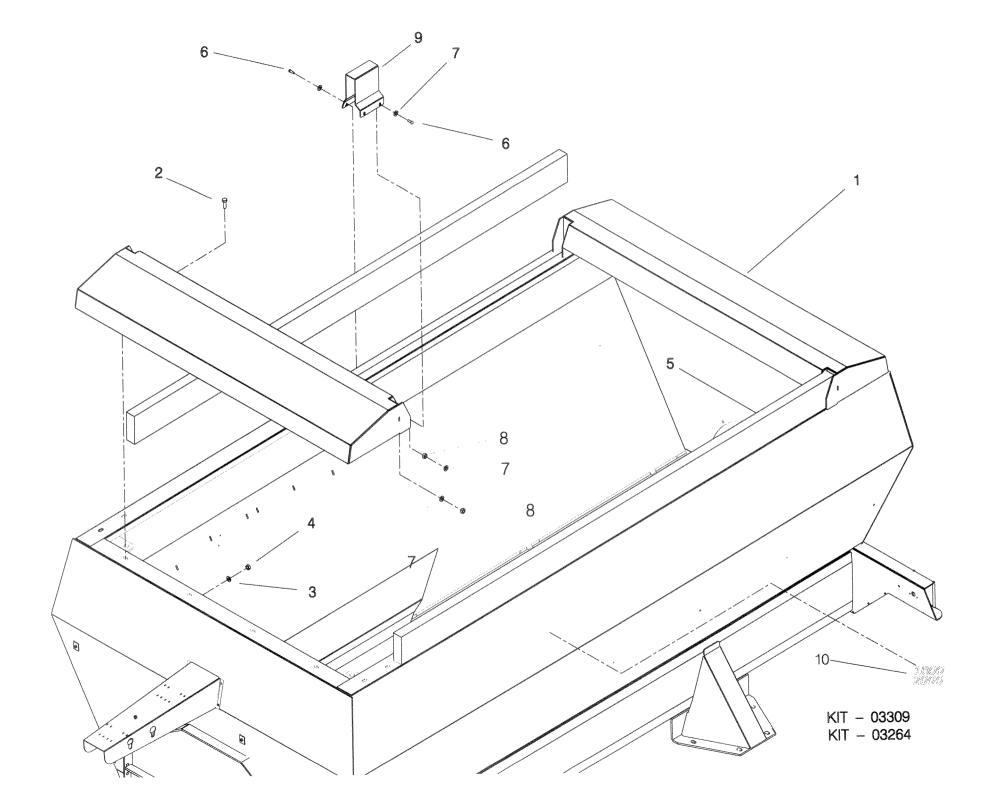
ASSY	NUMBER:	KIT-03250	ASSY	DESCR	[PTION:EUROPE	EAN PARTS KIT	
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1 2 3	611033 01 590145 01 POP-0006	25Km/h TRANSFER UK IDENTIFICATION PLATE POP RIVET	3 1 4				
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ASSY	NUMBER:	KIT-03251	ASSY	DESCRI	PTION:USA P.	ARTS KIT	
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1 2	612269 01 POP-0006	USA IDENTIFICATION PLATE POP RIVET	1 4				



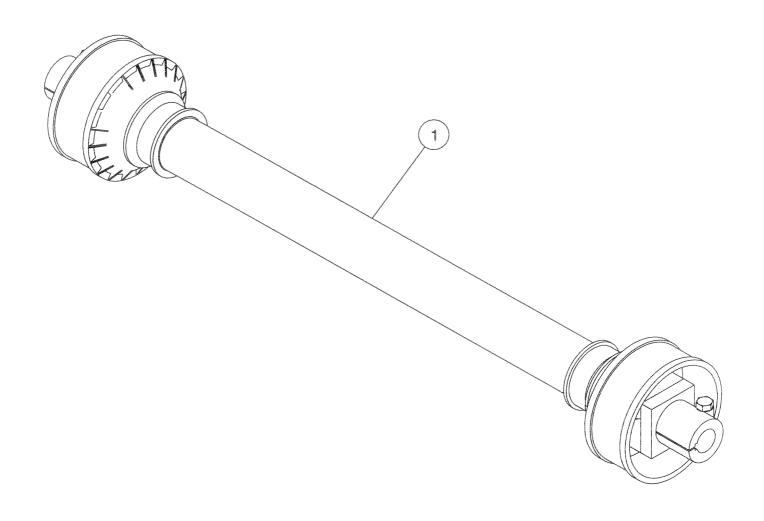
590943 01 SLURRY CANOPY W/A 2 HSS-0238 SET SCREW 20 WSH-0018 WASHER 36 NUT-0269 NUT 28 WOO-0016 WOODEN PLANK 2 HSS-0238 SETSCREW 8 590953 01 SMALL EXTN SIDE BRKT W/A 2	ASSY 1	NUMBER:	KIT-03264	ASSY	DESCRI	PTION:6'' W	OODEN EXT TOP (1600-	-1800 GALLON)
HSS-0238 SET SCREW WSH-0018 WASHER NUT-0269 NUT WOO-0016 WOODEN PLANK HSS-0238 SETSCREW 590953 01 SMALL EXTN SIDE BRKT W/A 20 36 36 37 38 38 38 38 38 38 38 38 38 38 38 38 38	ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
	1 2 3 4 5 6 7 8	590943 01 HSS-0238 WSH-0018 NUT-0269 WOO-0016 HSS-0238 590953 01	SLURRY CANOPY W/A SET SCREW WASHER NUT WOODEN PLANK SETSCREW SMALL EXTN SIDE BRKT W/A	2 20 36 28 2 8	ITEM	PART NO	DESCRIPTION	QII



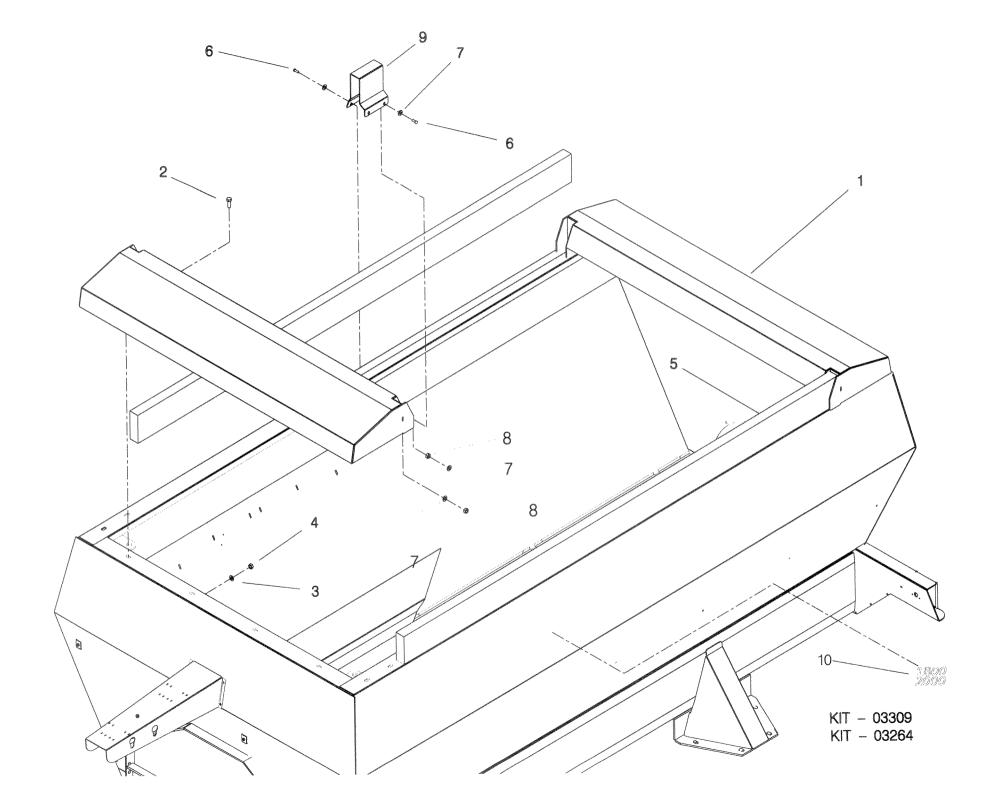
BANGO CONTROL		

ASSY N	NUMBER:	KIT-03275	ASSY	DESCRI	PTION:	WIDE	ANGLE PTO SHAFT (DAIRY)
TEM	PART NO	DESCRIPTION	QTY	ITEM	PART	NO	DESCRIPTION
1 OR 1a	PTO-25100W		1				

