Publication 560 December 2008 Part No. 41571.60 Revision: 01.03.18

1.0M LIGHT DUTY SLIDING FLAILHEAD

Builds 7490805, 7490976 & Variants

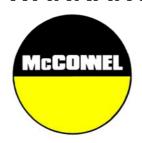


Operator & Parts Manual



IMPORTANT

VERIFICATION OF WARRANTY REGISTRATION



DEALER WARRANTY INFORMATION & REGISTRATION VERIFICATION

It is imperative that the selling dealer registers this machine with McConnel Limited before 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 Signatur	re:

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	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		

WARRANTY POLICY

WARRANTY REGISTRATION

All machines must be registered, by the selling dealer with McConnel Ltd, before delivery to the end user. On receipt of the goods it is the buyer's responsibility to check that the Verification of Warranty Registration in the Operator's Manual has been completed by the selling dealer.

1. LIMITED WARRANTIES

- 1.01. All mounted machines supplied by McConnel Ltd are warranted to be free from defects in material and workmanship from the date of sale to the original purchaser for a period of 12 months, unless a different period is specified.
 - All Self Propelled Machines supplied by McConnel Ltd are warranted to be free from defects in material and workmanship from the date of sale to the original purchaser for a period of 12 months or 1500 hours. Engine warranty will be specific to the Manufacturer of that unit.
- 1.02. All spare parts supplied by McConnel Ltd and purchased by the end user are warranted to be free from defects in material and workmanship from the date of sale to the original purchaser for a period of 6 months. All parts warranty claims must be supported by a copy of the failed part invoice to the end user. We cannot consider claims for which sales invoices are not available.
- 1.03. The warranty offered by McConnel Ltd is limited to the making good by repair or replacement for the purchaser any part or parts found, upon examination at its factory, to be defective under normal use and service due to defects in material or workmanship. Returned parts must be complete and unexamined. Pack the component(s) carefully so that any transit damage is avoided. All ports on hydraulic items should be drained of oil and securely plugged to prevent seepage and foreign body ingress. Certain other components, electrical items for example, may require particular care when packing to avoid damage in transit.
- 1.04. This warranty does not extend to any product from which McConnel Ltd's serial number plate has been removed or altered.
- 1.05. The warranty policy is valid for machines registered in line with the terms and conditions detailed and on the basis that the machines do not extend a period of 24 months or greater since their original purchase date, that is the original invoice date from McConnel Limited.

 Machines that are held in stock for more than 24 months cannot be registered for warranty.
- 1.06. This warranty does not apply to any part of the goods, which has been subjected to improper or abnormal use, negligence, alteration, modification, fitment of non-genuine parts, accident damage, or damage resulting from contact with overhead power lines, damage caused by foreign objects (e.g. stones, iron, material other than vegetation), failure due to lack of maintenance, use of incorrect oil or lubricants, contamination of the oil, or which has served its normal life. This warranty does not apply to any expendable items such as blades, belts, clutch linings, filter elements, flails, flap kits, skids, soil engaging parts, shields, guards, wear pads, pneumatic tyres or tracks.
- 1.07. Temporary repairs and consequential loss i.e. oil, downtime and associated parts are specifically excluded from the warranty.
- 1.08. Warranty on hoses is limited to 12 months and does not include hoses which have suffered external damage. Only complete hoses may be returned under warranty, any which have been cut or repaired will be rejected.
- 1.09. Machines must be repaired immediately a problem arises. Continued use of the machine after a problem has occurred can result in further component failures, for which McConnel Ltd cannot be held liable, and may have safety implications.
- 1.10. If in exceptional circumstances a non McConnel Ltd part is used to effect a repair, warranty reimbursement will be at no more than McConnel Ltd's standard dealer cost for the genuine part.

- 1.11. Except as provided herein, no employee, agent, dealer or other person is authorised to give any warranties of any nature on behalf of McConnel Ltd.
- 1.12. For machine warranty periods in excess of 12 months the following additional exclusions shall apply:
- 1.12.1. Hoses, exposed pipes and hydraulic tank breathers.
- 1.12.2. Filters.
- 1.12.3. Rubber mountings.
- 1.12.4. External electric wiring.
- 1.12.5. Bearings and seals
- 1.12.6. External Cables, Linkages
- 1.12.7. Loose/Corroded Connections, Light Units, LED's
- 1.12.8. Comfort items such as Operator Seat, Ventilation, Audio Equipment
- 1.13. All service work, particularly filter changes, must be carried out in accordance with the manufacturer's service schedule. Failure to comply will invalidate the warranty. In the event of a claim, proof of the service work being carried out may be required.
- 1.14. Repeat or additional repairs resulting from incorrect diagnosis or poor quality previous repair work are excluded from warranty.

NB Warranty cover will be invalid if any non-genuine parts have been fitted or used. Use of non-genuine parts may seriously affect the machine's performance and safety. McConnel Ltd cannot be held responsible for any failures or safety implications that arise due to the use of non-genuine parts.

2. REMEDIES AND PROCEDURES

- 2.01. The warranty is not effective unless the Selling Dealer registers the machine, via the McConnel web site and confirms the registration to the purchaser by completing the confirmation form in the operator's manual.
- 2.02. Any fault must be reported to an authorised McConnel Ltd dealer as soon as it occurs. Continued use of a machine, after a fault has occurred, can result in further component failure for which McConnel Ltd cannot be held liable.
- 2.03. Repairs should be undertaken within two days of the failure. Claims submitted for repairs undertaken more than 2 weeks after a failure has occurred, or 2 days after the parts were supplied will be rejected, unless the delay has been authorised by McConnel Ltd. Please note that failure by the customer to release the machine for repair will not be accepted as a reason for delay in repair or submitting warranty claims.
- 2.04. All claims must be submitted, by an authorised McConnel Ltd Service Dealer, within 30 days of the date of repair.
- 2.05. Following examination of the claim and parts, McConnel Ltd will pay, at their discretion, for any valid claim the invoiced cost of any parts supplied by McConnel Ltd and appropriate labour and mileage allowances if applicable.
- 2.06. The submission of a claim is not a guarantee of payment.
- 2.07. Any decision reached by McConnel Ltd. is final.

3. LIMITATION OF LIABILITY

- 3.01. McConnel Ltd disclaims any express (except as set forth herein) and implied warranties with respect to the goods including, but not limited to, merchantability and fitness for a particular purpose.
- 3.02. McConnel Ltd makes no warranty as to the design, capability, capacity or suitability for use of the goods.
- 3.03. Except as provided herein, McConnel Ltd shall have no liability or responsibility to the purchaser or any other person or entity with respect to any liability, loss, or damage caused or alleged to be caused directly or indirectly by the goods including, but not limited to, any indirect, special, consequential, or incidental damages resulting from the use or operation of the goods or any breach of this warranty. Notwithstanding the above limitations and warranties, the manufacturer's liability hereunder for damages incurred by the purchaser or others shall not exceed the price of the goods.
- 3.04. No action arising out of any claimed breach of this warranty or transactions under this warranty may be brought more than one (1) year after the cause of the action has occurred.

4. MISCELLANEOUS

- 4.01. McConnel Ltd may waive compliance with any of the terms of this limited warranty, but no waiver of any terms shall be deemed to be a waiver of any other term.
- 4.02. If any provision of this limited warranty shall violate any applicable law and is held to be unenforceable, then the invalidity of such provision shall not invalidate any other provisions herein.
- 4.03. Applicable law may provide rights and benefits to the purchaser in addition to those provided herein.

McConnel Limited



DECLARATION OF CONFORMITY

Conforming to EU Machinery Directive 2006/42/EC

We,

McCONNEL LIMITED, Temeside Works, Ludlow, Shropshire SY8 1JL, UK

Hereby declare that:

The Product; Hydraulic Arm Mounted Flailhead

Product Code; BD12, BD16, F110, F112, F115, F012, F016

Manufactured in; United Kingdom

Complies with the required provisions of the Machinery Directive 2006/42/EC The machinery directive is supported by the following harmonized standards;

- BS EN ISO 12100 (2010) Safety of machinery General principles for design Risk assessment and risk reduction.
- BS EN 349 (1993) + A1 (2008) Safety of machinery Minimum distances to avoid the entrapment with human body parts.
- BS EN ISO 14120 (2015) Safety of machinery Guards general requirements for the design and construction of fixed and movable guards.
- BS EN 4413 (2010) Hydraulic fluid power. Safety requirements for systems and their components.

