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ROTARY HEAD

Tiger 1.2m Rotary Cutting Unit



Operator & Parts Manual



IMPORTANT

VERIFICATION OF WARRANTY REGISTRATION



DEALER WARRANTY INFORMATION & REGISTRATION VERIFICATION

It is imperative that the selling dealer registers this machine with McConnel Limited within 7 days of delivery to the end user – failure to do so may affect the validity of the machine warranty.

To register machines go to the McConnel Limited web site at www.mcconnel.com, log onto 'Dealer Inside' and select the 'Machine Registration button' which can be found in the Service Section of the site. Confirm to the customer that the machine has been registered in the section below.

Should you experience any problems registering a machine in this manner please contact the McConnel Service Department on 01584 875848.

Registration Verification

Dealer Name:
Dealer Address:
Customer Name:
Date of Warranty Registration:/...../..... Dealer Signature:

NOTE TO CUSTOMER / OWNER

Please ensure that the above section above has been completed and signed by the selling dealer to verify that your machine has been registered with McConnel Limited.

IMPORTANT: During the initial 'bedding in' period of a new machine it is the customer's responsibility to regularly inspect all nuts, bolts and hose connections for tightness and re-tighten if required. New hydraulic connections occasionally weep small amounts of oil as the seals and joints settle in – where this occurs it can be cured by re-tightening the connection – *refer to torque settings chart below*. The tasks stated above should be performed on an hourly basis during the first day of work and at least daily thereafter as part of the machines general maintenance procedure.

TORQUE SETTINGS FOR HYDRAULIC FITTINGS

HYDRAULIC HOSE ENDS		
BSP	Setting	Metric
1/4"	18 Nm	19 mm
3/8"	31 Nm	22 mm
1/2"	49 Nm	27 mm
5/8"	60 Nm	30 mm
3/4"	80 Nm	32 mm
1"	125 Nm	41 mm
1.1/4"	190 Nm	50 mm
1.1/2"	250 Nm	55 mm
2"	420 Nm	70 mm

PORT ADAPTORS WITH BONDED SEALS		
BSP	Setting	Metric
1/4"	34 Nm	19 mm
3/8"	47 Nm	22 mm
1/2"	102 Nm	27 mm
5/8"	122 Nm	30 mm
3/4"	149 Nm	32 mm
1"	203 Nm	41 mm
1.1/4"	305 Nm	50 mm
1.1/2"	305 Nm	55 mm
2"	400 Nm	70 mm

EC DECLARATION OF CONFORMITY

*Conforming to EEC Machinery Directive 98/37/EC**

We,

McCONNEL LIMITED,

Temeside Works, Ludlow, Shropshire SY8 1JL.

Declare under our sole responsibility that:

The product (type) Hydraulic Arm Mounted Rotary Cutting Head

Product Code

Serial No. & Date Type

Manufactured by the above company/*

(insert business name and full address if not stated above)*

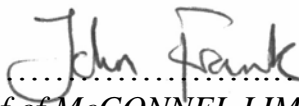
Complies with the required provisions of the Machinery Directive 98/37/EC, * previously Directive 89/392/EEC as amended by Directives 91/368/EEC, 93/44/EEC and 93/68/EEC.

The machinery directive is supported by;

- BS EN ISO 12100:2003 Safety of Machinery. This standard is made up of two parts; Part 1 Terminology, methodology, Part 2 Technical Specifications.
- BS EN 1050 Safety of machinery - Principles of risk assessment.
- and other national standards associated with its design and construction as listed in the Technical File.

The Machinery Directive is fully implemented into UK law by means of the Supply of Machinery (Safety) Regulations 1992 (SI 1992/3073) as amended by The Supply of Machinery (Safety) (Amendment) Regulations 1994 (SI 1994/2063).

Signed



.....
on behalf of McCONNEL LIMITED

Person

.....
Responsible

Status: Chief Design Engineer

Date: December 2008

CONTENTS

	<i>Page No.</i>
OPERATOR SECTION	
General Information	3
Safety Information	4
Operation	8
Maintenance	11
PARTS SECTION	
Main Assembly	15
Spindle Assembly	17
Knives & Disc Assembly	19

GENERAL INFORMATION

Read this manual before fitting or operating this equipment. Whenever any doubt exists contact your dealer or the McConnel Service Department for assistance.

Always use 'Genuine McConnel Parts' on McConnel machinery and accessories.

DEFINITIONS:

The following definitions apply throughout this manual:

WARNING:

An operating procedure, technique etc., which can result in personal injury or loss of life if not observed carefully.

CAUTION:

An operating procedure, technique etc., which can result in the damage of either machine or equipment if not observed carefully.

NOTE:

An operating procedure, technique etc. which is considered essential to emphasise.

LEFT & RIGHT HAND:

This term is applicable to the machine when it is fitted to the tractor and viewed from the rear. This also applies to tractor references.

Record the serial number of your machine on this page and always quote this number when ordering spares. Whenever information concerning the machine is requested remember to also state the type of tractor to which it is fitted.

MACHINE SERIAL NUMBER:

INSTALLATION DATE:

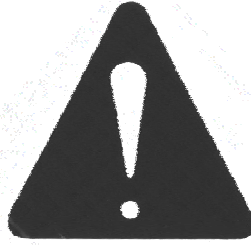
MODEL DETAILS:

DEALER NAME & ADDRESS:

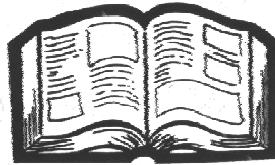
DEALER TELEPHONE NUMBER:

NOISE STATEMENT

The equivalent daily personal noise exposure from this machine, measured at the operators' ear, is within the range 78 – 85 DB. These figures apply to a normal distribution of use where the noise fluctuates between zero and maximum. The figures assume that the machine is fitted to a tractor with a quiet cab with the windows closed in a generally open environment. We recommend that the windows are kept closed. With the cab rear window open the equivalent daily personal noise exposure will increase to a figure within the range 82 – 88 DB. At equivalent daily noise exposure levels of between 85 and 90 DB, ear protection is recommended, it should be used if any window is left open.