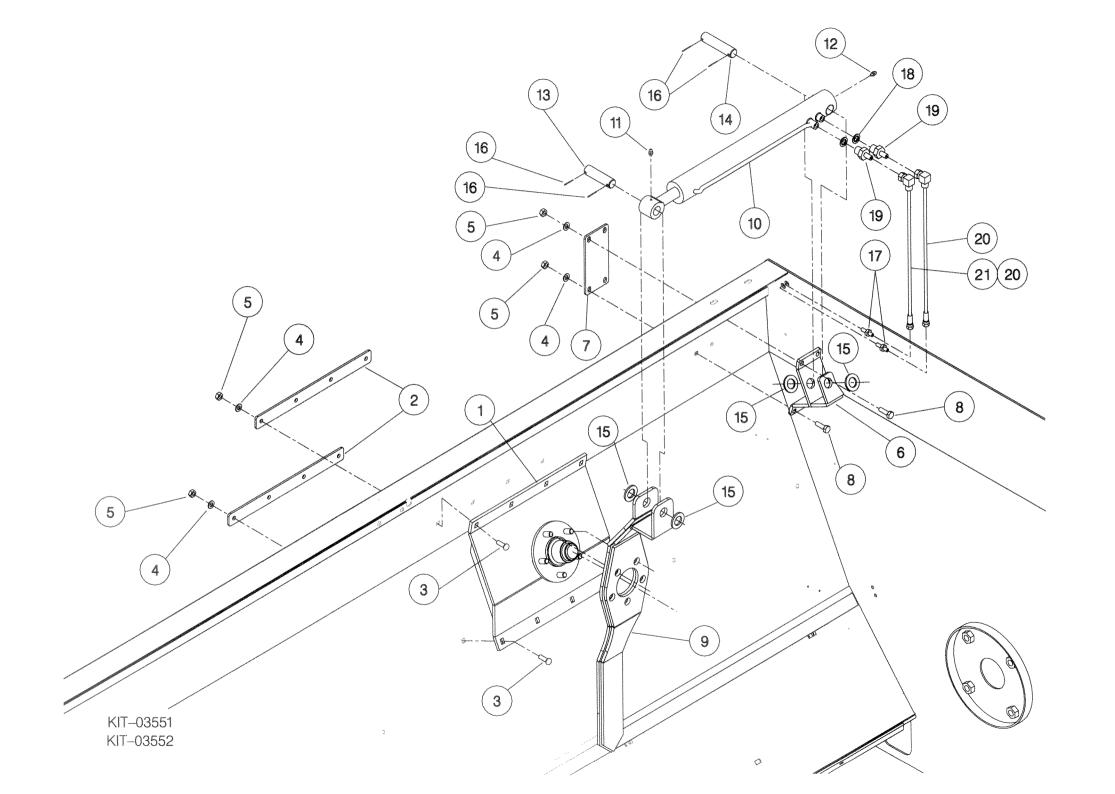
ASSY N	NUMBER:	KIT-03276	ASSY	DESCRI	PTION: STAN	DARD PTO SHAFT (DAIRY)	4 1000
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	
1 OR 1a	PTO-13001W PTO-13001	PTO SHAFT (s/n ????? AND ON) PTO SHAFT (UP TO s/n ?????)	1				
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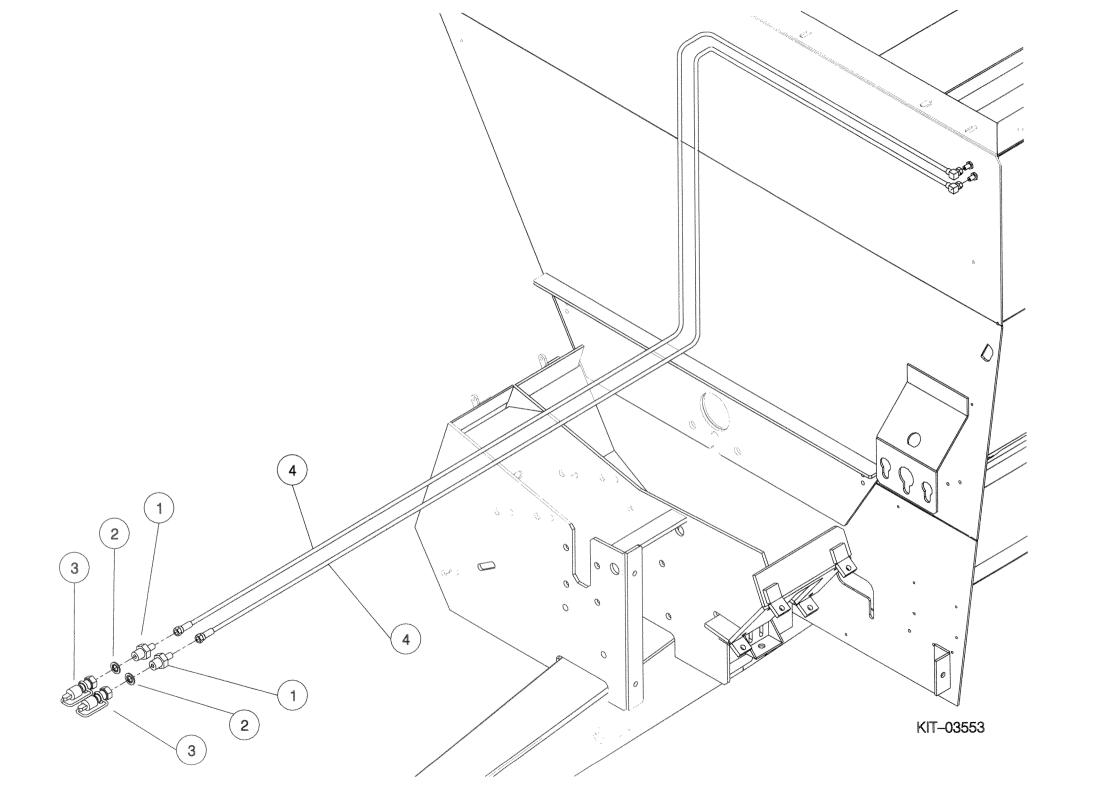
ASSY NUMBER:	KIT-03309	ASSY	DESCRI	DESCRIPTION:12''WOODEN EXT TOP KIT(1600-2000			
TEM PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY	
590944 0 HSS-0238 WSH-0018 WOO-0016 HSS-0193 WSH-0018 B NUT-0268 9 590949 0 591007	SET SCREW WASHER NUT WOODEN PLANK SETSCREW WASHER NUT LARGE EXTN SIDE BRKT W/A	2 20 20 4 8 16 8 2 2					



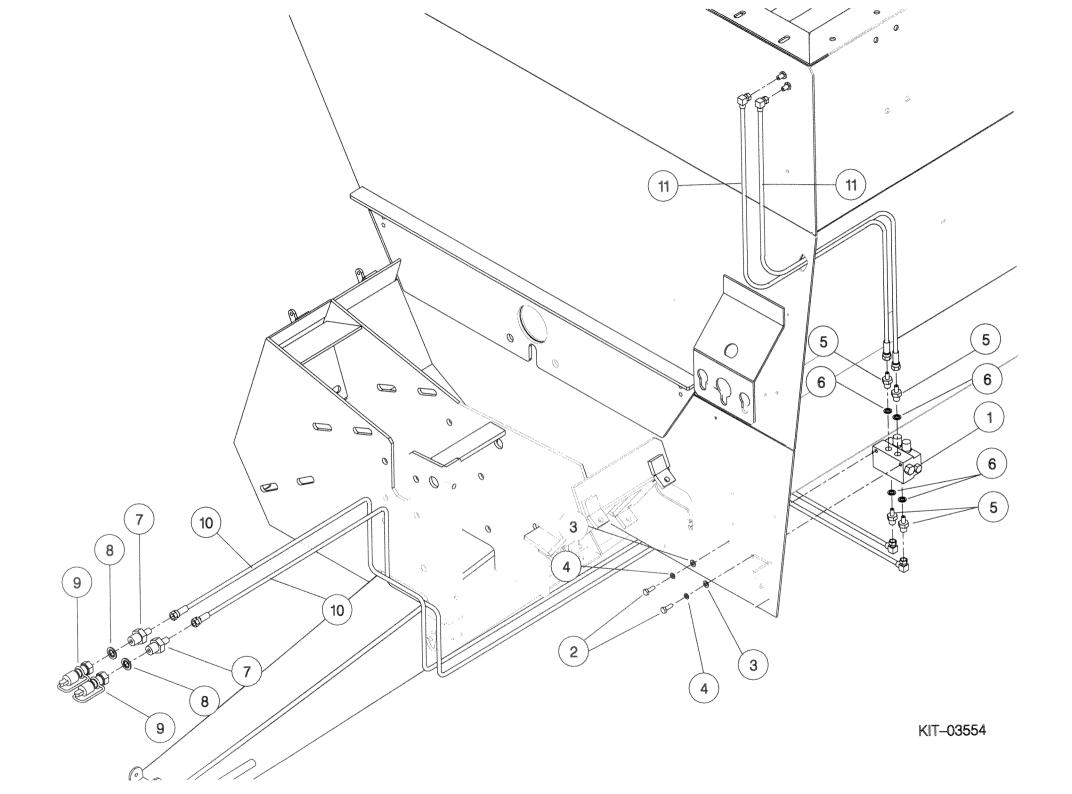
ASSY 1	NUMBER:	KIT-03551	ASSY	DESCRI	PTION: ANTI-BRIDGING KIT	1600DAIRY/CONTRACTOR
TEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	QTY
	591049 01	ARM MOUNTING HUB	1			
2	591030 01	STRENGTHENER BAR	2			
3	BLT-3800	COACHBOLT	8			
Ŀ	WSH-0018	WASHER	12			
5	NUT-0269	NUT	12			
5	591042 01	RAM BRACKET	1			
7	591031 01	STRENGTHENER PLATE	1			an open and a state of the stat
3	HSS-0250	BOLT	4			
9	591045 01	PENDULUM ARM	1			
10	800083 01	HYDRAULIC RAM	1			
10a	RMSK04032	RAM SEAL KIT	1			
11	NIP-00600	GREASE NIPPLE	1			
12	NIP-00605	GREASE NIPPLE	1			
13	591055 01	PIVOT PIN	1			
14	591055 02	PIVOT PIN	1			
15	WSH-1545	WASHER	4			
16	PIN-20629	SPLIT PIN	4			
17	HBK-0012	BULKHEAD FITTING	2			
18	WSH-1005	DOWTY WASHER	2			
19	FIT-0025	HYD ADAPT	2			
20	HHCE03005	HYD HOSE ASSY	1			200
	Light Spirit Control of the Control					
0.3	111101202405	HYD HOSE ASSY	1			
21	HHCEU34U5	MID HOSE ADDI	es-Gues			
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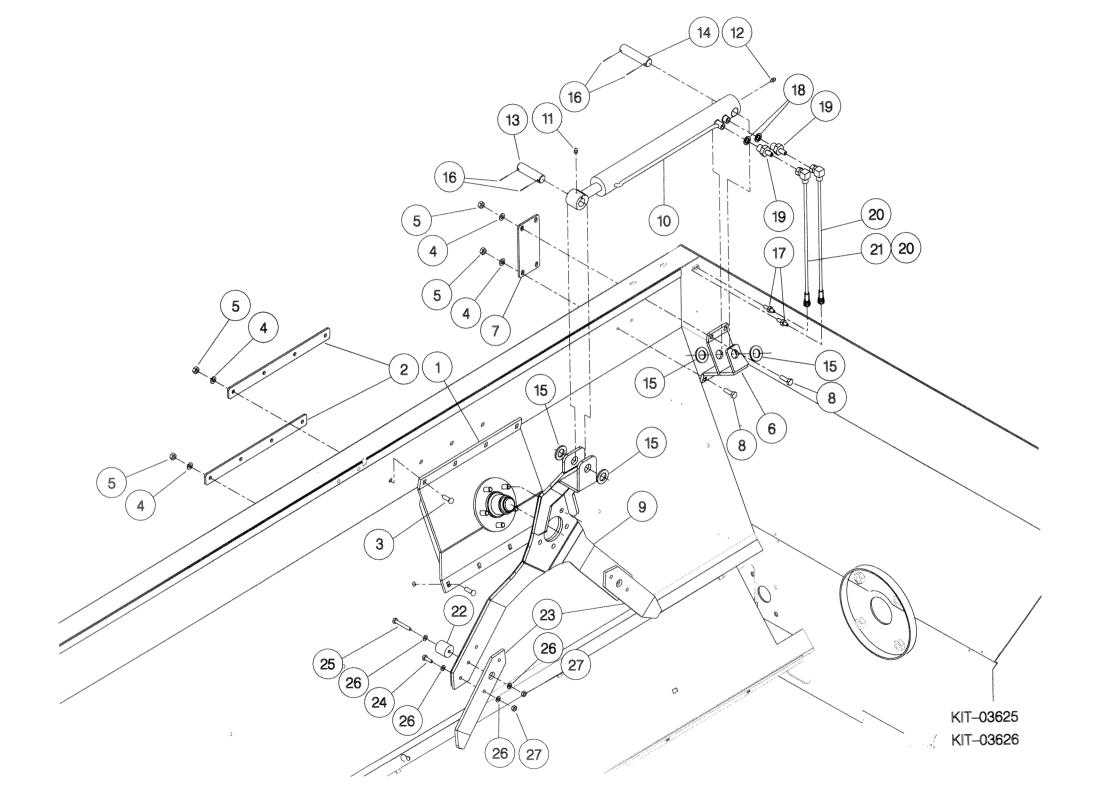
ASSY 1	NUMBER:	KIT-03553	ASSY	DESCRI	PTION: ANTI-BRIDG	ING MANUAL HYDRAULICS KI	
	PART NO	DESCRIPTION	QTY	ITEM	PART NO	Ç	YTÇ
1 2 3 4	PART NO HMA-0065 WSH-1015 COU-0162 HHCE60005	DESCRIPTION ADAPTOR DOWTY WASHER QR COUPLING HYD HOSE ASSY (HFAI72005 x1) (HFAF72005 x1) (HOS104050 x 6m)	QTY 2 2 2 2 2	ITEM	PART NO		QTY