McCONNEL LIMITED operates an ISO 9001:2008 quality management system, certificate number: FM25970.

This system is continually assessed by the;

British Standards Institution (BSI), Beech House, Milton Keynes, MK14 6ES, UK BSI is accredited by UK Accreditation Service, accreditation number: UKAS 003. The EC declaration only applies if the machine stated above is used in accordance with the operating instructions.

CHRISTIAN DAVIES on behalf of McCONNEL LIMITED

Status: General Manager Date: January 2018



For Safety and Performance...

ALWAYS READ THE BOOK FIRST

McCONIEL LIMITED

Temeside Works
Ludlow
Shropshire
England

Telephone: +44 (0)1584 873131 www.mcconnel.com

- 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 an equivalent daily noise exposure level of 85 – 90 dB ear protection is recommended and must always be used if any window is left open.



Operating, servicing and maintaining this equipment can expose you to chemicals including gasoline, diesel fuel, lubricants, petroleum products, engine exhaust, carbon monoxide, and phthalates, which are known to the State of California to cause cancer and birth defects or other

reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. This website, operated by California's Office of Environmental Health Hazard Assessment, provides information about these chemicals and how individuals may be exposed to them.

CONTENTS

	Page No.
Operator Section	
General Information	2
Safety Information	3
Safety Decals	7
Pre-operational Checks	8
Operation	9
Roller Positions	9
Flailhead Arrangement – Grass & Verge Mowing	10
Flailhead Arrangement – Hedge Cutting	14
Hedgecutting Procedure	16
Maintenance	17
Parts Section	
Flailhead Assembly	20
Motor Modules	22
Motor & Mounting Assemblies	24
Rotor Assemblies	25
Roller Assemblies	28
Front Flap Kit (Option)	31
Decals	32

GENERAL INFORMATION

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

Only use 'Genuine McConnel Parts' on McConnel machinery and equipment.

DEFINITIONS: The following definitions apply throughout this manual;

▲ DANGER

DANGER: Alerts to a hazardous situation which will result in death or serious injury if not observed carefully.

AWARNING

WARNING: Alerts to a hazardous situation which could result in death or serious injury if not observed carefully.

ACAUTION

CAUTION: Alerts to a hazardous situation which could result in damage to the machine and/or equipment if not observed carefully.

NOTICE

NOTICE: Specific or general information considered important or useful to emphasise.

LEFT HAND (LH) & RIGHT HAND (RH): These terms are applicable to the machine when fitted to the tractor and viewed from the rear; these terms also apply to tractor references.

SERIAL PLATE

All machines are equipped with a serial number plate containing important information relating to the machine including a unique serial number used for identification purposes.

Note: Images in this manual are provided for instruction and informational purposes only and may not show components in their entirety. In certain instances images may appear different to the actual machine; where this occurs the general procedure will be basically the same. E&OE.

MACHINE & DEALER INFORMATION

Record the serial number of your machine on this page and always quote it when ordering parts. Whenever information concerning the machine is requested remember to also state the make		
and model of tractor to which the machine is fitted.		
Machine Serial Number:	Installation Date:	
Machine Model Details:		
Dealer Name & Branch:		
Dealer Address:		
Dealer Telephone No:		
Dealer Email Address:		



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

When the machine is not in use the cutting head should be lowered to rest on the ground. In the event of a fault being detected with the machine's operation it should be stopped immediately and not used again until the fault has been corrected by a qualified technician.

POTENTIAL SIGNIFICANT DANGERS ASSOCIATED WITH THE USE OF THIS 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).
- A Road traffic accidents due to collision or debris on the road.
- ▲ Burn risk from hot components.

BEFORE USING THIS 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 side(s) 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, quidelines).
- ▲ 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.

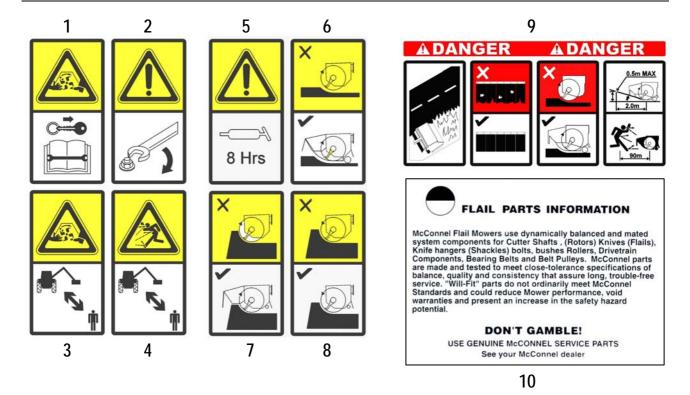
White on blue "Keep right" (*) arrow sign on rear of machine.

* 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

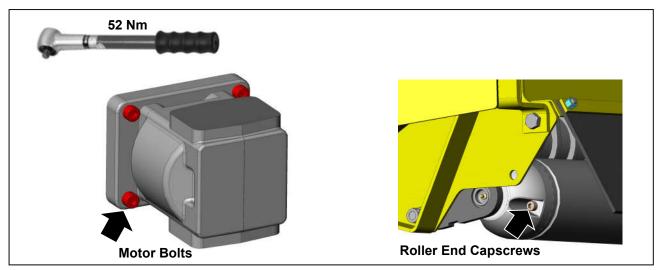
- ▲ On two-way roads one set of signs is needed facing traffic in each direction.
- ▲ Work should be within 1 mile of the signs.
- ▲ Work only when visibility is good and at times of low risk e.g.: NOT during 'rush-hour'.
- ▲ Vehicles should have an amber-flashing beacon.
- ▲ Ideally, vehicles should 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.

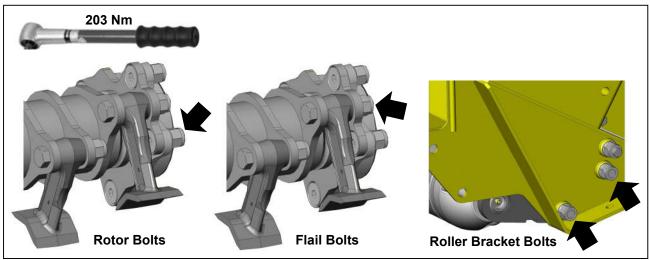
Although the information given here covers a wide range of safety subjects, it is impossible to predict every eventuality that can occur under differing circumstances whilst operating this machine. No advice given here can replace 'good common sense' and 'total awareness' at all times, but will go a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

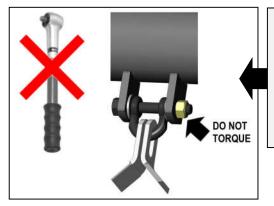


- **1. Caution!** Rotating blades; keep clear of machine, stop machine (wait for rotor to stop), remove starting and read the book first before performing any service or maintenance.
- 2. Caution! Ensure all nuts and bolts are kept tight at all times.
- **3. Caution!** Rotating components; keep clear of the working machine at all times.
- **4. Caution!** Thrown objects risk; keep all persons at a safe distance from the working machine at all times.
- **5. Caution!** Lubricate greasing points on a daily basis prior to work.
- **6. Caution!** Grass/Verge Mowing; front hood, front flap, rear roller and rear flap must be fitted and correctly adjusted when using the machine for grass and verge mowing. Flaps must be in good condition.
- **7. Caution!** Hedging (Uphill cutting); front hood, front flap and rear flap must always be fitted and correctly adjusted. Rear roller should be placed into the raised position. Flaps must be in good condition.
- **8. Caution!** Hedging (Downhill cutting); front hood may be removed, rear flap must be fitted and rear roller placed into the raised position. Flap must be in good condition.
- **9. Danger!** Verge Mowing; front hood, front flaps, rear roller and rear flaps must be fitted. Adjust front hood to the correct height position for verge mowing, front and rear flaps must be in good condition. *Refer to front hood height setting section for details*.
- **10.Important!** Parts information; for safety and performance only use 'Genuine McConnel Service Parts'.