SAFETY INFORMATION



This component / accessory is primarily designed for fitment to McConnel Power Arm Hedge and Grass Cutters, therefore all safety aspects for this component relate to the safe use of those machines and will be stated in the safety section of its operation manual. A copy of the same safety information is provided below in order to reiterate and refresh your memory.

This machine has the potential to be extremely dangerous, in the wrong hands it can kill or maim. It is therefore imperative that the owner, and the operator of this machine, read the following section to ensure that they are both fully aware of the dangers that do, or may exist, and their responsibilities surrounding its use.

The operator of this machine is responsible not only for their own safety but equally for the safety of others who may come into the close proximity of the machine, as the owner you are responsible for both.

POTENTIAL SIGNIFICANT DANGERS ASSOCIATED WITH THE USE OF A MACHINE:

- ▲ *Being hit by debris thrown by rotating components.*
- ▲ *Being hit by machine parts ejected through damage during use.*
- ▲ *Being caught on a rotating power take-off (PTO) shaft.*
- ▲ *Being caught in other moving parts i.e.: belts, pulleys and cutting heads.*
- ▲ *Electrocution from Overhead Power Lines (by contact with or 'flashover' from).*
- ▲ *Being hit by cutting heads or machine arms as they move.*
- ▲ *Becoming trapped between tractor and machine when hitching or unhitching.*
- ▲ *Tractor overbalancing when machine arm is extended.*
- ▲ *Injection of high-pressure oil from hydraulic hoses or couplings.*
- ▲ *Machine overbalancing when freestanding (out of use).*
- ▲ *Road traffic accidents due to collision or debris on the road.*

BEFORE USING A MACHINE YOU MUST:

- ▲ *Ensure you read all sections of the operator handbook.*
- ▲ *Ensure the operator is, or has been, properly trained to use the machine.*
- ▲ *Ensure the operator has been issued with and reads the operator handbook.*
- ▲ *Ensure the operator understands and follows the instructions in operator handbook.*
- ▲ *Ensure the tractor front, rear and sides are fitted with metal mesh or polycarbonate guards of suitable size and strength to protect the operator against thrown debris or parts.*
- ▲ *Ensure tractor guards are fitted correctly, are undamaged and kept properly maintained.*
- ▲ *Ensure that all machine guards are in position, are undamaged, and are kept maintained in accordance with the manufacturer's recommendations.*
- ▲ *Ensure flails and their fixings are of a type recommended by the manufacturer, are securely attached and that none are missing or damaged.*
- ▲ *Ensure hydraulic pipes are carefully and correctly routed to avoid damage by chaffing, stretching or pinching and that they are held in place with the correct fittings.*
- ▲ *Always follow the manufacturer's instructions for attachment and removal of the machine from the tractor.*
- ▲ *Check that the machine fittings and couplings are in good condition.*
- ▲ *Ensure the tractor meets the minimum weight recommendations of the machine's manufacturer and that ballast is used as necessary.*
- ▲ *Always inspect the work area thoroughly before starting to note obstacles and remove wire, bottles, cans and other debris.*
- ▲ *Use clear suitably sized warning signs to alert others to the nature of the machine working within that area. Signs should be placed at both ends of the work site. (It is recommended that signs used are of a size and type specified by the Department of Transport and positioned in accordance with their, and the Local Highways Authority, guidelines).*
- ▲ *Ensure the operator is protected from noise. Ear defenders should be worn and tractor cab doors and windows must be kept closed. Machine controls should be routed through proprietary openings in the cab to enable all windows to be shut fully.*
- ▲ *Always work at a safe speed taking account of the conditions i.e.: terrain, highway proximity and obstacles around and above the machine. Extra special attention should be applied to Overhead Power Lines. Some of our machines are capable of reach in excess of 8 metres (26 feet) this means they have the potential to well exceed, by possibly 3 metres (9' 9"), the lowest legal minimum height of 5.2 metres from the ground for 11,000 and 33,000 volt power lines. It cannot be stressed enough the dangers that surround this capability, it is therefore vital that the operator is fully aware of the maximum height and reach of the machine, and that they are fully conversant with all aspects regarding the safe minimum distances that apply when working with machines in close proximity to Power Lines. (Further information on this subject can be obtained from the Health & Safety Executive or your Local Power Company).*

- ▲ *Always disengage the machine, kill the tractor engine, remove and pocket the key before dismounting for any reason.*
- ▲ *Always clear up all debris left at the work area, it may cause hazard to others.*
- ▲ *Always ensure when you remove your machine from the tractor that it is left in a safe and stable position using the stands and props provided and secured if necessary.*

WHEN NOT TO USE THIS MACHINE:

- ▲ *Never attempt to use this machine if you have not been trained to do so.*
- ▲ *Never use a machine until you have read and understood the operator handbook, are familiar with it, and practiced the controls.*
- ▲ *Never use a machine that is poorly maintained.*
- ▲ *Never use a machine if guards are missing or damaged.*
- ▲ *Never use a machine on which the hydraulic system shows signs of wear or damage.*
- ▲ *Never fit, or use, a machine on a tractor that does not meet the manufacturer's minimum specification level.*
- ▲ *Never use a machine fitted to a tractor that does not have suitable front, rear and side(s) cab guarding made of metal mesh or polycarbonate.*
- ▲ *Never use the machine if the tractor cab guarding is damaged, deteriorating or badly fitted.*
- ▲ *Never turn a machine cutting head to an angle that causes debris to be ejected towards the cab.*
- ▲ *Never start or continue to work a machine if people are nearby or approaching - Stop and wait until they are at a safe distance before continuing. WARNING: Some Cutting Heads may continue to 'freewheel' for up to 40 seconds after being stopped.*
- ▲ *Never attempt to use a machine on materials in excess of its capability.*
- ▲ *Never use a machine to perform a task it has not been designed to do.*
- ▲ *Never operate the tractor or machine controls from any position other than from the driving seat, especially whilst hitching or unhitching the machine.*
- ▲ *Never carry out maintenance of a machine or a tractor whilst the engine is running – the engine should be switched off, the key removed and pocketed.*
- ▲ *Never leave a machine unattended in a raised position – it should be lowered to the ground in a safe position on a level firm site.*
- ▲ *Never leave a tractor with the key in or the engine running.*
- ▲ *Never carry out maintenance on any part or component of a machine that is raised unless that part or component has been properly substantially braced or supported.*
- ▲ *Never attempt to detect a hydraulic leak with your hand – use a piece of cardboard.*
- ▲ *Never allow children near to, or play on, a tractor or machine under any circumstances.*