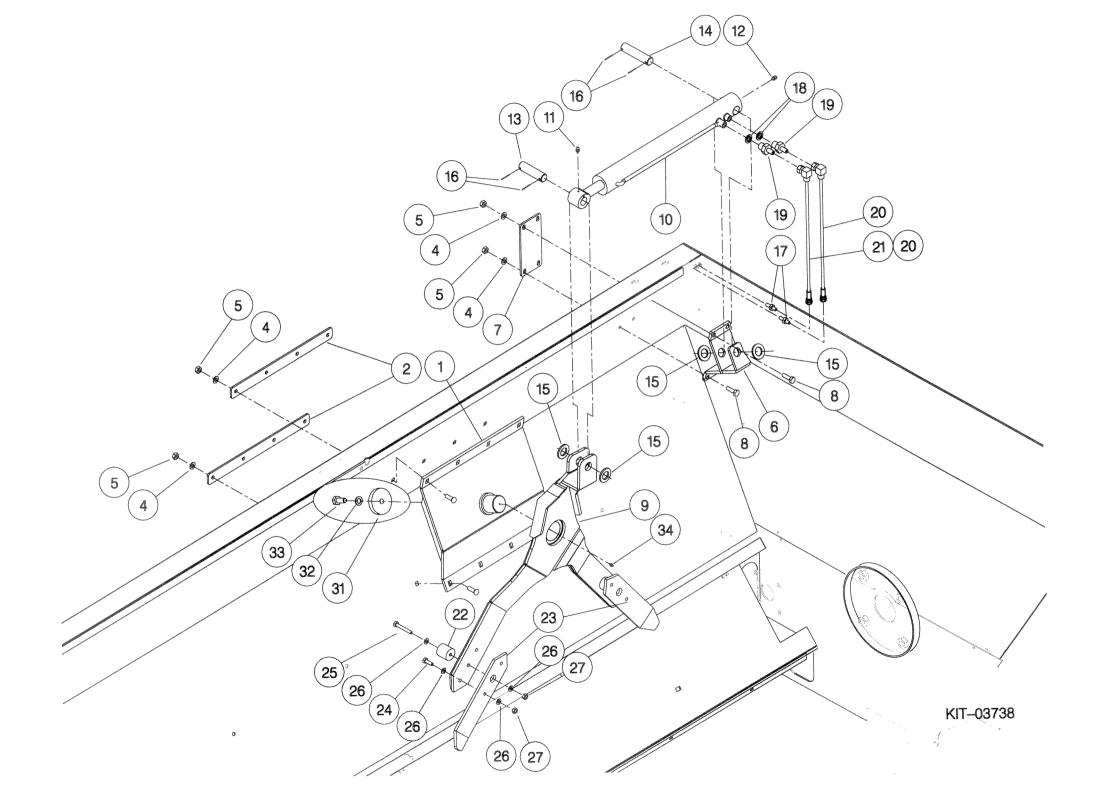
ASSY N	NUMBER:	KIT-03554	ASSY	DESCRI	PTION:	ANTI-	BRIDGING AUTO HYDRAULICS KI	
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART	NO		QTY
1	HVB-25500	RECIPROCATING VALVE	1					
2	HSS-0145	SETSCREW	2					
3	WSH-0012	WASHER	2					
4	WSH-0058	WASHER	2					
5	HMA-0057	ADAPTOR	4					
6	WSH-1010	DOWTY WASHER	4					
7	HMA-0065	ADAPTOR	2					
8	WSH-1015	DOWTY WASHER	2					
9	COU-0162	QR COUPLING	2					
10	HHCE48005	HYD HOSE ASSY	2					
4		(HFAI72005 x 1)	-					
	Transaction of the Control of the Co	(HFAF72005 x 1)	er en					
		$(HOSI04050 \times 4.8)$	0,0	200				
11	HHCE13605	HYD HOSE ASSY	2					
200		(HFAI72005 x1)						
		(HFAF72005 x1)						
		(HOS104050 x 1.36m)						
			and the second s					
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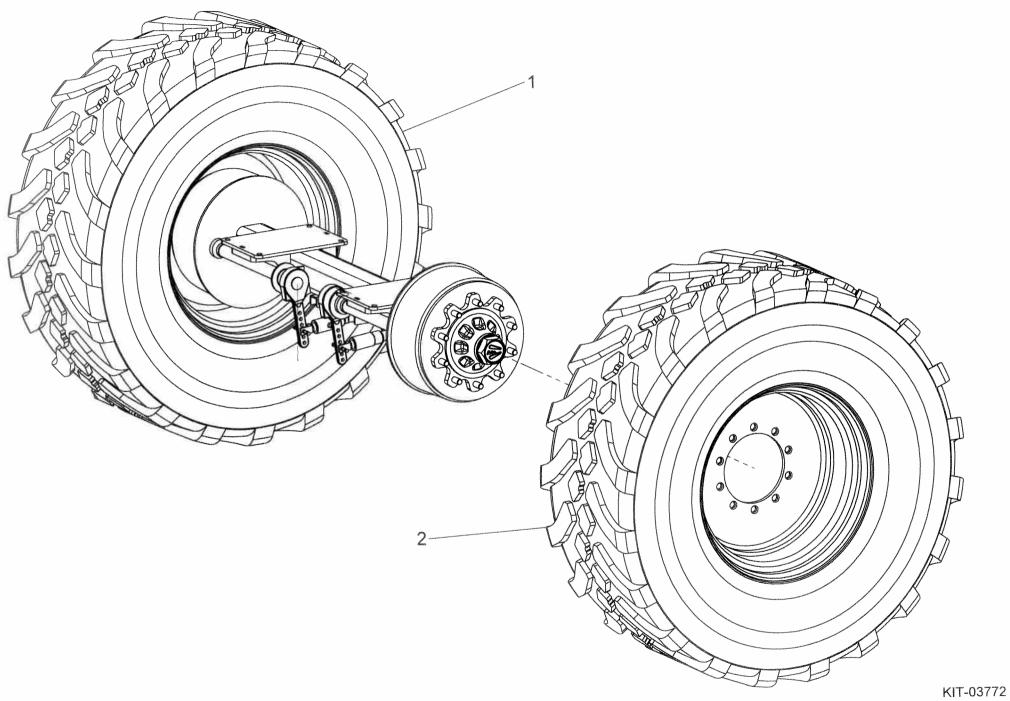
ASSY N	JUMBER:	KIT-03625	ASSY	DESCRI	PTION:	ANTIL-E DAIRY	BRIDGING KIT DOUBLE ARM CONTRACTOR	1000
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART			QT
1	591049 01	ARM MOUNTING HUB	1					000-000
2	591030 01	STRENGTHENER BAR	2					
3	BLT-3800	COACHBOLT	8					
4	WSH-0018	WASHER	12					
5	NUT-0269	NUT	12					
6	591042 01	RAM BRACKET	1					
7	591031 01	STRENGTHENER PLATE	1					L.
8	HSS-0250	BOLT	4					
9	591073 01	PENDULUM DOUBLE ARM	1				Personal Control of the Control of t	
10	801236 01	HYDRAULIC RAM, 35mm ROD	1					our constitution and
OR	800083 01	HYDRAULIC RAM, 32mm ROD	1					
10a	RMSK00320	RAM SEAL KIT, 35mm ROD						
OR	RMSK00290	RAM SEAL KIT, 32mm ROD						
OR	RMSK04032	RAM SEAL KIT, 32mm ROD	Living				TO COMPANY	
11	NIP-00600	GREASE NIPPLE	1					
12	NIP-00605	GREASE NIPPLE	1					
13	591055 01	PIVOT PIN	1					
14	591055 02	PIVOT PIN	1		inamento de la companya del companya de la companya del companya de la companya d			
15	WSH-1545	WASHER	4					
16	PIN-20629	SPLIT PIN	4					
17	HBK-0012	BULKHEAD FITTING	2					
18	WSH-1005	DOWTY WASHER	2					
19	FIT-0025	HYD ADAPT	2					
20	HHCE03005	HYD HOSE ASSY	1					la management de la deservación dela deservación de la deservación
21	HHCE03405	HYD HOSE ASSY	1					
22	591072 01	NYLON SUPPORT	2					
23	591071 01	ARM EXTENTION	2					
24	HSS-0202	SETSCREW	4		A. A. C.			
25	HSSA10440	SETSCREW	2					e announce de la constant de la cons
26	WSH-0015	PLAIN WASHER	12				a de la constanta de la consta	Market Control
27	NUT-0265	NUT NYLOCK	6		and to the second		in discourage.	
A 1								***
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				200000000000000000000000000000000000000				



ASSY :	NUMBER:	KIT-03738	ASSY	DESCRI	PTION:	ANTI	-BRIDGING KIT DOUBLE ARM 1600	
TEM	PART NO	DESCRIPTION	QTY	ITEM	PART		1, 5011 1101010101	QTY
	591121 01	BRIDGE ARM MTG PLATE W/A	1					
2	591030 01	STRENGTHENER BAR	2					
3	BLT-3800	COACHBOLT	8					
1	WSH-0018	WASHER	12					
5	NUT-0269	NUT	12					
5	591042 01	RAM BRACKET	1					
7	591031 01	STRENGTHENER PLATE	1					
	HSS-0250	BOLT	4					
8	591134 01		1					upo para de la companya de la compan
9	001226 01	HYDRAULIC RAM, 35mm ROD	1					
10	DWGKU033U	RAM SEAL KIT, 35mm ROD						
10a	NIP-00600		1					
11	NIP-00605		1					
12	591055 01		1					
13	1		1					
14	591055 02	WASHER	4					and the second
15	WSH-1545	1	4					
16	PIN-20629	BULKHEAD FITTING	2					
17	HBK-0012	DOWTY WASHER	2					
18	WSH-1005	HYD ADAPT	2					
19	FIT-0025		1					
20	HHCE03005		1					
21	HHCE03405		2					
22	591072 01		2					
23	591071 01		4					
24	HSS-0202	SETSCREW	2					
25	HSSA10440	SETSCREW	12					Name of State
26	WSH-0015	PLAIN WASHER	6					
27	NUT-0265	NUT NYLOCK	1		n			
28	BSHA06565	BUSH	1 +		our service se			
29		(277 6 2777 0 6)	1					
30	NUT-0271	NUT (M16 NYLOC)						
31	190548 72		1					V, Commission of the Commissio
32	WSHA30161		1					
33	HSSA16200		1	200000000000000000000000000000000000000				-
34	NIP-00600	GREASE NIPPLE(M6)	1					
	n de la communicación de l							
					A CONTRACTOR OF THE CONTRACTOR			