Check all bolts are tight and that the torque figures are correct for the specific locations indicated below:







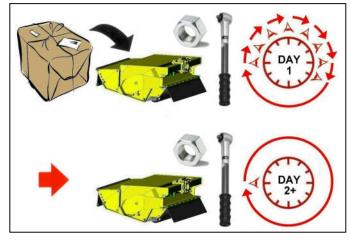
0.9m & 1.0m 'Weld On' Lug Rotors only

Non-bushed flail fixings on 0.9m & 1.0m rotors with 'weld on' lugs **must not** be tightly torqued; they should only be tightened enough to offer a slight clamping effect on the lugs.

Over-tightening flail fixings on these types of rotors can result in distortion of the lugs.

IMPORTANT

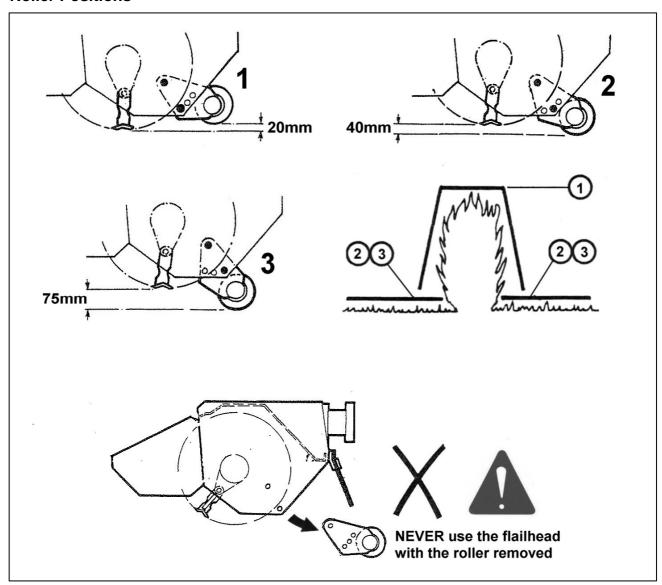
On the first day of use with a new flailhead, nuts should be checked for tightness every hour and retightened if required. Thereafter all nuts should be checked daily prior to use of the machine. Torque nuts to the settings stated above.



Material Thickness Cutting Limitations



Roller Positions



Preliminary Precautions

Inspect the work area prior to operation, remove all hazardous materials and note the locations of immovable obstructions.

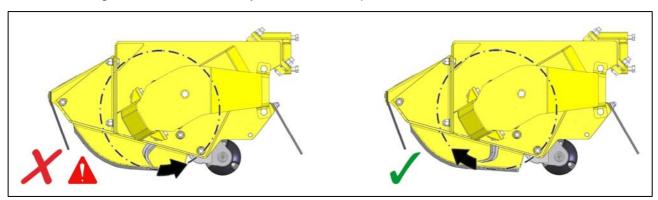
FLAILHEAD ARRANGEMENT - GRASS & VERGE MOWING

Roller Height

The roller position must always be set below the level of the skids, or rotor if skids are not fitted, i.e. in positions 2, 3, 4 or 5, - refer to roller positions on previous page.

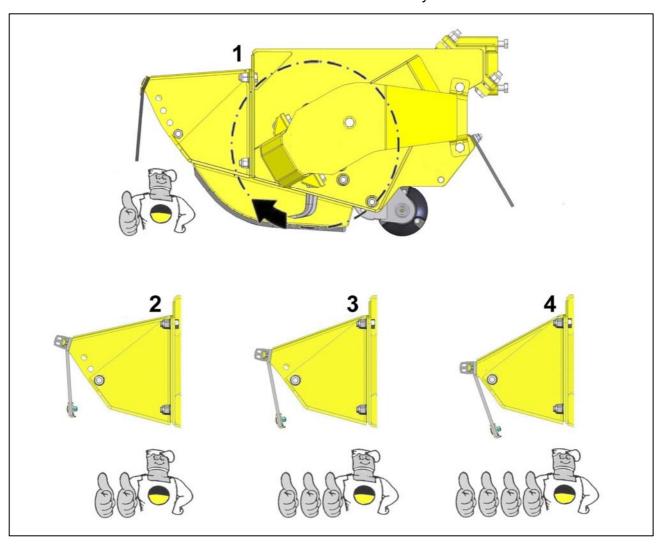
Rotor Direction

When mowing the rotor must always cut with an upwards rotation.



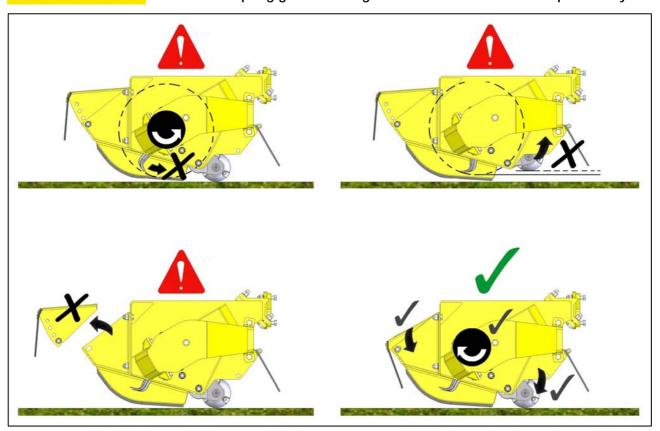
Front Hood

The front hood has 4 adjustment positions for height – the lowest possible position which allows the material to be cut to enter the head should always be used.



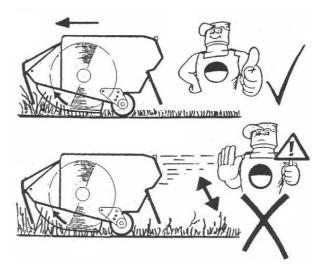
ACAUTION

Before attempting grass mowing ensure the flail head is set up correctly.



TRACTOR FORWARD SPEED

The material being cut determines tractor forward speed. Forward speed can be as fast as that which allows the flail head sufficient time to cut the vegetation properly. Too fast a speed will be indicated by over frequent operation of the breakaway system, a fall off in tractor engine revs and a poor finish to the work leaving ragged uncut tufts and poorly mulched cuttings.



Front Hood - Verge Mowing

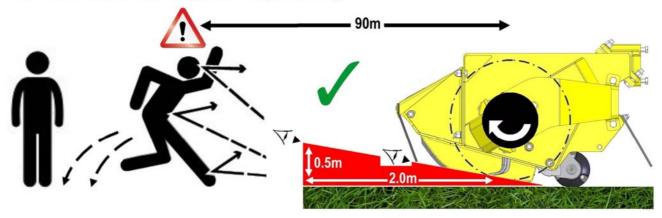
For verge mowing a front hood and front flap kit must be fitted and adjusted to a height that will minimise the distance materials and/or unspecified objects can be accidentally ejected. Skid kit, rear roller and rear flap must also be fitted for all mowing duties.

Hood/Flap Height Setting

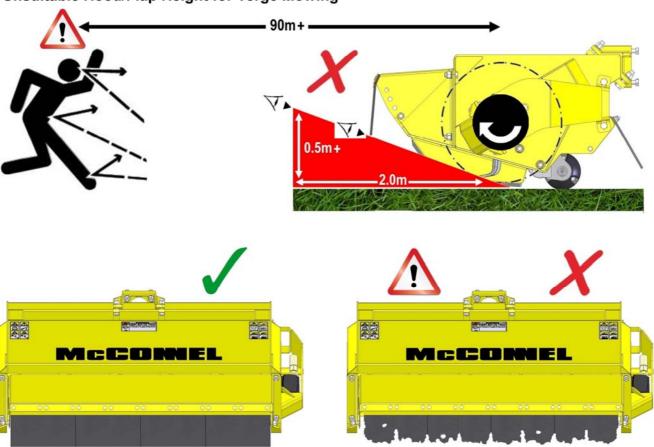
To reduce the distance that objects can be ejected from the machine during work, the front hood and flaps should be set at the lowest possible setting that will still allow the work materials to efficiently enter the head but should not be above the recommended maximum height.