ADDITIONAL SAFETY ADVICE

Training

Operators need to be competent and fully capable of operating this machine in a safe and efficient way prior to attempting to use it in any public place. We advise therefore that the prospective operator make use of relevant training courses available such as those run by the Agricultural Training Board, Agricultural Colleges, Dealers and McConnel.

Working in Public Places

When working in public places such as roadsides, consideration should be paid to others in the vicinity. Stop the machine immediately when pedestrians, cyclists and horse riders etc. pass. Restart only when they are at a distance that causes no risk to their safety.

Warning Signs

It is advisable that any working area be covered by suitable warning signs and statutory in public places. Signs should be highly visible and well placed in order to give clear advanced warning of the hazard. Contact the Department of Transport or your Local Highways Authority to obtain detailed information on this subject. The latter should be contacted prior to working on the public highway advising them of the time and location of the intended work asking what is required by way of signs and procedure. – ‘*Non-authorised placement of road signs may create offences under the Highways Act*’.

Suggested Warning Signs Required

“Road works ahead” warning sign with a supplementary **“Hedge cutting”** plate. **“For 1 mile”** or appropriate shorter distance may be added to the plate.

“Road narrows” warning sign with supplementary **“Single file traffic”** plate.

White on blue **“Keep right”** (*) arrow sign on rear of machine.

* Note – this applies to UK Market machines where traffic passes to the right of a machine working in the same direction as the traffic flow. The direction, use and colour of the arrow sign will depend on the country of use and the Local Highway Authorities regulations in the locality.

Use of Warning Signs

- ▲ On two-way roads one set of signs is needed facing traffic in each direction.
- ▲ Work should be within 1 mile of the signs.
- ▲ Work only when visibility is good and at times of low risk e.g.: NOT during ‘rush-hour’.
- ▲ Vehicles should have an amber-flashing beacon.
- ▲ Ideally, vehicles should be conspicuously coloured.
- ▲ Debris should be removed from the road and path as soon as practicable, and at regular intervals, wearing high visibility clothing and before removing the hazard warning signs.
- ▲ Collect all road signs promptly when the job is completed.

Although the information given here covers a wide range of safety subjects, it is impossible to predict every eventuality that can occur under differing circumstances whilst operating this machine. No advice given here can replace ‘good common sense’ and ‘total awareness’ at all times, but will go a long way towards the safe use of your McConnel machine.

OPERATION

MOWER OPERATION



WARNING! When rotating parts are in motion, serious injury may occur if caution is not used or danger is not recognized. Never allow bystanders within 300 feet of the machine when in operation. Extreme care should be taken when operating near loose objects - such as gravel, rocks and debris. These conditions should be avoided.

The rotating parts in this machine have been designed and tested for rugged use. However, they could fail upon impact with heavy solid objects - such as steel guard rails, concrete abutments, etc., causing them to be thrown at a very high velocity. Never allow cutter head to contact such objects. Inspecting the cutting area for such objects and removing them prior to mowing can help eliminate these potential hazards.

Once on location, lower the mower deck slightly above the material to be cut, so the mower does not have to start under a load. With the tractor at an idle, engage mower. Bring tractor R.P.M. up to 1900 - 2200 R.P.M. and slowly lower deck to ground level.

A flail mower deck should be carried so that part of the deck weight is carried by the boom and part carried by the ground roller, when mowing on the ground. When the flail mower is carried this way, the ground roller follows the contour of the ground more easily during mowing operations.

The rotary mower deck should always be carried rather than dragged on the skid shoes when mowing on the ground. Dragging the rotary mower deck increases the side loads on the boom, decreases the horsepower available to the cutter head, and reduces the ability of the accumulator to carry part of the weight of the boom during mowing operations.

1.5M ROTARY CUTTING HEAD

The 1.5m boom rotary mower was designed for cutting brush and foliage up to 6 inches in diameter or multiple branches that have a total cross section area equivalent to one 6 inch branch.

During mower operation, the hand throttle must be used to maintain engine speed at 1900-2200 R.P.M. This prevents radical changes in mower spindle speeds, reducing the possibility of cutter assembly damage.

The horizontal positioning action of the boom is designed to position the cutting head and provide a limited pressure relief when excessive pressure is applied to the boom. Do not force the cutting head into heavy branches or stumps. Damage to the unit may result.



CAUTION! When using the rotary cutting head for trimming trees and shrubs, let the mower saw into them. Do not lower the mower head down directly onto a tree or stump. The mower blades are designed to cut with the end, and misuse can cause damage to the blade and a hazardous situation for the operator.



CAUTION! Powering the boom down, forcing mower deck onto ground may damage mower deck and it's attachment to the boom, creating a potentially hazardous situation.

To ensure a clean cut, engine speed should be maintained at approximately 1900 - 2200 R.P.M. If the tractor slows to less than 1800 R.P.M., shift to the next lower gear. **DO NOT** ride the clutch; this will cause premature clutch failure. **The engine should not be operated at any time at more than 2400 R.P.M. on the tractor tachometer.**

For cutting brush it is usually best to stop the tractor and swivel the boom and mower into foliage. The horizontal positioning action of the boom is designed to position the cutting head and provide a limited pressure relief when excessive pressure is applied to the boom.