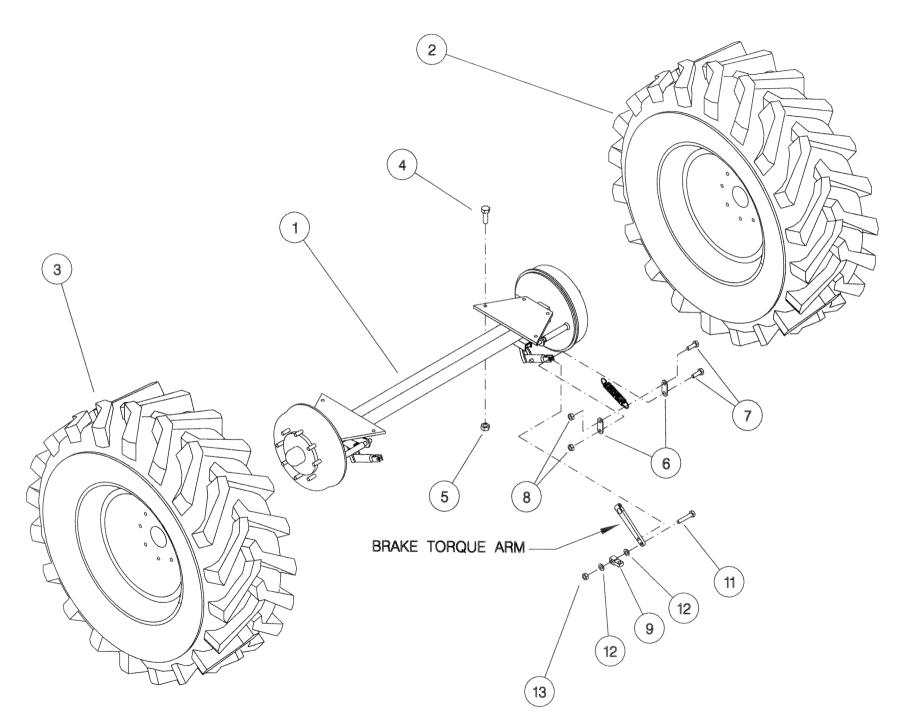


ASSY 1	NUMBER:	KIT-03772	SUB A	ASSY DE	ESCRIPTION: W	HEEL & TYRE KIT(23.1-2	6 ALLIANCE)
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1 2	WHL-02618 WHL-03619	LH WHEEL & TYRE ASSY(8 STD) RH WHEEL & TYRE ASSY(8 STD)	1				



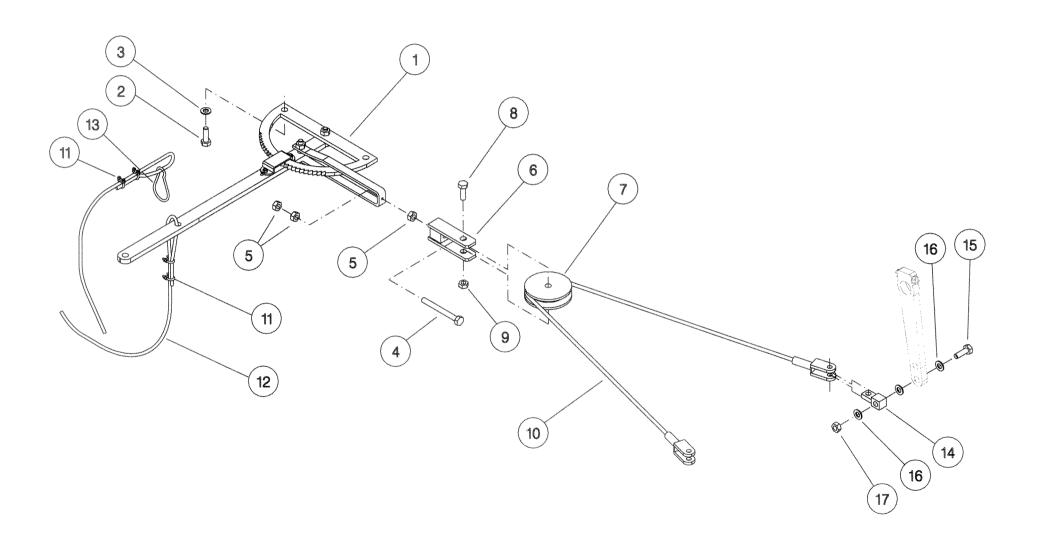
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ASSY	NUMBER: 60	9000 01	ASSY	DESCRI	PTION: AX	KLE SUB ASSY-POWERSPREAD
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION QTY
1	607037 01	AXLE WELD ASSY	1	STOCK COLUMN TO THE STOCK		
OR		(FOR SERIAL No.88103 & DOWN	4)			
la l	590445 01	AXLE WELD ASSY	1			
		(FOR SERIAL No.88104 & UP)				
2a	WHL-02801	L.H.WHEEL & TYRE 630 ONLY	1		WHEEL &	TYRE SUB ASSY - (609000 01SB1)
		16.5/85-28(10PLY,M18x8,275)	pcd)			
2b	WHL-02601	L.H.WHEEL & TYRE 18.4-26	1		WHEEL &	TYRE SUB ASSY - (609000 01SB2)
		12PLY RAD.M18x8 ON 275pcd)				
2c	WHL-02402	L.H WHEEL & TYRE 21.3-24	1		WHEEL &	TYRE SUB ASSY - (609000 01SB3)
		12PLY RAD.M18x8 ON 275pcd)				1600000 04.574)
2d	WHL-02612	L.H WHEEL TYRE 600.55-26.	P I		WHEEL &	TYRE SUB ASSY - (609000 01SB4)
2e	WHL-02616	12PLY RAD.M18x8 ON 275pcd) L.H WHEEL & TYRE 23.1-26	1		ר.זווייויד ר	MYDE CUD ACCY (COOCO OIGDE)
Ze	MUT-05010	12PLY RAD.M18x8 DNEPROSHINA	E		WHEEL &	TYRE SUB ASSY - (609000 01SB5)
2f	WHI -026163	L.H WHEEL & TYRE 23.1-26	1		WILLELL C	TYRE SUB ASSY - (609000 01SB6)
6-	WIIII OZOTOW	14PLY RAD.M18x8 STARMAXX	1		WIIEEE Q	11RE 30B A331 - (003000 013B0)
3a	WHL-02800	R.H.WHEEL & TYRE 630 ONLY	1		WHEET. &	TYRE SUB ASSY - (609000 01SB1)
	***************************************	16.5/85-28(10PLY, M18x8, 275)			WIIDDD G	TING BOD MBDI (009000 010DI)
3b	WHL-02600	R.H.WHEEL & TYRE 18.4-26	1		WHEEL &	TYRE SUB ASSY - (609000 01SB2)
		12PLY RAD.M18x8 ON 275pcd)				
3c	WHL-02403	R.H.WHEEL & TYRE 21.3-24	1		WHEEL &	TYRE SUB ASSY - (609000 01SB3)
	for all and a second a second and a second a	12PLY RAD.M18x8 ON 275pcd)				
3d	WHL-02613	R.H WHEEL & TYRE 600.55-26	51		WHEEL &	TYRE SUB ASSY - (609000 01SB4)
		12PLY RAD.M18x8 ON 275pcd)				
3e	WHL-02617	R.H WHEEL & TYRE 23.1-26	1		WHEEL &	TYRE SUB ASSY - (609000 01SB5)
2.5	00617	12PLY RAD.M18x8 DNEPROSHINA	1			
3f	WHL-0261/a	R.H WHEEL & TYRE 23.1-26	1		WHEEL &	TYRE SUB ASSY - (609000 01SB6)
	1100 0210	14PLY RAD.M18x8 STARMAXX				
4 5		BOLT (M16 NYLOG)	8			
5	NUT-0271 590153 01	NUT(M16 NYLOC) BRAKE RAM PLATE	8 8 4 4			
7	HSS-0265	SETSCREW(M12x55)	4			
8	NUT-0269	NUT (M12 NYLOC)	4			
9	590062 01	BRAKE LINK PIVOT	2	200000000000000000000000000000000000000		
10		nous no no to be desired and what the total to the same of the V CV dis	-			
11	HSS-0210	SETSCREW(M10x50)	2			
12	WSH-0015	WASHER (M10 PLAIN)	4			
13	NUT-0265	NUT(M10 NYLOC)	2			

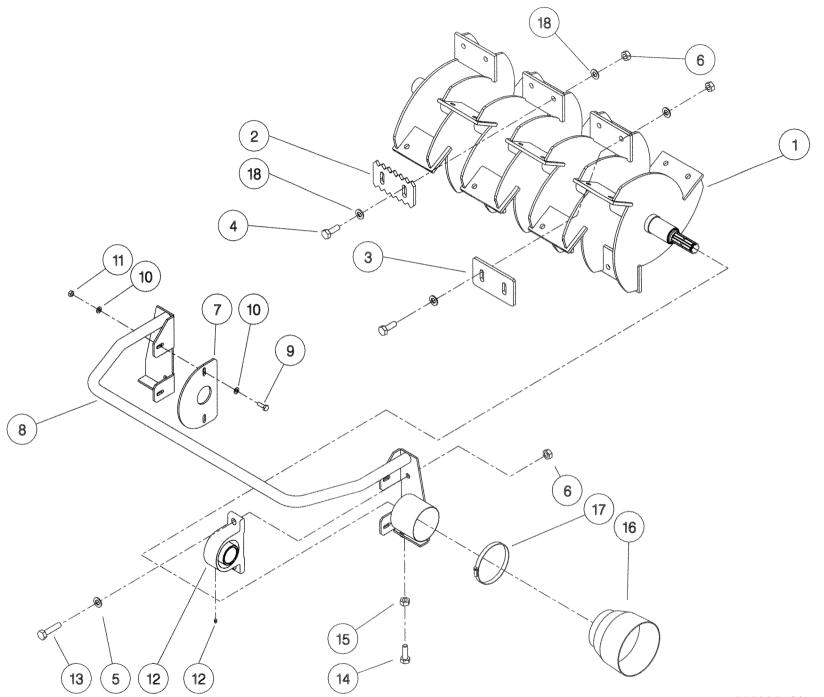


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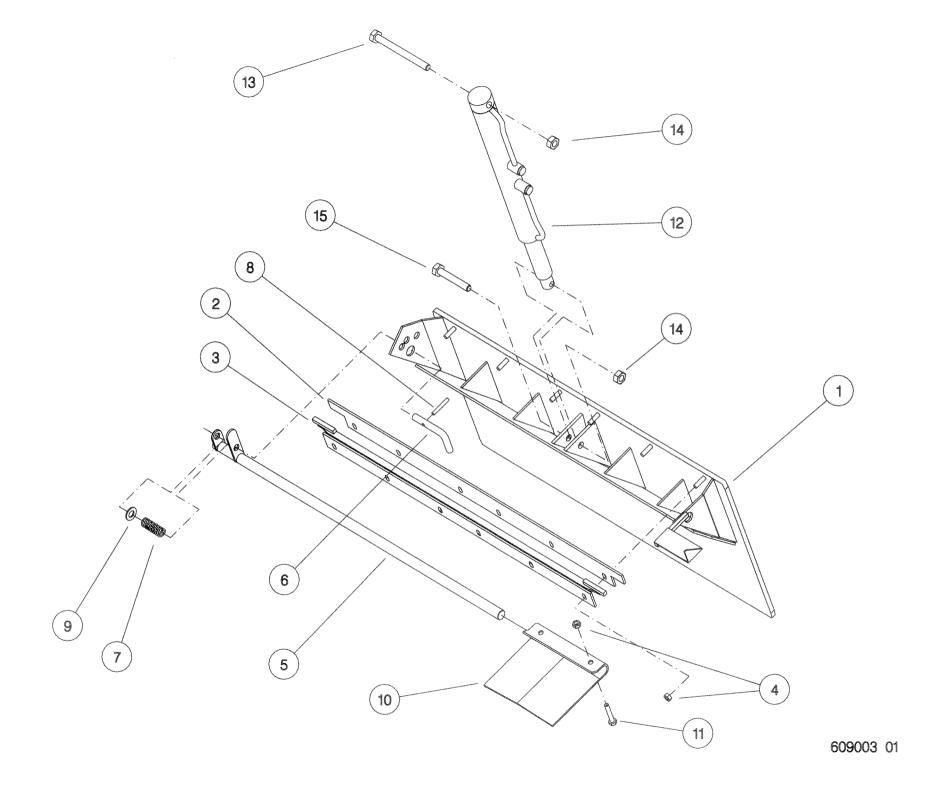
ASSY N	NUMBER:	609001 01	ASSY	DESCR	IPTION:	HANDBRAKE SUB ASSY	
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1	590222 01	HANDBRAKE LEVER ASSY	1				
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	HSS-0238 WSH-0065 HSSA10740 NUT-0167 590060 01 590101 01 BLT-2252 NUT-0269 590072 01 WRP-02040 WRP-03000 590062 01 HSS-0210 WSH-0015 NUT-0265	SETSCREW WASHER SETSCREW NUT PULLEY CLEVIS W/ASSY NYLON PULLEY BOLT NUT CABLE ASSY WIRE ROPE CLAMPS CABLE SNAP HOOK BRAKE LINK PIVOT SETSCREW WASHER NUT	2 2 1 3 1 1 1 1 4 4.6m 1 2 2 6 2				