The recommended maximum height is calculated as follows; at a forward distance of 2 metres from the flail/material contact point, the line of sight of the flail tips, beneath the front flaps, should not be visible above a height of 0.5m. Refer to illustrations below.

Maximum Hood/Flap Height for Verge Mowing



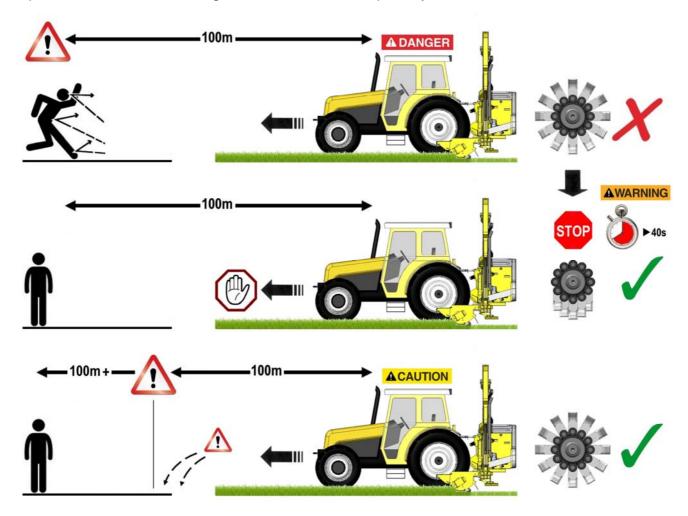
Unsuitable Hood/Flap Height for Verge Mowing



Ensure all flaps are in good condition; excessively worn, damaged or missing flaps must be replaced immediately before use.

Danger Zone – Verge Mowing / Mowing in Public Areas

For verge mowing and mowing duties in public places the front hood and flap must be positioned at the specified recommended height for verge mowing. If persons or animals come within 100m of the working machine, forward travel must be halted immediately and the rotor switched off; operations must not be resumed until they are clear of the danger zone. Caution must be adopted at all times when working in these types of areas as the operator's vision of the danger zone can be interrupted by corners and obstacles.



▲ DANGER

Forward travel and rotor operation must be halted immediately when persons and/or animals are within 100m of the working machine.

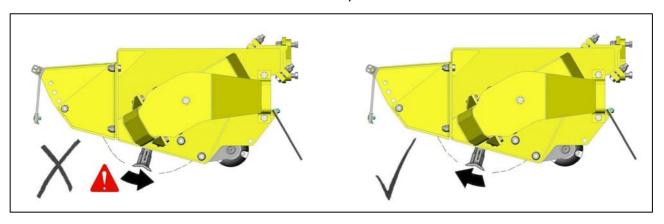
FLAILHEAD ARRANGEMENT - HEDGE CUTTING (Standard Duty)

Roller Height

The roller position must always be set above the level of the rotor in positions 1 - refer to roller positions page.

Rotor Direction

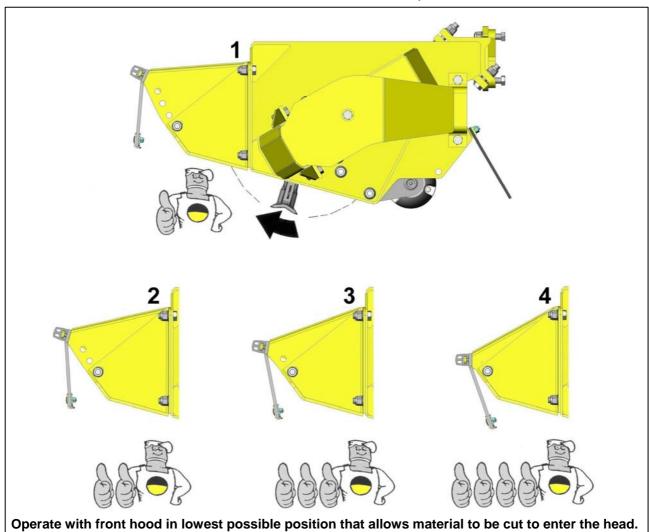
For the best finish the rotor should cut with an upwards rotation.



Front Hood

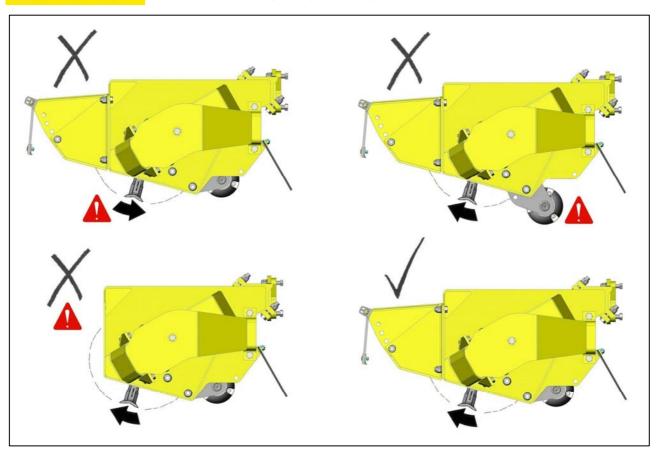
On universal heads the front rubber flaps, and skids if fitted, may be removed to aid the entry of the material to be cut into the flail head.

The front hood has 4 adjustment positions for height – the lowest possible position which allows the material to be cut to enter the head should always be used.





ACAUTION Before attempting hedge cutting ensure the flail head is set up correctly.



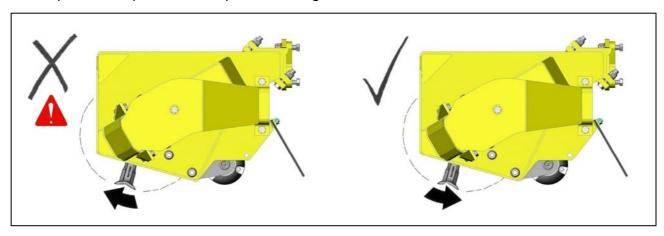
FLAILHEAD ARRANGEMENT - HEDGE CUTTING (Heavy Duty)

Roller Height

The roller position must always be set above the level of the rotor in positions 1 - refer to roller position page.

Rotor Direction

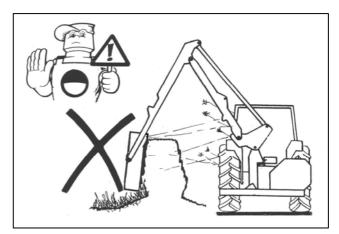
Where the size and density of material to be cut makes it necessary for the front hood and carrier plates to be removed to allow the rotor to cut, the rotor must always cut in a downwards rotation. It must be noted that this will result in a poorer finish to the work and will require more power than upward cutting.





Never cut on the blind side of the hedge

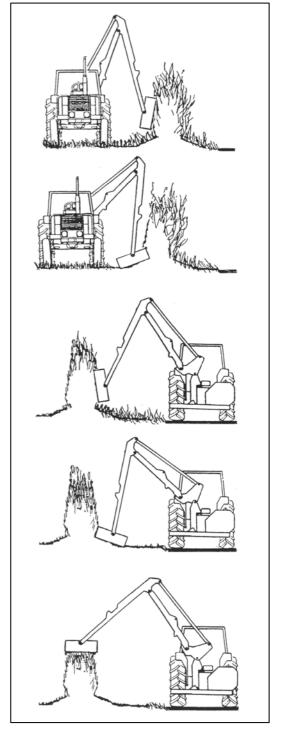
It is impossible to see potential hazards or dangers and the position of the flail head may allow debris to be propelled through the hedge towards the tractor and the operator.



Cut the side and bottom of the field side first. This leaves the maximum thickness of hedge on the road side to prevent the possibility of debris being thrown through the hedge into the path of oncoming vehicles.