CAUTION! DO NOT use excessive force when positioning cutting head into heavy branches or stumps. Damage to the unit may result. It is best to let the cutter head 'eat away' slowly at heavy cutting jobs.



CAUTION! If foliage falls on top of mower deck causing tractor to become unstable, move the boom 'Forward' and 'Out' to relieve tipping of the tractor. Lower mower deck to ground and shut down unit. After all motion stops, remove foliage from mower deck.

The mower will operate more efficiently in tougher conditions and with less power if the knives are kept sharp. If the mower begins to vibrate, stop the tractor, check for wire wrapped in the spindle or damaged knives. When replacing knives, replace all knives with new knives to ensure proper balance so the mower will not vibrate. Severe vibration will result, if knives with unequal wear are used.

Begin a pass at the top side of the trees and work down with each consecutive pass. When cutting trees and shrubs, use a lower speed to allow the knives time to cut as well as mulch the foliage.



WARNING! If bystanders approach within 300 feet while mower is in operation turn mower switch 'OFF' immediately! After shutdown, never leave the tractor or allow bystanders to approach within 300 FEET of the unit until all motion stops completely.

If cutter shaft jams and stops, turn mower switch to 'OFF', and swivel boom 'AFT'. Normally this action will clear the cutter head. If not, roll mower deck until adjacent to the secondary boom, and then lower boom to rest mower deck on ground. Shut off the tractor, set parking break, allow all motion to cease. At that point it is safe to leave the tractor and clear the cutter heads manually.

Begin each pass at the top side of the trees and work down with each consecutive pass. Use a low speed to allow the cutting blades time to mulch as well as cut the foliage. When the initial pass has been made, disengage the mower, and return boom to a safe travel position. Return to starting point and make next pass, etc..



WARNING! Operating the mower in a manner that allows the knives to contact the drum will cause permanent damage to the cutter shaft drum, knives, and knife attachment parts.



WARNING! The 63" boom flail cutter shaft is designed for standard rotation (same rotation as the tractor wheels during forward travel). Never operate the cutter shaft in reverse rotation. Operating this mower in reverse rotation may cause objects to be thrown out the front of the mower head.

TRANSPORTING MOWER

Transporting under the units own power:

When transporting between job sites or between cutting passes, the following procedure should be followed: Shut off the power to the cutting head and allow all motion to come to a complete stop. Raise the boom to its highest position, being cautious of overhead obstructions such as highline wires. Rotate the deck until stop bolt touches secondary boom. Swing boom to a 90° angle from tractor. Retract secondary boom until inner skid shoe of the deck just touches the main boom. Check to be sure deck has ample clearance from front and rear tires. The unit is now in position for self transportation.

Transporting unit by flatbed trailer:

Park the flatbed trailer on a firm level site. Drive tractor onto centre of flatbed to avoid uneven distribution of weight and staying within local width restrictions. If boom is over local height restrictions, you will need to extend booms outward enough to clear front of tractor when boom is pivoted forward. Pivot mower deck to its extreme outward position and deck cylinder is fully retracted. Lower boom until deck is slightly above trailer bed. Remove cylinder pin from outer end of the boom swivel cylinder.



CAUTION! If trailer is not perfectly level, the boom will tend to swing towards the lower side. Have other personnel ready to control its swinging motion when cylinder pin is removed.

Retract swivel cylinder and place clear of boom. Pivot boom forward to the centre of flat bed. Lower deck onto the trailer bed, and shut off the tractor. The tractor and the mower head should now be chained down securely to the trailer bed.

MAINTENANCE

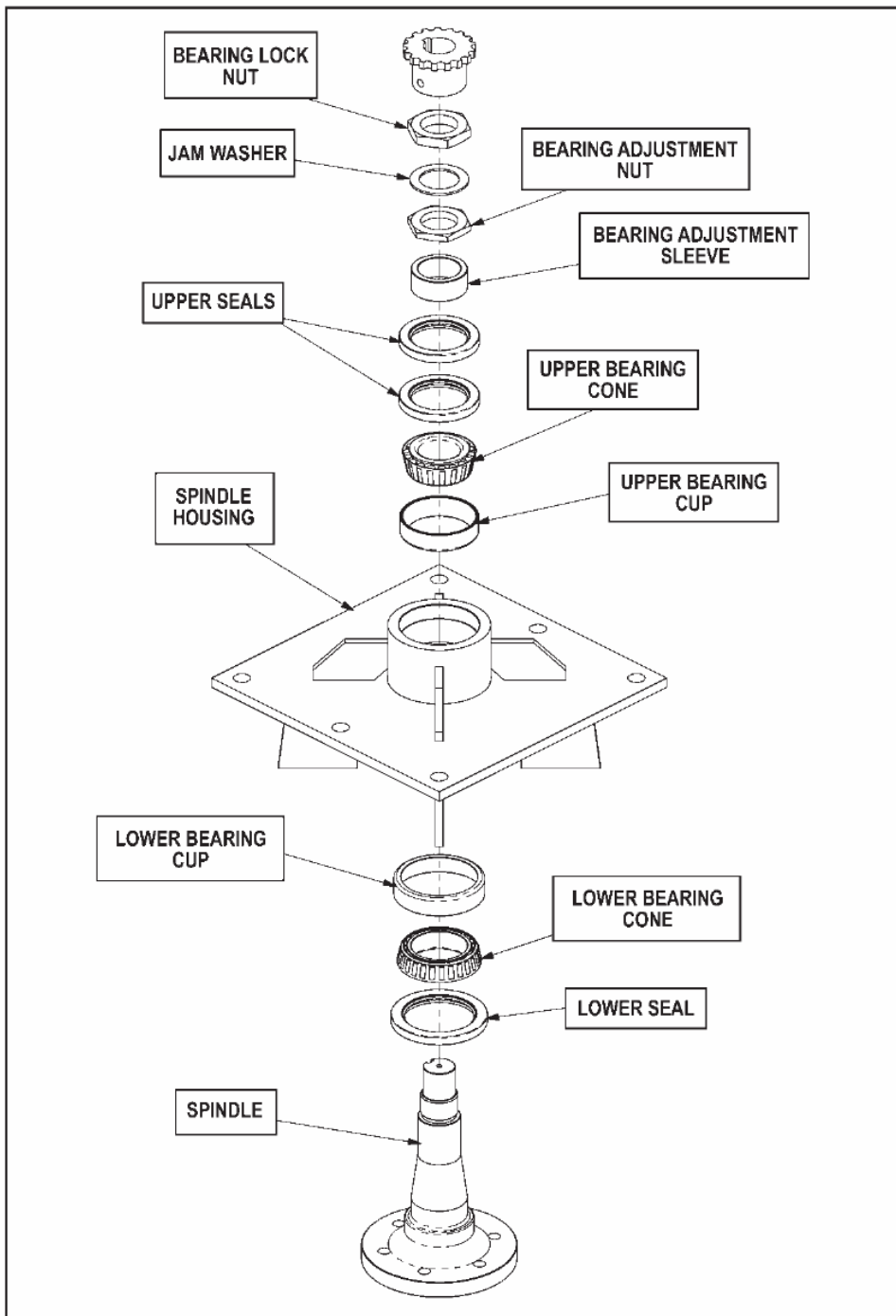
HEAVY DUTY SPINDLE ASSEMBLY – Installation and Bearing Adjustment