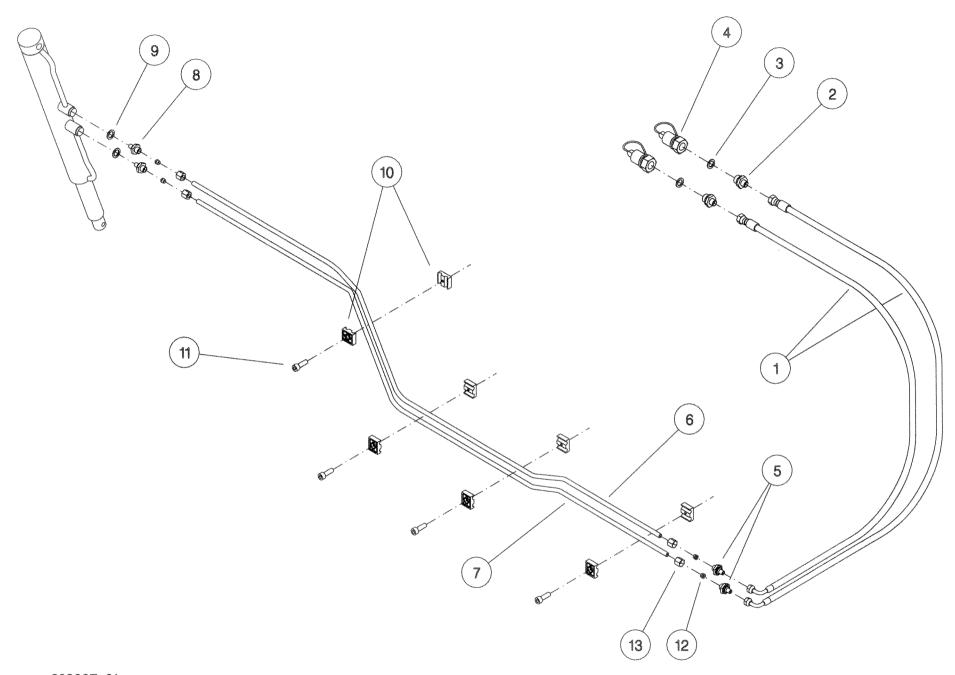
ASSY	NUMBER:	609002 01	ASSY	DESCR	IPTION:	DISCHARGE ROTOR SUB ASSY	
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1 2 3 4 5	604984 01 604682 01 590152 01 HSS-0318 WSH-0024 NUT-0271	IMPELLER WELD ASSY IMPELLER BLADE IMPELLER BLADE SETSCREW WASHER NUT(M16 NYLOC)	1 12 6 36 4 40		E604984 E604682		
7 8 9 10	590165 01 601861 01 HSS-0194 WSH-0015	BEARING PROTECTION PLATE IMPELLER GUARD W/ASSY SETSCREW WASHER	2 1 4 8 4		E601861		
11 12	NUT-0265 BRG-25540	NUT BEARING	2		EBP 0124		
13 14	BLT-2314 HSS-0320	BOLT SETSCREW	4 2				
15 16 17 18 19	NUT-0380 PTO-00901 CLP-00585 WSHA30161 NIP-0001	NUT PLASTIC CONE SHROUD JUBILEE CLIP WASHER GREASE NIPPLE	2 1 1 72 2		EST 2577 EFJ 0310		
*Andrewson and an analysis and a second							
diagnostico compressor de la compressor							
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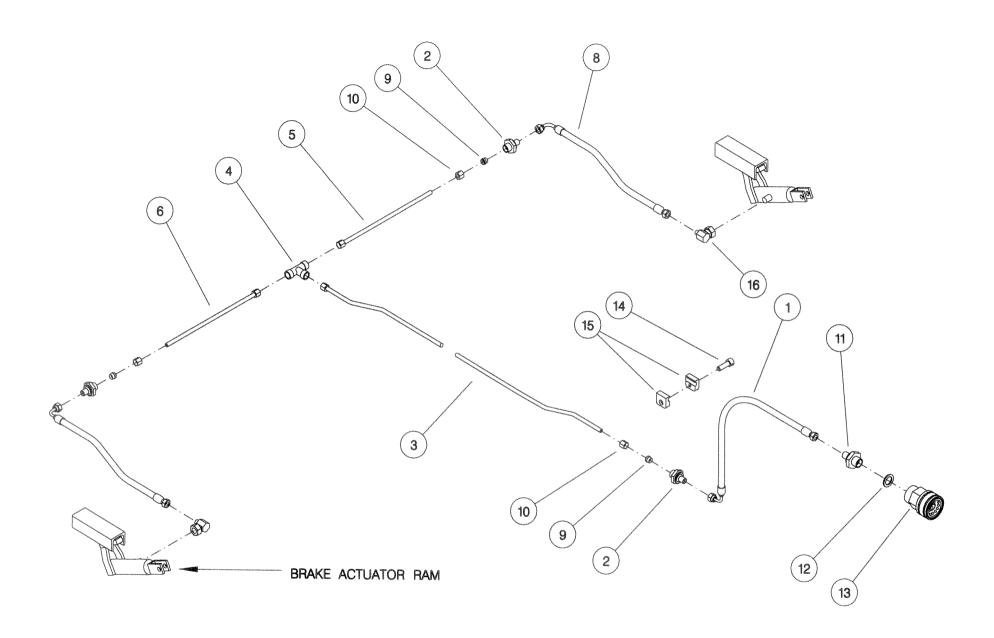
ASSY	NUMBER:	609003 01	ASSY	DESCR	IPTION:	DISCHARGE DOOR SUB ASSY	99-99-4-9-99-99-99-99-99-4
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	601802 01 606545 01 601829 01 NUT-0265 604992 01 605085 01 SPGC32021 PIN-1775 WSH-0024 605018 01 BLTF10323 590114 01 BLT-2325 NUT-0271 BLT-2316	DISCHARGE DOOR W/ASSY TOP DOOR SEAL SEAL CLAMP PLATE NUT (M10 NYLOC) DOOR LEVER HANDLE SPRING ROLL PIN WASHER (M16 PLAIN) DEFLECTOR PADDLE COACH BOLT (M10×50) DOOR RAM (GES HYDRAULICS REF.08HR 0620-DOUBLE ACTING BOLT (M16×110) NUT (M16 NYLOC) BOLT (M16×80)	1 1 1 1 1 1 1 1 3 6 1 2 1		E601802 E606545 E601829 E604992 E605085 EFS 0094 EPB06020 E605018 EBCV10050 EHR 0620		



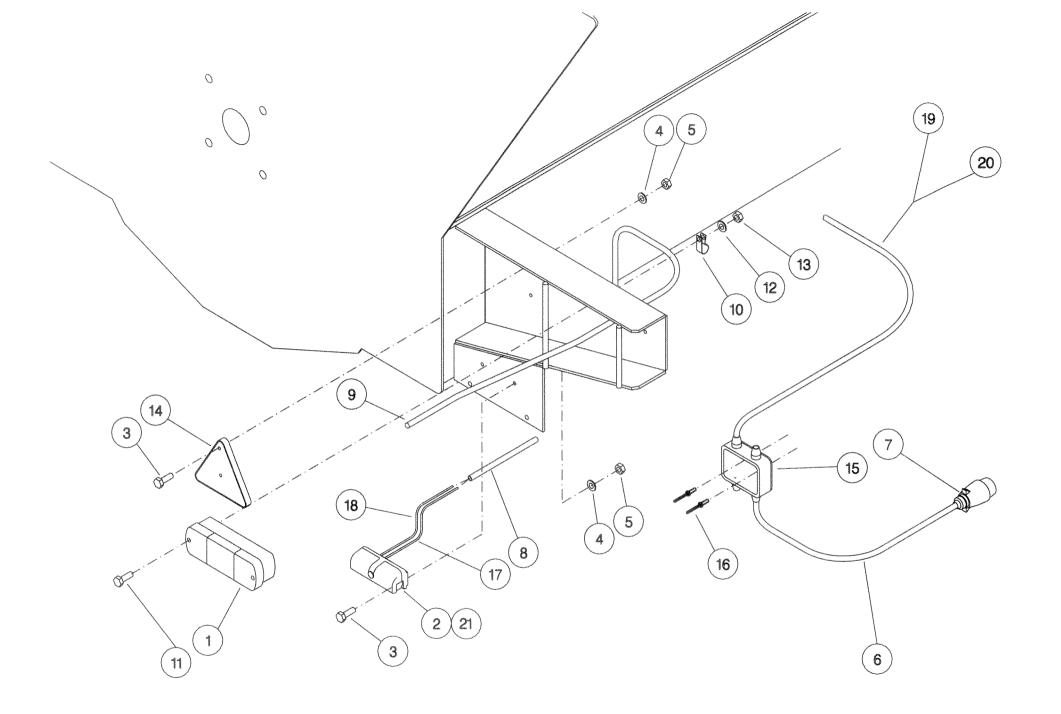
ASSY	NUMBER:	609007 01	ASSY	DESCR	IPTION:	DOOR RAM HYDRAULICS SUB ASS	Y
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1 2 3 4 5 6 7 8 9 10 11 12 13	HHBC30005 HMA-0055 WSH-1015 COU-0162 FIT-0047 590139 01 590139 02 HPTD01005 WSH-1010 HCPD01000 SCW-0083 FIT-0056 FIT-0051	FLEX HOSE (1/4"Bx1/4"STRGHT BSP/1/4"SWEPT 90 BSPx3mLONG ADAPTOR (1/4"-1/2"BSP.M/M) WASHER (1/2" DOWTY) Q-R COUPLING (1/2" BSP) STUD COUPLING (1/4"BSPx10mm 0.D. TUBE) TUBE (10mmDIA STEELx2.1m) TUBE (10mmDIA STEELx2.1m) STUD COUPLING (3/8"BSPx10mm 0.D. TUBE) WASHER (3/8" DOWTY) HYD.PIPE CLAMP (2x10mm) SCREW (CAP HD.M6x20mm) OLIVE (10mm DIA TUBE) NUT (10mm DIA TUBE)	2 2 2 2 2 2				