Cut the side and bottom of the road side.

Top cut the hedge to the height required.



MAINTENANCE

Frequently inspect the rotor assembly for damaged or missing flails – Never operate or attempt to run the rotor with flails missing, imbalance will cause severe vibration and can rapidly damage the rotor shaft bearings. As an emergency measure, if a flail is broken off or missing, removal of an opposing flail on the opposite side of the rotor will retain the balance. Replace the flails at the earliest possible opportunity and always replace in opposite pairs. Never match up a new flail with a sharpened or damaged flail as the latter will be lighter thus causing imbalance of the rotor.

Blunt flails absorb more power and leave an untidy finish to the work. They should be sharpened on a grindstone or with a portable grinder periodically. Always wear protective gear when sharpening flails.

Lubrication

Grease all lubrication points on a daily basis..



For best performance ...

USE ONLY GENUINE McCONNEL 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:

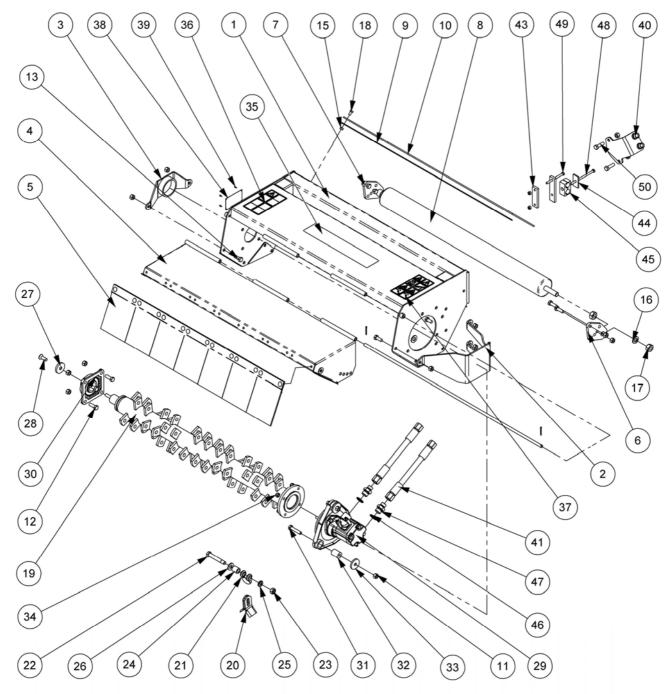
- Machine Type
- Serial Number
- Part Number

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.

1.0M SLIDING FLAILHEAD ASSEMBLY

Module(s): 7490805, 7490976

McCONNEL



REF.	QTY.	PART No. 7490805 7490976	DESCRIPTION 1.0M SLIDING FLAILHEAD ASSEMBLY 1.0M SLIDING FLAILHEAD ASSEMBLY
1	1	41282.12	CASING - 1.0m RH IB / LH OB (SLIDING)
	1	41282.11	CASING - 1.0m RH OB / LH IB (SLIDING)
2	1	42495.01	MOTOR COVER - L/H
	1	42495.02	MOTOR COVER - R/H
3	1	42496.01	BEARING COVER
4	1	7442250	FRONT HOOD KIT
5	1	7442254	FRONT FLAP KIT
6	1	41285.03	ROLLER BRACKET - L/H
7	1	41285.04	ROLLER BRACKET - R/H

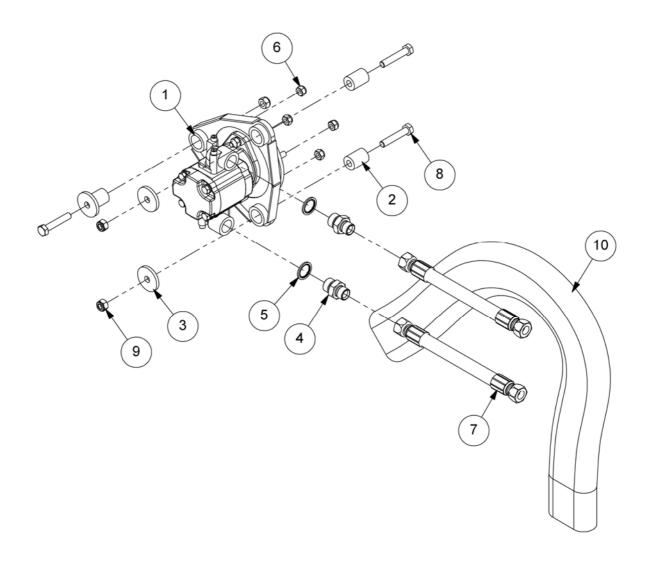
Continued...