WARNING! A press MUST be used to install bearing cups, bearing cones, and seals. DO NOT use a hammer to install races, bearings, or seals. The parts of the assembly may be damaged.

NOTE: The grease fitting and gussets are located on the top side of the spindle housing. Ensure the spindle is assembled correctly. **Always wear eye protection and other protective equipment as needed when working on spindle assembly.**

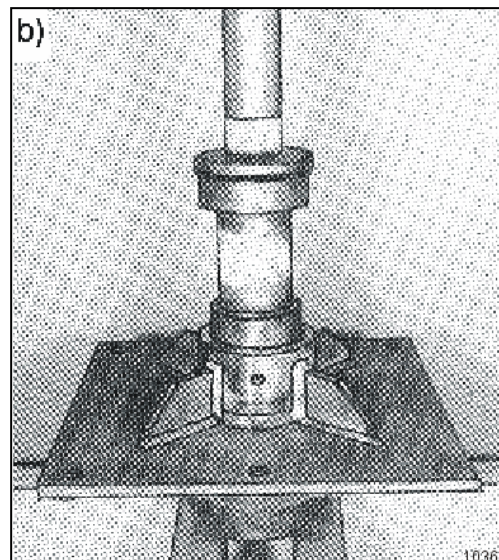
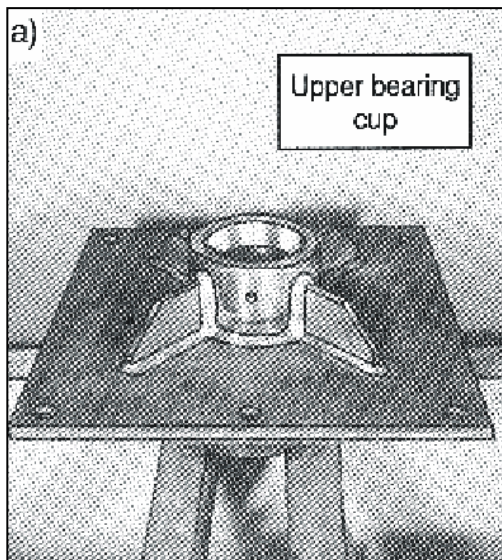
SPINDLE ASSEMBLY

See diagram below for identification of spindle parts.



BEARING INSTALLATION

1. Press upper bearing cup into the spindle housing.
2. Turn the spindle housing over and press in the lower bearing cup.
3. Place the lower bearing cone in the bearing cup. Next press the seal into the spindle housing. The inner lip of the seal must be DOWN, towards the bearing, so lubricant is sealed inside the housing.
4. Install the spindle in the housing. Lightly tap the end of the spindle with a soft faced hammer to seat the spindle against the bearing inner race.
5. Turn the spindle housing over (up position) and fill with Spindle Lubricant to the top edge of the upper bearing cup.
6. Support the bottom of the spindle and press the upper bearing cone and bearing adjustment sleeve onto the spindle. NOTE: The spindle housing must turn freely when seating the bearing cone and sleeve.
7. Press the two upper seals into the spindle housing. The inner lip of the seals must be UP, away from the bearing, so excess lubricant can escape.
8. Install the bearing adjustment nut (thin nut) so there is 1/16" clearance between the nut and the sleeve. Install the jam washer, placing the tab into the key-way. Install the bearing lock nut (thin nut) and hand tighten against jam washer and adjustment nut. See the following section for bearing adjustment.