ASSY	NUMBER:	609011 01	ASSY	DESCR	IPTION:	BRAKE RAMS HYDRAULIC SUB AS	SSY
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1 2 3 4 5 6 7 8 9 10 11 2 13 14 15 16	HHBC32005 FIT-0047 590140 01 FIT-0060 RP-100330 RP-100610 HHBC03005 FIT-0056 FIT-0051 HMA-0055 WSH-1015 HQR-10007 FIT-1000 SCW-0083 HALAA0305	FLEX HOSE (1/4"Bx1/4"STRGHT BSP/1/4"SWEPT 90 BSPx3.2m) STUD COUPLING (1/4"BSPx10mm O.D. TUBE) TUBE (10mmDIA STEELx2.9m) TEE FITTING (ALL ROUND ENDS TO SUIT 10mm STEEL TUBE) TUBE (10mmDIA STEELx0.33m) TUBE (10mmDIA STEELx0.61m) FLEX HOSE (1/4"Bx1/4"STRGHT BSP/1/4"SWEPT 90 BSPx0.3M) OLIVE (FOR 10mm O.D. PIPE) NUT (10mm CLAMPING NUT) ADAPTOR (1/4"x1/2"BSP M/M) DOWTY WASHER (1/2"BSP) HYD.Q.R.COUPLING (BRAKE) HYD.PIPE CLAMP (1x10mm) SCREW (CAP HD.M6x20mm) HYDRAULIC ELBOW (1/4"BSPM 3/8"BSPF 90DEG.COMPACT)	1 1 1				

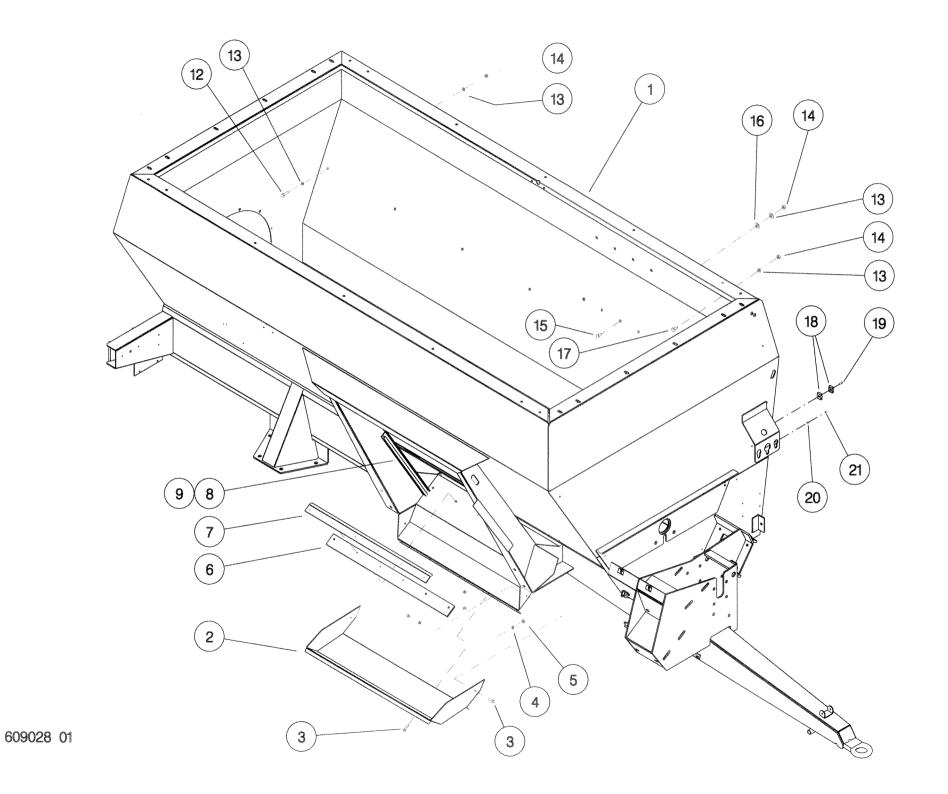


ASSY	NUMBER:	609021 01 (PHANTOM)	ASSY	DESCRI	PTION: LIG	GHTS SUB ASSY	
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	OTY
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	LMP-0007 LMP-0009 HSS-0065 WSH-0006 NUT-0258 CBL-03530 PLG-0005 SLV-00010 ETM-00130 CLP-0030 HSS-0086 WSH-0009 NUT-0260 REF-0030 JNC-00000 POP-0007 CBL-00325 CBL-00125 CBL-03210 CBL-03210 ETM-00560	REAR LIGHT CLUSTERS No. PLATE LIGHT SETSCREW WASHER NUT CABLE 7 PIN MALE PLUG SLEEVING SPADE TERMINAL FEMALE "P" CLIP SETSCREW WASHER NUT REFLECTOR TRI-ANGLE JUNCTION BOX POP RIVET) CABLE CABLE CABLE CABLE ELEC BULLET TERMINAL	2 1 6 6 8m 1 0.7m 10 8 12 12 12 2 0.7m 0.8m 2m 2				

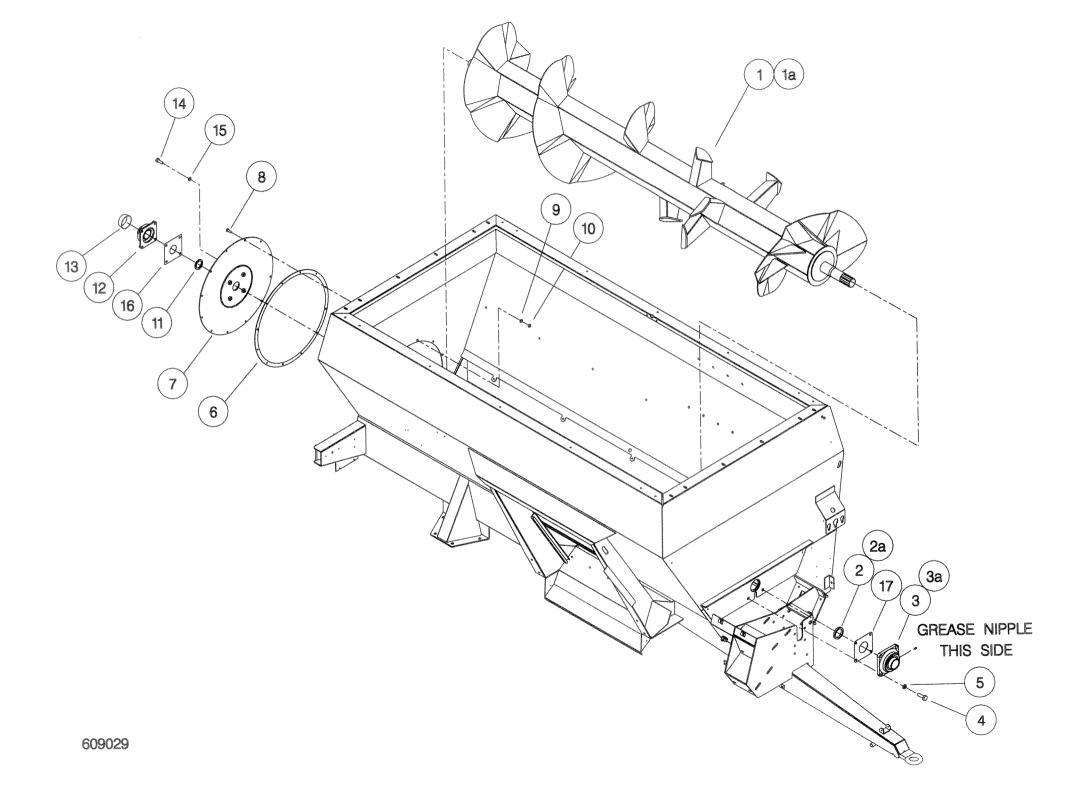


ASSY NUMBER:	609028 01	ASSY	DESCRI	PTION:	MAIN BODY SUB ASSY(DAIRY)	
ITEM PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1 590569 01 2 605298 01 3 HSS-0145 4 WSH-0012 5 NUT-0263 6 605328 01 7 605336 01 8 ER50-132 9 ER50-132	POWERSPREAD WELD ASSY ANTI-DRIP TRAY SETSCREW WASHER NUT BOTTOM DOOR SEAL DOOR SEAL KEEP PLATE RUBBER SEALING STRIP RUBBER SEALING STRIP	1 1 7 13 13 1 1 0.8m 0.8m				
12 HSS-0238 13 WSH-0018 14 NUT-0269 15 BLT-3790 16 WSH-0024 17 HSS-0235 18 HCPD01200 19 SCW-0089 20 WSH-0009 21 NUT-0260	SETSCREW WASHER NUT COACHBOLT WASHER SETSCREW HYD.PIPE CLAMP SCREW WASHER NUT	6 24 18 8 8 4 1 1 1 1				

TITEM	ASSY	NUMBER:	609028 02	ASSY	DESCR	IPTION:	MAIN BODY SUB ASSY(1400 DAI	RY)
2	ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
	1 2 3 4 5 6 7 8 9 10 11 12 13	590960 01 605298 01 HSS-0145 WSH-0012 NUT-0263 605328 01 605336 01 ER50-132 ER50-132 HSS-0238 WSH-0018	POWERSPREAD WELD ASSY ANTI-DRIP TRAY SETSCREW WASHER NUT BOTTOM DOOR SEAL DOOR SEAL KEEP PLATE RUBBER SEALING STRIP RUBBER SEALING STRIP SETSCREW WASHER	1 1 7 13 13 1 1 0.7m 0.7m				



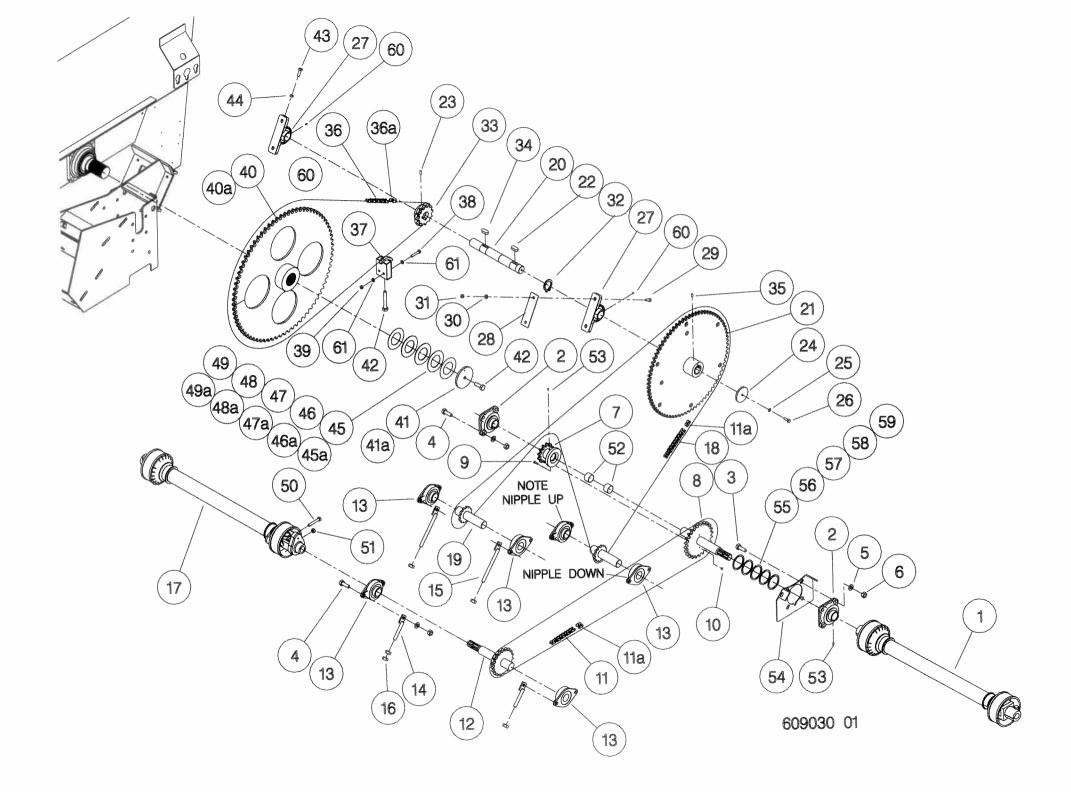
7, CCV	NUMBER:	609029 01	ASSY	DESCRI	PTION:	AUGER & AUGER FIXING KIT (DAIRY)
	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
TEM	590646 01	AUGER ASSY (129100 & UP)	1				ille Campanga pankasa kanan menanakkiki.
OR la	590559 01 SEAB09020	AUGER ASSY (128100 & DOWN) SHAFT SEAL (No 129100 & UP)	1 1				
OR 2a	SEAF07500	SHAFT SEAL (No 128100 & DOWN)	1	Listande operation in the second of the seco			
3 OR	BRG-29040	FRONT END BEARING	1	La Ary e color de la color de			man de ANNO ANNO ANNO ANNO ANNO ANNO ANNO ANN
3a	BRG-27540	FRONT-END BEARING	1				
4 5 6 7 8 9 10 11 12 13 14 15 16 17	BLT-2366 WSH-0075 604852 01 590575 01 HSS-0241 WSH-0018 NUT-0269 SEAF06000 BRG-26040 BRG-96000 HSS-0318 WSH-0070 590615 01 590645 01	SETSCREW PLAIN WASHER NYLOC NUT SHAFT SEAL REAR-END BEARING BEARING CAP SETSCREW SPRING WASHER SPACING DISC	4 4 1 1 1 1 2 12 1 1 1 4 4 1 1				