1.0M SLIDING FLAILHEAD ASSEMBLY

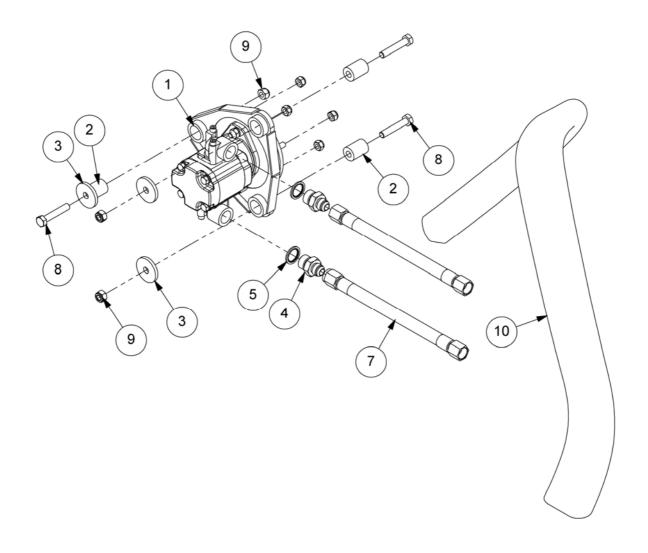
Module(s): 7490805, 7490976



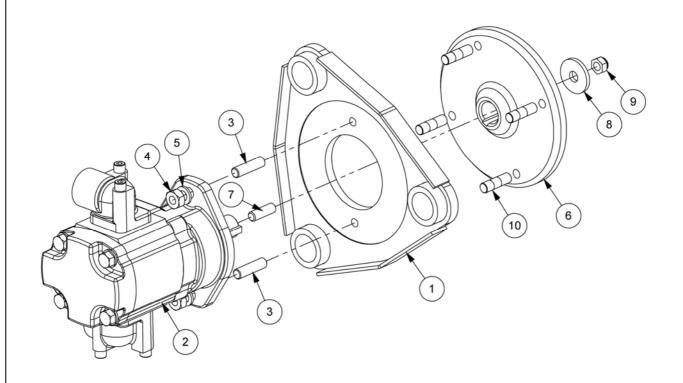
No. No.
9 1 41290.02 CLAMP STRIP 10 1 41289.02 REAR FLAP 11 18 9143006 SELF-LOCKING NUT 12 8 9313076 SET SCREW 13 2 9313066 SET SCREW 14 3 9313056 SET SCREW 15 11 9143004 SELF-LOCKING NUT 16 2 9100208 SPRING WASHER 17 4 9113008 NUT 18 9 9313034 SET SCREW 19 1 41284.02 ROTOR - 1.0M 20 56 7190166 GRASS FLAIL 21 28 05.895.01 SHACKLE 22 28 05.775.10 SPECIAL BOLT 23 28 05.968.06 SELF-LOCKING NUT 24 28 02.807.01 SPACER 25 28 9100207 SPRING WASHER 27 1 42503.01 SPECIAL WASHER 27 1 42503.01 SPECIAL WASHER 27 1 42603.02 MOTOR ASSEMBLY 1 42603.04 MOTOR ASSEMBLY 28 1 9353076 CAPSCREW 29 1 42603.04 MOTOR ASSEMBLY 30 3 03.871.01 RUBBER BUSH 31 3 9213126 BOLT 32 3 03.871.01 RUBBER BUSH 33 1 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - MCCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL No. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 58" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
10
11 18 9143006 SELF-LOCKING NUT 12 8 9313076 SETSCREW 13 2 9313066 SETSCREW 14 3 9313056 SETSCREW 15 11 9143004 SELF-LOCKING NUT 16 2 9100208 SPRING WASHER 17 4 9113008 NUT 18 9 9313034 SETSCREW 19 1 41284.02 ROTOR - 1.0M 20 56 7190166 GRASS FLAIL 21 28 05.895.01 SHACKLE 22 28 05.775.10 SPECIAL BOLT 23 28 05.968.06 SELF-LOCKING NUT 24 28 02.807.01 SPACER 25 28 9100207 SPRING WASHER 26 56 05.281.04 FLAT WASHER 27 1 42503.01 SPECIAL WASHER 28 1 9353076 CAPSCREW 29 1 42603.02 MOTOR ASSEMBLY 29 1 42603.02 MOTOR ASSEMBLY 29 1 42603.04 MOTOR ASSEMBLY 30 1 03.008.01 BEARING FLANGE 31 3 9213126 BOLT 32 3 03.871.01 RUBBER BUSH 33 3 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - McCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL NO. PLATE 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
12 8 9313076 SETSCREW 13 2 9313066 SETSCREW 14 3 9313056 SETSCREW 15 11 9143004 SELF-LOCKING NUT 16 2 9100208 SPRING WASHER 17 4 9113008 NUT 18 9 9313034 SETSCREW 19 1 41284.02 ROTOR - 1.0M 20 56 7190166 GRASS FLAIL 21 28 05.895.01 SHACKLE 22 28 05.775.10 SPECIAL BOLT 23 28 05.968.06 SELF-LOCKING NUT 24 28 02.807.01 SPACER 25 28 9100207 SPRING WASHER 27 1 42503.01 SPACER 27 1 42503.01 SPECIAL WASHER 27 1 42603.02 MOTOR ASSEMBLY 29 1 42603.02 MOTOR ASSEMBLY 1 42603.04 MOTOR ASSEMBLY (Drain Line Motor) 30 1 03.008.01 BEARING FLANGE 31 3 9213126 BOLT 32 3 03.871.01 RUBBER BUSH 33 3 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - MCCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL NO, PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
13 2 9313066 SETSCREW 14 3 9313056 SETSCREW 15 11 9143004 SELF-LOCKING NUT 16 2 9100208 SPRING WASHER 17 4 9113008 NUT 18 9 9313034 SETSCREW 19 1 41284.02 ROTOR - 1.0M 20 56 7190166 GRASS FLAIL 21 28 05.895.01 SHACKLE 22 28 05.775.10 SPECIAL BOLT 23 28 05.968.06 SELF-LOCKING NUT 24 28 02.807.01 SPACER 25 28 9100207 SPRING WASHER 26 56 05.281.04 FLAT WASHER 27 1 42503.01 SPECIAL WASHER 28 1 9353076 CAPSCREW 29 1 42603.02 MOTOR ASSEMBLY 1 42603.04 MOTOR ASSEMBLY (Drain Line Motor) 30 1 03.008.01 BEARING FLANGE 31 3 9213126 BOLT 32 3 03.871.01 RUBBER BUSH 33 3 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - MCCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL NO. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
14 3 9313056 SETSCREW 15 11 9143004 SELF-LOCKING NUT 16 2 9100208 SPRING WASHER 17 4 9113008 NUT 18 9 9313034 SETSCREW 19 1 41284.02 ROTOR - 1.0M 20 56 7190166 GRASS FLAIL 21 28 05.895.01 SHACKLE 22 28 05.775.10 SPECIAL BOLT 23 28 05.968.06 SELF-LOCKING NUT 24 28 02.807.01 SPACER 25 28 9100207 SPRING WASHER 26 56 05.281.04 FLAT WASHER 27 1 42503.01 SPECIAL WASHER 28 1 9353076 CAPSCREW 29 1 42603.02 MOTOR ASSEMBLY (Drain Line Motor) 30 1 03.008.01 BEARING FLANGE 31 3 9213126 BOLT 32 3 03.871.01 RUBBER BUSH 33 3 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - MCCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL No. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
15 11 9143004 SELF-LOCKING NUT 16 2 9100208 SPRING WASHER 17 4 9113008 NUT 18 9 9313034 SETSCREW 19 1 41284.02 ROTOR - 1.0M 20 56 7190166 GRASS FLAIL 21 28 05.895.01 SHACKLE 22 28 05.775.10 SPECIAL BOLT 23 28 05.968.06 SELF-LOCKING NUT 24 28 02.807.01 SPACER 25 28 9100207 SPRING WASHER 26 56 05.281.04 FLAT WASHER 27 1 42503.01 SPECIAL WASHER 28 1 9353076 CAPSCREW 29 1 42603.02 MOTOR ASSEMBLY (Drain Line Motor) 30 1 03.008.01 BEARING FLANGE 31 3 9213126 BOLT 32 3 03.871.01 RUBBER BUSH 33 3 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - MCCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL No. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
16 2 9100208 SPRING WASHER 17 4 9113008 NUT 18 9 9313034 SETSCREW 19 1 41284.02 ROTOR - 1.0M 20 56 7190166 GRASS FLAIL 21 28 05.895.01 SHACKLE 22 28 05.775.10 SPECIAL BOLT 23 28 05.968.06 SELF-LOCKING NUT 24 28 02.807.01 SPACER 25 28 9100207 SPRING WASHER 26 56 05.281.04 FLAT WASHER 27 1 42503.01 SPECIAL WASHER 28 1 9353076 CAPSCREW 29 1 42603.02 MOTOR ASSEMBLY 1 42603.04 MOTOR ASSEMBLY (Drain Line Motor) 30 1 03.008.01 BEARING FLANGE 31 3 9213126 BOLT 32 3 03.871.01 RUBBER BUSH 33 3 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - McCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL NO. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm
17 4 9113008 NUT 18 9 9313034 SETSCREW 19 1 41284.02 ROTOR - 1.0M 20 56 7190166 GRASS FLAIL 21 28 05.895.01 SHACKLE 22 28 05.775.10 SPECIAL BOLT 23 28 05.968.06 SELF-LOCKING NUT 24 28 02.807.01 SPACER 25 28 9100207 SPRING WASHER 26 56 05.281.04 FLAT WASHER 27 1 42503.01 SPECIAL WASHER 28 1 9353076 CAPSCREW 29 1 42603.02 MOTOR ASSEMBLY (Drain Line Motor) 30 1 03.008.01 BEARING FLANGE 31 3 9213126 BOLT 32 3 03.871.01 RUBBER BUSH 33 3 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - MCCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL No. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
18 9 9313034 SETSCREW 19 1 41284.02 ROTOR - 1.0M 20 56 7190166 GRASS FLAIL 21 28 05.895.01 SHACKLE 22 28 05.775.10 SPECIAL BOLT 23 28 05.968.06 SELF-LOCKING NUT 24 28 02.807.01 SPACER 25 28 9100207 SPRING WASHER 26 56 05.281.04 FLAT WASHER 27 1 42503.01 SPECIAL WASHER 28 1 9353076 CAPSCREW 29 1 42603.02 MOTOR ASSEMBLY MOTOR ASSEMBLY (Drain Line Motor) 30 1 03.008.01 BEARING FLANGE 31 3 9213126 BOLT 32 3 03.871.01 RUBBER BUSH 33 3 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - McCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL NO. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
19
20 56 7190166 GRASS FLAIL 21 28 05.895.01 SHACKLE 22 28 05.775.10 SPECIAL BOLT 23 28 05.968.06 SELF-LOCKING NUT 24 28 02.807.01 SPACER 25 28 9100207 SPRING WASHER 26 56 05.281.04 FLAT WASHER 27 1 42503.01 SPECIAL WASHER 28 1 9353076 CAPSCREW 29 1 42603.02 MOTOR ASSEMBLY 1 42603.04 MOTOR ASSEMBLY (Drain Line Motor) 30 1 03.008.01 BEARING FLANGE 31 3 9213126 BOLT 32 3 03.871.01 RUBBER BUSH 33 3 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - MCCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL NO. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
21 28 05.895.01 SHACKLE 22 28 05.775.10 SPECIAL BOLT 23 28 05.968.06 SELF-LOCKING NUT 24 28 02.807.01 SPACER 25 28 9100207 SPRING WASHER 26 56 05.281.04 FLAT WASHER 27 1 42503.01 SPECIAL WASHER 28 1 9353076 CAPSCREW 29 1 42603.02 MOTOR ASSEMBLY 1 42603.04 MOTOR ASSEMBLY (Drain Line Motor) 30 1 03.008.01 BEARING FLANGE 31 3 9213126 BOLT 32 3 03.871.01 RUBBER BUSH 33 3 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - McCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL No. PLATE 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
22 28 05.775.10 SPECIAL BOLT 23 28 05.968.06 SELF-LOCKING NUT 24 28 02.807.01 SPACER 25 28 9100207 SPRING WASHER 26 56 05.281.04 FLAT WASHER 27 1 42503.01 SPECIAL WASHER 28 1 9353076 CAPSCREW 29 1 42603.02 MOTOR ASSEMBLY 1 42603.04 MOTOR ASSEMBLY (Drain Line Motor) 30 1 03.008.01 BEARING FLANGE 31 3 9213126 BOLT 32 3 03.871.01 RUBBER BUSH 33 3 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - McCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL NO. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
23 28 05.968.06 SELF-LOCKING NUT 24 28 02.807.01 SPACER 25 28 9100207 SPRING WASHER 26 56 05.281.04 FLAT WASHER 27 1 42503.01 SPECIAL WASHER 28 1 9353076 CAPSCREW 29 1 42603.02 MOTOR ASSEMBLY 1 42603.04 MOTOR ASSEMBLY (Drain Line Motor) 30 1 03.008.01 BEARING FLANGE 31 3 9213126 BOLT 32 3 03.871.01 RUBBER BUSH 33 3 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - McCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL No. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
24 28 02.807.01 SPACER 25 28 9100207 SPRING WASHER 26 56 05.281.04 FLAT WASHER 27 1 42503.01 SPECIAL WASHER 28 1 9353076 CAPSCREW 29 1 42603.02 MOTOR ASSEMBLY 1 42603.04 MOTOR ASSEMBLY (Drain Line Motor) 30 1 03.008.01 BEARING FLANGE 31 3 9213126 BOLT 32 3 03.871.01 RUBBER BUSH 33 3 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - McCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL No. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
25 28 9100207 SPRING WASHER 26 56 05.281.04 FLAT WASHER 27 1 42503.01 SPECIAL WASHER 28 1 9353076 CAPSCREW 29 1 42603.02 MOTOR ASSEMBLY 1 42603.04 MOTOR ASSEMBLY (Drain Line Motor) 30 1 03.008.01 BEARING FLANGE 31 3 9213126 BOLT 32 3 03.871.01 RUBBER BUSH 33 3 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - McCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL No. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
26 56 05.281.04 FLAT WASHER 27 1 42503.01 SPECIAL WASHER 28 1 9353076 CAPSCREW 29 1 42603.02 MOTOR ASSEMBLY 1 42603.04 MOTOR ASSEMBLY (Drain Line Motor) 30 1 03.008.01 BEARING FLANGE 31 3 9213126 BOLT 32 3 03.871.01 RUBBER BUSH 33 3 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - McCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL No. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
27 1 42503.01 SPECIAL WASHER 28 1 9353076 CAPSCREW 29 1 42603.02 MOTOR ASSEMBLY 1 42603.04 MOTOR ASSEMBLY (Drain Line Motor) 30 1 03.008.01 BEARING FLANGE 31 3 9213126 BOLT 32 3 03.871.01 RUBBER BUSH 33 3 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - McCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL No. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
28
1 42603.02 MOTOR ASSEMBLY 1 42603.04 MOTOR ASSEMBLY (Drain Line Motor) 30 1 03.008.01 BEARING FLANGE 31 3 9213126 BOLT 32 3 03.871.01 RUBBER BUSH 33 3 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - McCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL No. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
1 42603.04 MOTOR ASSEMBLY (Drain Line Motor) 30 1 03.008.01 BEARING FLANGE 31 3 9213126 BOLT 32 3 03.871.01 RUBBER BUSH 33 3 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - McCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL No. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
30
31 3 9213126 BOLT 32 3 03.871.01 RUBBER BUSH 33 3 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - McCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL No. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
32 3 03.871.01 RUBBER BUSH 33 3 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - McCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL No. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
33 3 02.824.01 WASHER 34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - McCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL No. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
34 4 05.968.02 FINE SELF-LOCKING NUT 35 1 305879 DECAL - McCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL No. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
35 1 305879 DECAL - McCONNEL 36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL No. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
36 1 1290738 DECAL - FLAILHEAD 37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL No. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
37 1 09.821.35 COMBINED EURO DECAL 38 1 1335246 SERIAL No. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
38 1 1335246 SERIAL No. PLATE 39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
39 4 7103230 POP RIVET 40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
40 1 41297.01 HOSE BRACKET 41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
41 2 10.007.23 HOSE - 5/8" BSP FS/FS x 1300mm 42 1 21874.01 CLAMP BAR - LONG
42 1 21874.01 CLAMP BAR - LONG
42 1 21874.01 CLAMP BAR - LONG
43 1 21874.02 CLAMP BAR - SHORT
44 1 06.418.03 CLAMP PLATE
45 1 06.430.09 DOUBLE HOSE CLAMP
46 2 8650106 BONDED SEAL
47 2 8581270 BSP ADAPTOR
48 1 9213284 BOLT
49 1 9213204 BOLT
50 2 9313086 SETSCREW