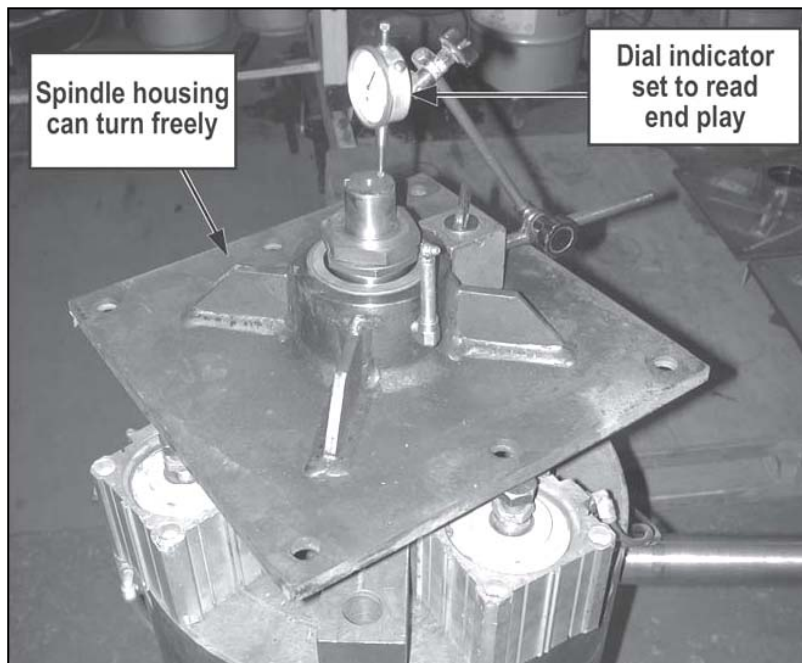


BEARING ADJUSTMENT

1. Clamp the bottom end of the spindle securely in a vice so the spindle housing turns freely.
2. Position a magnetic based dial indicator on the outer diameter of the spindle housing. Locate the end of the dial indicator against the flat end of the spindle shaft. The dial indicator will now measure accurately bearing end play.
3. Tighten the bearing adjustment nut until there is .012 inch movement when the spindle housing is pried upward away from the vice jaws.
4. When there is .012 inch free play between the spindle and housing, install the bearing lock nut (thick nut). Hold the adjusting nut securely and tighten the lock nut to 300 ft. lbs. of torque.
5. After the lock nut is tightened, there must be .001 inch to .003 inch of free play when lightly prying up on the spindle housing.

If the 'end play' is correct, (.001 inch to .003 inch), bend tabs up on jam washer to prevent the lock nut from loosening.

If the 'end play' is NOT correct, loosen the lock nut and turn the adjustment nut as required and re-tighten the lock nut. Repeat first part of step 5.





For best performance ...

USE ONLY GENUINE McCONEL SERVICE PARTS

*To be assured of the latest design improvements purchase your
'Genuine Replacements' from the 'Original Equipment Manufacturer'*

McCONEL LIMITED

Through your local Dealer or Stockist

Always quote:

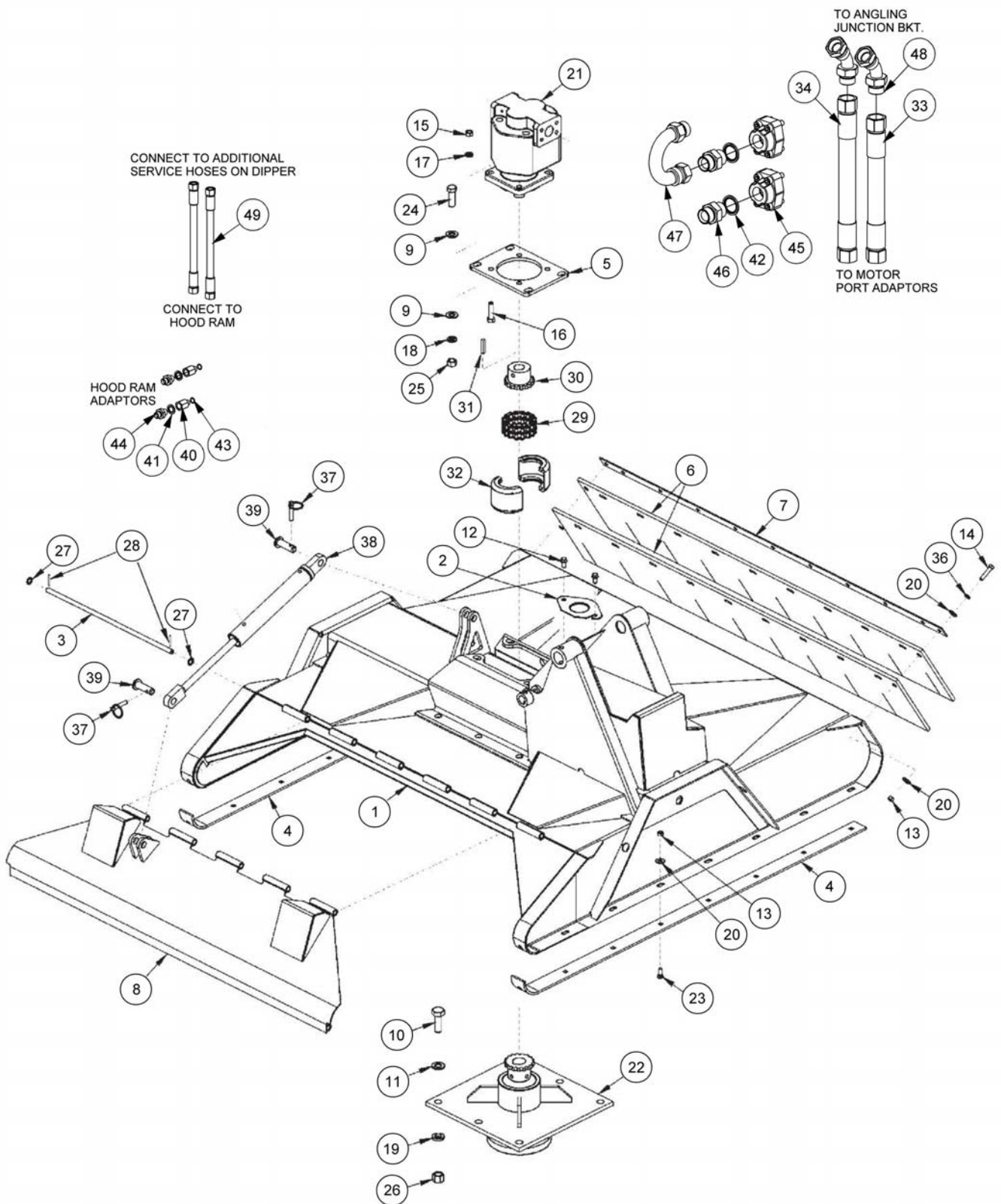
- ***Machine Type***
- ***Serial Number***
- ***Part Number***