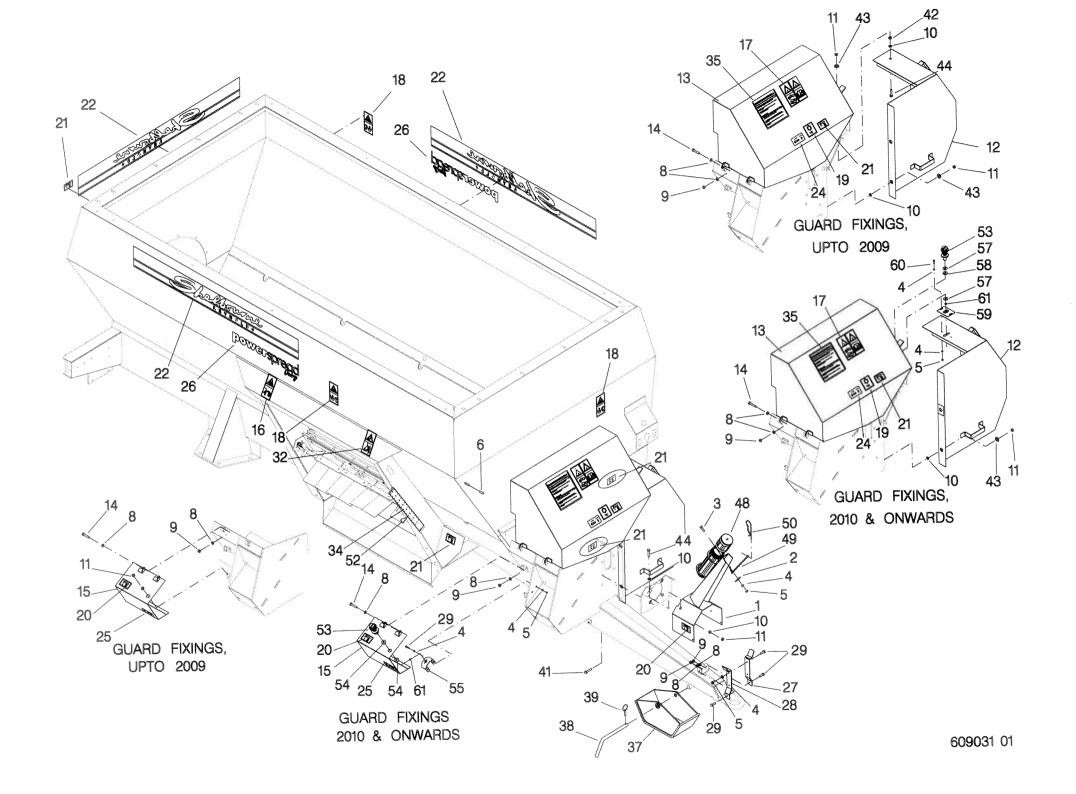


ASSY	NUMBER:	609030 01	ASSY	DESCR	IPTION:	DRIVE SUB ASSY (DAIRY)	
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1 2	BRG-24541	BEARING	2	29 30	BLTA12380 WSH-0018	BOLT WASHER	4 4 4
3	HSS-0319	BOLT	4	31 32 33	NUT-0269 CIR-0450 604895 01	NUT CIRCLIP SPROCKET	1 1 1
4 5 6 7 8	HSS-0318 WSH-0024 NUT-0271 590585 01 590584 01	BOLT WASHER NUT DRIVE HUB SPROCKET INPUT SHAFT W/A	16 24 20 1	34 OR 35 36	KEYA21260 K1212045 SCW-4602 CHN-03280	KEYS/No 120103 KEYUPTO INC S/No119103 GRUBSCREW CHAIN	1 1 2 1
9 10 11	BLTA06264 NUT-0260 CHN-02580	SHEARBOLT NYLOC NUT CHAIN	6 6 1	36a 37 38	CHN-03200 590203 01 BLTA10440	CONNECTING LINK CHAIN TENSION BLOCK BOLT	1 1 2
11a 12 13	CHN-02500 604712 01 BRG-24542	CONNECTING LINK IMPELLER LAY SHAFT BEARING	2 1 6	39 40 OR 40a	NUT-0265 590649 01 590577 01	NUT SPROCKET (No.129100 & UP) SPROCKET (No.128100 & DOWN)	2 1 1
14 15 16 17	604771 01 604771 02 NUT-0180 PTO-14001W	TENSION ADJUSTER-SHORT TENSION ADJUSTER LONG PLAIN NUT PTO SHAFT	2 2 8 1	41 OR 41a	590650 01 601489 01	RETAINING WASHER(129100 & UI AUGER ENDCAP (128100 & DOWN)	1
OR 17a 18	PTO-14001 CHN-02581	(s/n ?????? AND ON) PTO SHAFT (UP TO s/n ??????) CHAIN	1	42 43 44 45	HSS-0322 HSS-0265 NUT-0170 590651 01	SETSCREW ADJUSTER SETSCREW NUT SHIM(No.129100 & UP)	2 4 4 2
19 20 21 22 23 24 25 26 27	590572 01 604747 01 590581 01 K1220045 SCW-4600 604917 01 WSH-0061 HSS-0194 BRG-24543	LAY SHAFT AUGER DRIVE LAY SHAFT SPROCKET KEY GRUB SCREW RETAINING WASHER WASHER SETSCREW BEARING	2 1 1 1 2 1 1 1 2	45a 46a 47 47a 48a 48a 49 49a 50	590616 01 590651 02 590616 02 590651 03 590616 03 590651 04	SHIM(No.128100 & DOWN) SHIM(No.129100 & UP) SHIM(No.128100 & DOWN) SHIM(No.129100 & UP) SHIM(No.128100 & DOWN)	2 2 2 2 2 2 2 6
28	607010 01	SHIM PLATE	2	51	NUT-0263	NUT	6

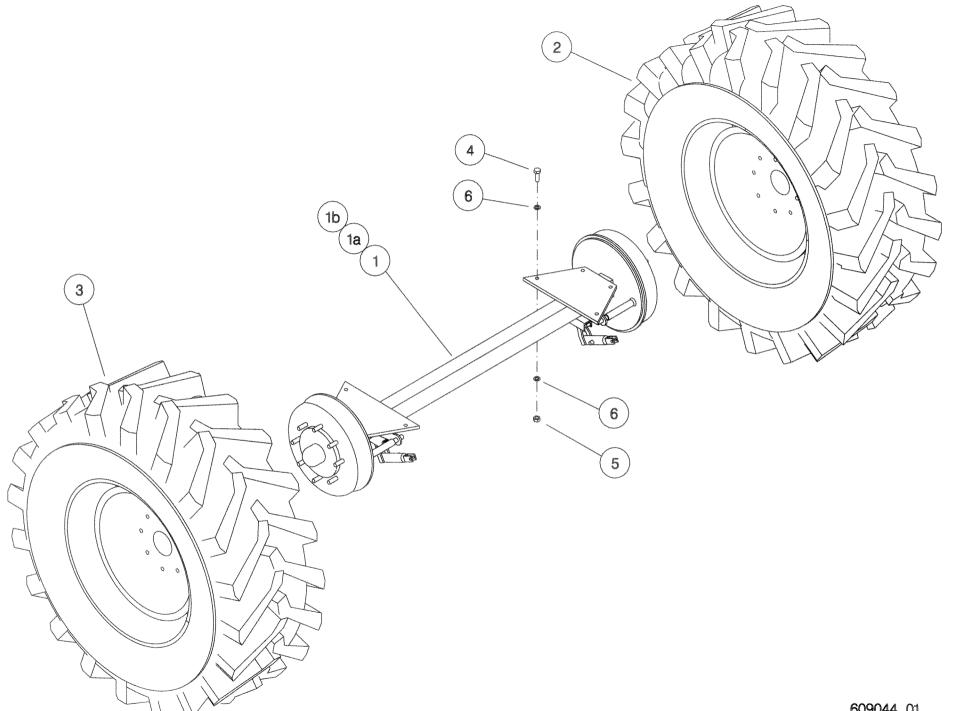
ASSY NUMBER:	609030 01 (cont)	ASSY	DESCR	IPTION:	DRIVE SUB ASSY (DAIRY)	
ITEM PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
BSH-3019 NIP-00610 590460 01 590652 02 590652 03 590652 04 590652 05 NIP-0001 WSH-0015	GUARD MOUNT PLATE INPUT SHAFT SHIM INPUT SHAFT SHIM INPUT SHAFT SHIM INPUT SHAFT SHIM	2 1 1 2 2 2 2 2 2 4				