REF.	QTY.	PART NO.	DESCRIPTION
		22495.32	MOTOR MODULE
1	1	42603.02	MOTOR ASSEMBLY
2	3	03.871.01	RUBBER BUSH
3	3	02.824.01	WASHER
4	2	8581270	ADAPTOR (BSP)
5	2	8650106	BONDED SEAL
6	4	05.968.02	FINE SELF-LOCKING NUT
7	2	10.007.30	HOSE - 5/8" BSP FS/FS x 2000mm
8	3	9213136	BOLT
9	3	9163006	NYLOC NUT
10	1	22590.26	HOSE SLEEVING (1600mm)



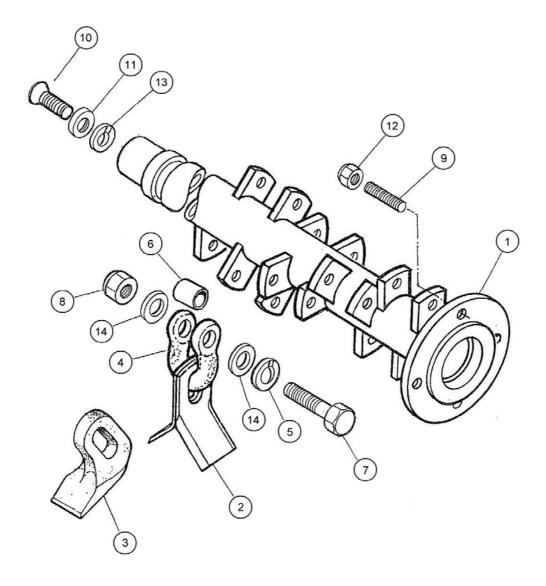
REF.	QTY.	PART NO.	DESCRIPTION
		22495.44	MOTOR MODULE (JIC)
1	1	42603.02	MOTOR ASSEMBLY
2	3	03.871.01	RUBBER BUSH
3	3	02.824.01	WASHER
4	2	8581271	ADAPTOR (JIC)
5	2	8650106	BONDED SEAL
6	4	05.968.02	FINE SELF-LOCKING NUT
7	2	41674.30	HOSE - 7/8" JIC FS/FS x 2000mm
8	3	9213136	BOLT
9	3	9163006	NYLOC NUT
10	1	22590.26	HOSE SLEEVING (1600mm)