*Design improvements may alter some of the parts listed in this manual –
the latest part will always be supplied when it is interchangeable with an earlier one.*

MAIN ASSEMBLY

McCONEL

Module(s):

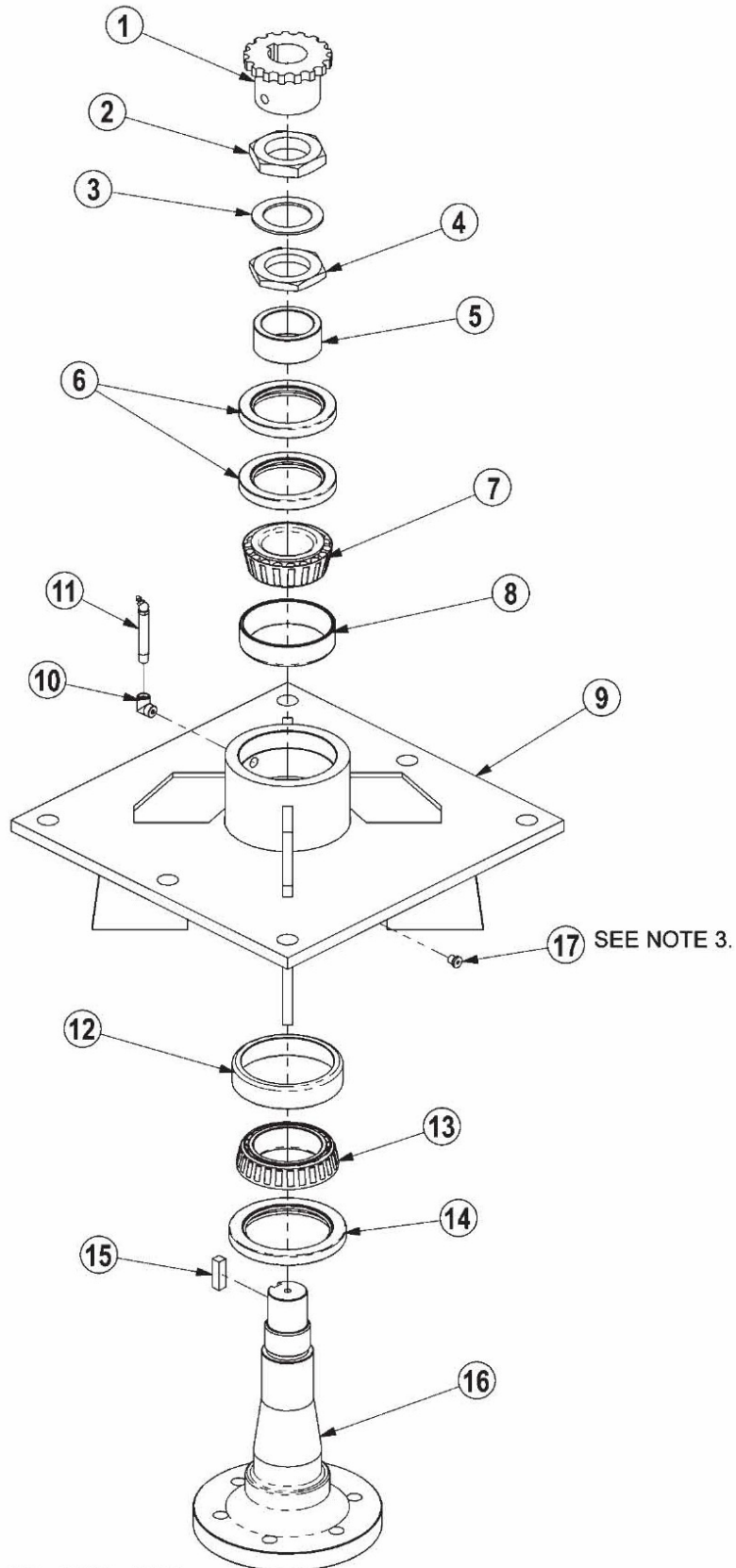


REF.	QTY.	PART No.	DESCRIPTION
1	1	33780	DECK
2	1	33779	HOLE COVER PLATE
3	1	33778	HINGE PIN
4	2	33777	SKID SHOE
5	1	33776	MOTOR MOUNT PLATE
6	2	33775	FLAP
7	1	33774	FLAP RETAINER
8	1	33754	SHIELD
9	8	33764	FLAT WASHER
10	6	33879	CAPSCREW
11	6	33880	FLAT WASHER
12	2	33881	CAPSCREW
13	18	21625	HEX NUT
14	11	21633	CAPSCREW
15	4	21725	HEX NUT
16	4	21733	CAPSCREW
17	4	21990	LOCK WASHER
18	4	21992	LOCK WASHER
19	6	21993	LOCK WASHER
20	33	22016	FLAT WASHER
21	1	8301314	MOTOR
22	1	6T1024H5	SPINDLE ASSEMBLY
23	16	6T2270	PLOUGH BOLT
24	4	6T2290	CAPSCREW
25	4	6T2408	HEX NUT
26	6	6T2413	HEX NUT
27	2	33924	EXTERNAL RETAINING RING
28	2	6T3017	ROLL PIN
29	1	6T1029	COUPLER CHAIN
30	1	21223	SPROCKET
31	1	TF1124	SQUARE KEY
32	1	6T1033	COUPLER COVER c/w Fittings & Seals
33	1	10.011.20	HOSE - 1" BSP FS/FS x 1000mm
34	1	10.011.22	HOSE - 1" BSP FS/FS x 1200mm
35	2	TF4852	FLANGE KIT
36	11	21988	LOCK WASHER
37	2	RD1032	LYNCH PIN
38	1	33785	HYDRAULIC RAM
39	1	33984	PIN
40	2	8581458	ADAPTOR
41	2	8650102	BONDED SEAL
42	2	8650108	BONDED SEAL
43	2	8600904	O RING
44	2	8581169	ADAPTOR
45	2	8581535	FLANGE c/w O Ring & Bolts
46	2	05.434.01	ADAPTOR
47	1	46043.01	RIGID PIPE
48	2	08.940.02	ADAPTOR - 135°
49	2	10.001.29	HOSE - 1/4" BSP FS/FS x1900mm