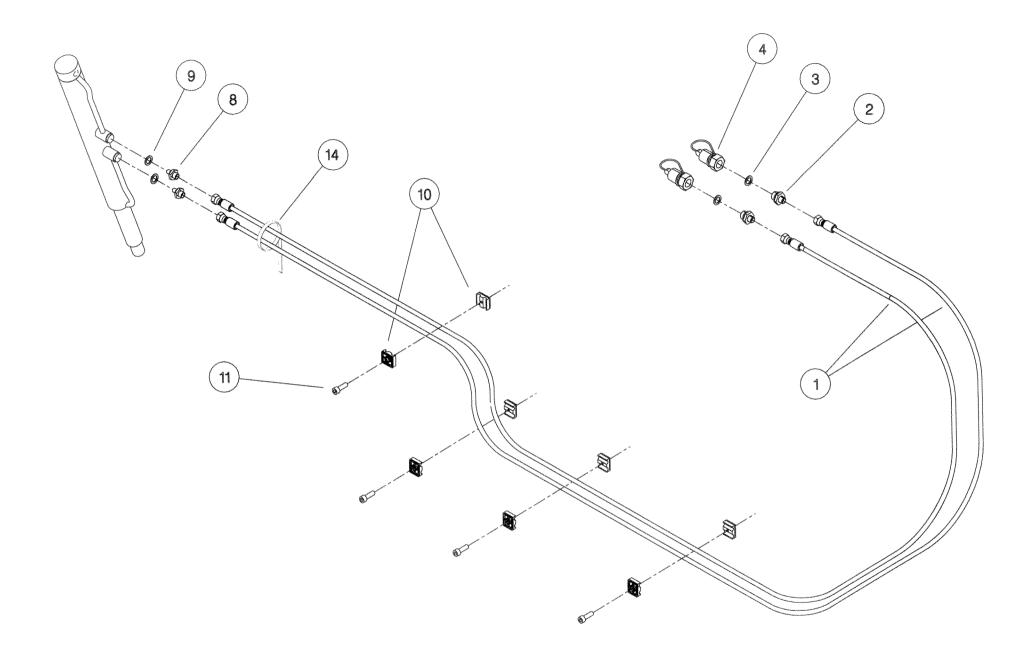
ASSY	NUMBER:	609031 01	ASSY	DESCR	IPTION: FIXTU	RES & GUARDS SUB ASSY (DAIRY)
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1 2 3 4 5	590461 01 607029 01 HSS-0096 WSH-0009 NUT-0260 HOS-1000	HOSE SUPPORT/PTO GUARD PIPE CLAMP SETSCREW WASHER NUT PLASTIC SLEEVE	1 2 2 14 10 0.03	u	590145 01 TNF-0201 612269 01 604968 01 590188 01	EMBLEM-OPERATION PROC.	1 1 1 1
7 8 9 10	WSH-0012 NUT-0263 WSH-0018	WASHER NUT WASHER	4 4 6	37 38 39 40	590463 01 590466 01 PIN-01950	DETACHABLE SKID LOCKING HANDLE LYNCH PIN	1 1 1
11 12 13 14 15 16	NUT-0269 601853 01 590600 01 HSS-0145 605026 01 590477 01	NUT LOWER CHAIN GUARD UPPER CHAIN GUARD BOLT IMPELLER PTO GUARD	6 1 1 4	41 42 43 44 45	HSS-0250 NUT-0370 190119 04 HSS-0238	SETSCREW HALFNUT SPACER DISC SETSCREW	3 1 3 2
17 18 19	TNF-0011 590479 01 590475 01	EMBLEM-WARNING(RISK OF FLYING OBJECTS) TRANSFER BLOCK EMBLEM-DO NOT ENTER EMBLEM-MAX'PTO SPEED	1 1 3 1	46 47 48 49 50	WDA-00025 CHN-0145 CLP-00103	MANUAL CANISTER CHAIN R CLIP	1 .17 1
20 21 22 23 24	127075 12 127075 16 191981 01 591626 01	EMBLEM-10 HOURS GREASE EMBLEM-50 HOURS GREASE EMBLEM-SHELBOURNE 3 CLR EMBLEM-SHEAR BOLTS-AUGER SER No: PSD16110125 & ON	2 6 3	52 53 54 55 56	TPE-00251 LTC-0010 590776 02 591429 01	REFLECTIVE TAPE HEX HD RELEASE LOCK FASTENER SPACER GUARD FIXING LOCK	.05M 2 2 1
OR 25 26 27 28 29	590961 01 590474 01 590603 01 590594 01 590594 02 HSS-0088	EMBLEM-SHEAR BOLTS-AUGER UP TO & INC PSD16110124 EMBLEM-SHEAR BOLTS-IMPELLER POWERSPREAD DAIRY EMBLEM PTO REST LH PTO REST RH SETSCREW	1 1 2 1 1	56 57 58 59 60 61	590776 03 590776 04 591427 01 HSS-0084 LTC-0012	FASTENER SPACER FASTENER SPACER GUARD FIXING ASSY SET SCREW RETAINING WASHER	2 1 1 2 2
30 31 32	590476 01	EMBLEM-NO STEP	1				



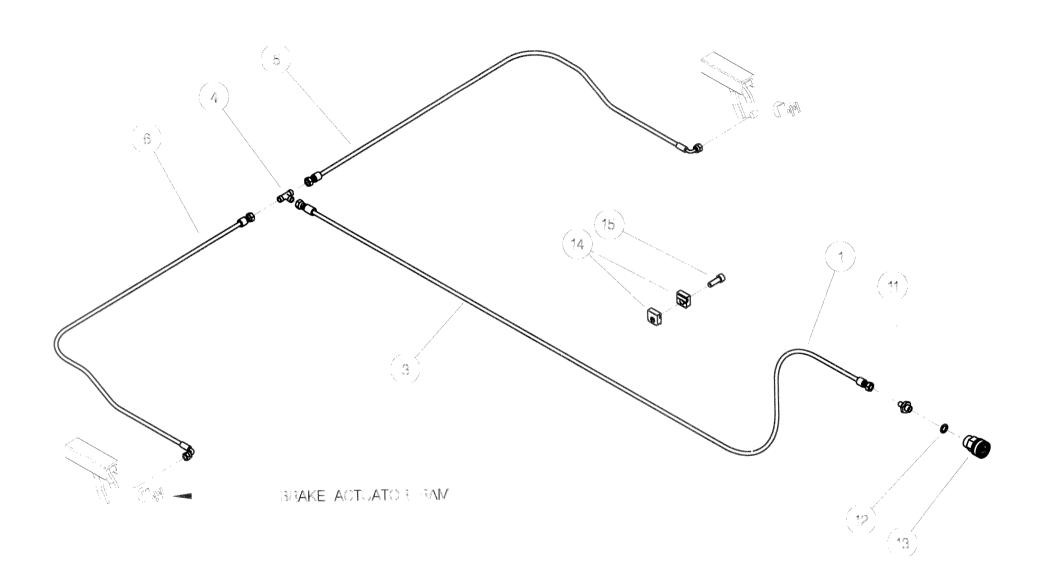
ASSY	NUMBER:	609044 01	ASSY	DESCRI	PTION:AXLE S	UB ASSY (DAIRY)	
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1	590888 08	AXLE W/A (ADR)	1				
OR	590888 01	(SERIAL No 129104 ONWARDS) AXLE W/A(ADR) (UP TO SERIAL No 128104)	1				THE PROPERTY OF THE PROPERTY O
1a	NUTF20200	WHEEL NUT	16				
1b	AXL-15000	WASHER	16				
2a	WHL-02801	L.H.WHEEL & TYRE 630 ONLY 16.5/85-28(10PLY,M18x8,275	1 ocd)		WHEEL & TY	RE SUB ASSY -(609000 01SB1)	A delateramento del distributorio del
2b	WHL-02601	L.H.WHEEL & TYRE 18.4-26 12PLY RAD.M18x8 ON 275pcd)	1		WHEEL & TY	RE SUB ASSY -(609000 01SB2)	kifore a chila kakakakakakakakakakakakakakakakakakak
2c	WHL-02402	L.H WHEEL & TYRE 21.3-24 12PLY RAD.M18x8 ON 275pcd)	The second		WHEEL & TY	RE SUB ASSY -(609000 01SB3)	ensistemental interview of the contraction of the c
2d	WHL-02612	L.H WHEEL TYRE 600.55-26.5 12PLY RAD.M18x8 ON 275pcd)	1		WHEEL & TY	RE SUB ASSY -(609000 01SB4)	e-constitution of the constitution of the cons
2e	WHL-02616	L.H WHEEL & TYRE 23.1-26 12PLY RAD.M18x8 DNEPROSHINA	1		WHEEL & TY	RE SUB ASSY - (609000 01SB5)	
2f	WHL-02616a	L.H WHEEL & TYRE 23.1-26 14PLY RAD.M18x8 STARMAXX	1	nds property color and continued as a second of the color and colo	WHEEL & TY	RE SUB ASSY - (609000 01SB6)	
3a	WHL-02800	R.H.WHEEL & TYRE 630 ONLY 16.5/85-28(10PLY,M18x8,275	1		WHEEL & TY	RE SUB ASSY -(609000 01SB1)	
3b	WHL-02600	R.H.WHEEL & TYRE 18.4-26 12PLY RAD.M18x8 ON 275pcd)	1		WHEEL & TY	RE SUB ASSY - (609000 01SB2)	
3c	WHL-02403	R.H.WHEEL & TYRE 21.3-24 12PLY RAD.M18x8 ON 275pcd)	1		WHEEL & TY	RE SUB ASSY - (609000 01SB3)	
3d	WHL-02613	R.H WHEEL & TYRE 600.55-26. 12PLY RAD.M18x8 ON 275pcd)	51	ALADOVARIA GARAGO ANTONIO ANTO	WHEEL & TY	RE SUB ASSY - (609000 01SB4)	
3e	WHL-02617	R.H WHEEL & TYRE 23.1-26 12PLY RAD.M18x8 DNEPROSHINA	1	NO. TO COMPANY OF THE PROPERTY	WHEEL & TY	RE SUB ASSY - (609000 01SB5)	
3f	WHL-02617a	R.H WHEEL & TYRE 23.1-26 14PLY RAD.M18x8 STARMAXX	1		WHEEL & TY	RE SUB ASSY -(609000 01SB6)	
4	HSS-0318	BOLT	8				
6	WSH-0024	WASHER	16				
AND THE PARTY OF T				TOTAL			
4 5	HSS-0318 NUT-0271	14PLY RAD.M18x8 STARMAXX BOLT NUT	8 8		AAIITITI Q II	MT 200 A221 - (003	000 01360)



ASSY N	NUMBER:	609047 01	ASSY	DESCR	PTION: DOOR	RAM HYDRAULICS	
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1	HHAC51005	HOSE ASSY	2				Topical desiration of the second of the seco
2 3 4 5 6	HMA-0055 WSH-1015 COU-0162	ADAPTOR WASHER Q-R COUPLING	2 2 2			PLEASE NOTE FOR MACHINES (SERIAL 127102- ONWARDS)	
7 8 9 10 11 12	FIT-0025 WSH-1010 HCPD01200 SCW-0083	M/M ADAPTOR WASHER HYD.PIPE CLAMP SCREW	2 2 4 4				
13 14	TIE-0006	CABLE TIE	A/R				
And Company of the Co							
Reading State Control							



ASSY	NUMBER:	609048 01	ASSY	DESCR:	IPTION: BRA	AKE RAMS HYDRAULIC
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION QTY
1	ннас61005	HOSE ASSY	1			
2 3 4 5	НМТ-0010 ННВС06305 ННВС09105	TEE FITTING HOSE ASSY HOSE ASSY	1 1 1			PLEASE NOTE FOR MACHINES (SERIAL 127102- ONWARDS)
7 8 9 10 11 12 13 14 15 16	HMA-0055 WSH-1015 HQR-10007 HCPD01200 SCW-0083	ADAPTOR DOWTY WASHER HYD.Q.R.COUPLING HYD.PIPE CLAMP SCREW	1 1 1 5 5			



ASSY	NUMBER:	KIT-03230	ASSY DESCRIPTION: SLURRY CANOPY KIT				
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1 2 3 4 5A OR 5B OR 5C	590619 01 HSS-0238 WSH-0018 NUT-0269 591007 01 591007 02 591007 05	SLURRY CANOPY W/A SET SCREW WASHER NUT TRANSFER (1400) 1400 MODEL ONLY TRANSFER (1600) 1600 MODEL ONLY TRANSFER (2200) 2200 MODEL ONLY	2 16 16 2 2 2 2				