SPINDLE ASSEMBLY

Module(s): 6T1024H5

McCONEL



NOTES:

- 1. FREEPLAY: .001" - .003"
- 2. GREASE: FILL WITH MOBILITH SHC 220.
- 3. APPLY LOCTITE "271" TO O-RING PLUG THRDS.

SPINDLE ASSEMBLY

McCONNEL

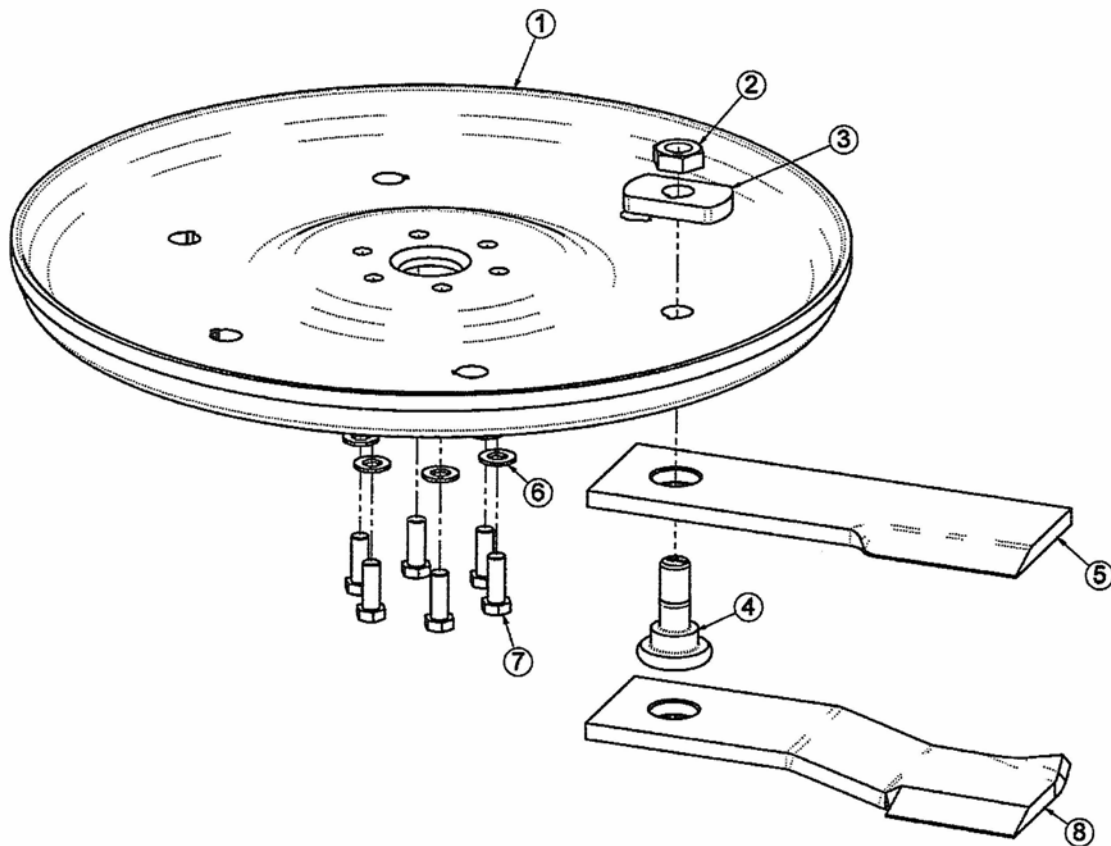
Module(s): 6T1024H5

REF.	QTY.	PART No.	DESCRIPTION
		6T1024H5	SPINDLE ASSEMBLY
1	1	6T1031	* SPROCKET
2	1	6T1016	* BEARING LOCK NUT (THICK)
3	1	22596	* JAM WASHER
4	1	6T1015	* BEARING ADJUSTMENT NUT (THIN)
5	1	6T1014	* BEARING ADJUSTMENT SLEEVE
6	1	6T1011	* UPPER SEAL (SET OF 2)
7	1	6T1012	* BEARING CONE
8	1	6T1013	* BEARING CUP
9	1	6T1010H	SPINDLE HOUSING
10	1	30570	ELBOW FITTING
11	1	33990	GREASER
12	1	6T1013H	* BEARING CUP
13	1	6T1012H	* BEARING CONE
14	1	6T1011H	* LOWER SEAL
15	1	6T1019	* SPINDLE KEY
16	1	PT1018H-5	SPRINDLE
17	1	6503064	O RING PLUG

32572

SPINDLE REBUILD KIT

*Consists of items marked **



REF.	QTY.	PART No.	DESCRIPTION
1	1	6770003	BLADE MOUNTING DISC
2	2	6T1023R	NYLOCK HEX NUT
3	2	34878	SPACER
4	2	6538000	KNIFE MOUNTING BOLT
5	2	06521001	STANDARD KNIFE
6	6	33764	FLAT WASHER
7	6	6T2259	CAPSCREW
8	2	6T1825	GRASS KNIFE (Optional)
		6T1825	LOCTITE (Use on all disc mounting bolts)
		06770012	BOLT KIT (Includes items 6,7 & Loctite)
		06700089	DISC & BOLT KIT (Includes items 1,3 & 7)



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