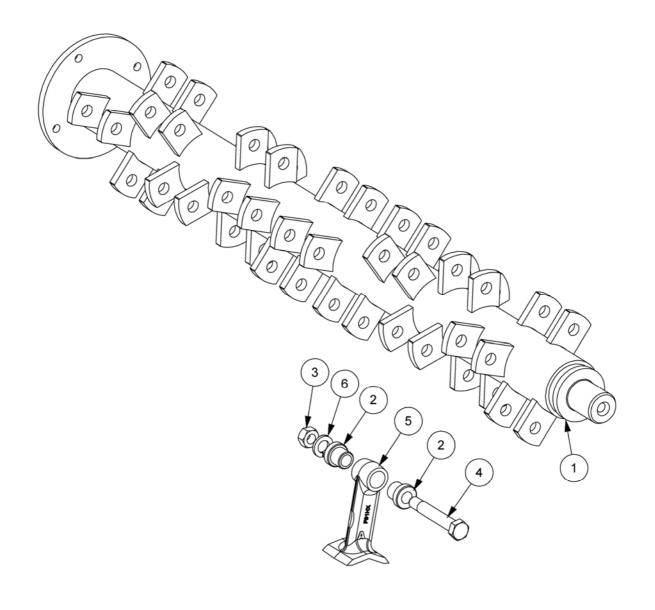
REF	QTY	PART No. 42603.02 42603.04		DESCRIPTION MOTOR & MOUNTING ASSEMBLY MOTOR & MOUNTING ASSEMBLY
1	1	09.132.01		MOTOR MOUNTING PLATE
2	1	08.785.05	*	MOTOR ASSEMBLY - 42603.02 build
	1	8301308	**	MOTOR ASSEMBLY - 42603.04 build
3	2	04.282.56		STUD
4	2	9113005		PLAIN NUT
5	2	9100205		SPRING WASHER
6	1	03.833.01		DRIVE PLATE
7	1	03.960.02		STUD
8	1	03.959.02		WASHER
9	1	0141000		CLEVELOC NUT
10	4	03.917.01		STUD

- * Motor without Drain Line
- ** Motor with Drain Line



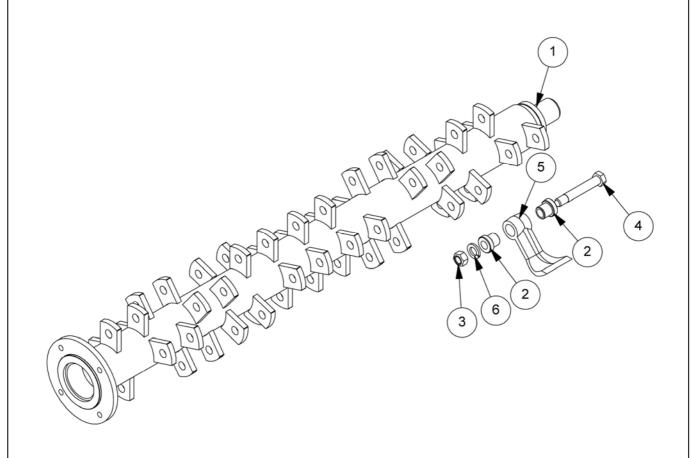


REF.	QTY.	PART No.	DESCRIPTION ROTOR ASSEMBLY & FLAIL OPTIONS
1	1	41284.02	ROTOR ASSEMBLY
2	56	7190166	FLAIL - GRASS
3	28	7190463	FLAIL - UNIVERSAL
4	28	05.895.01	SHACKLE
5	28	9100207	SPRING WASHER
6	28	02.807.01	SPACER
7	28	05.775.10	SPECIAL BOLT
8	28	05.968.06	SELF-LOCKING NUT
9	4	03.917.01	STUD
10	1	9353073	SETSCREW
11	1	42503.01	SPECIAL WASHER
12	4	05.968.02	SELF-LOCKING NUT
13	1	9100206	SPRING WASHER
14	56	05.281.04	PLAIN WASHER



REF.	QTY.	PART No.	DESCRIPTION
		21959.11	1.0M ROTOR ASSEMBLY - F91HX Flails
1	1	41284.02	1.0M ROTOR
2	56	21637.01	FLAIL BUSH - STEPPED
3	28	05.968.06	SELF LOCKING NUT
4	28	05.775.10	BOLT - SPECIAL
5	28	7191320	F91HX CAST FLAIL
6	28	9100207	SPRING WASHER



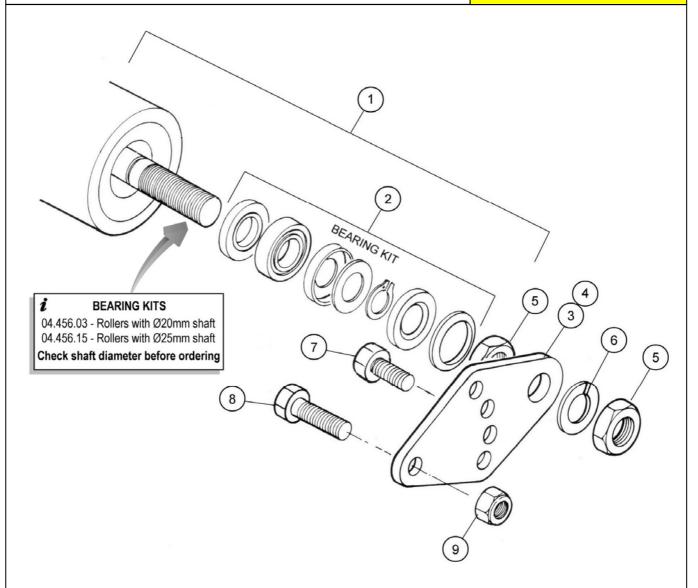


REF.	QTY.	PART No.	DESCRIPTION
		21959.11	1.0M ROTOR ASSEMBLY - F91 SE Flails
1	1	41284.02	1.0M ROTOR
2	56	21637.01	FLAIL BUSH - STEPPED
3	28	05.968.06	SELF LOCKING NUT
4	28	05.775.10	BOLT - SPECIAL
5	28	7198390	SINGLE EDGE FLAIL
6	28	9100207	SPRING WASHER

1.0M ROLLER ASSEMBLY

Module(s): 41301.02





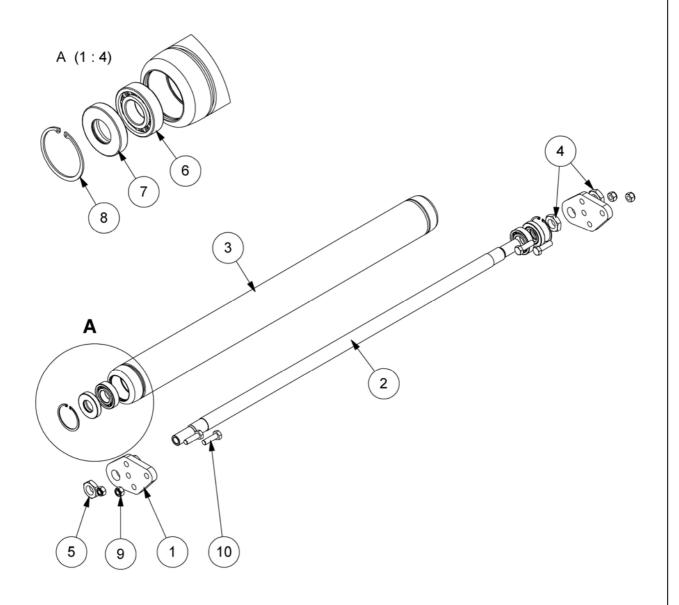
REF.	QTY.	PART No.	DESCRIPTION ROLLER ASSEMBLY & FITTINGS
1	1	41301.02	1.0M ROLLER ASSEMBLY
2	1	04.456.03	BEARING KIT - Rollers with Ø20mm shaft
	1	04.456.15	BEARING KIT - Rollers with Ø25mm shaft
3	1	41285.03	ROLLER BRACKET - L/H
4	1	41285.04	ROLLER BRACKET - R/H
5	4	9113008	PLAIN NUT
6	2	9100208	SPRING WASHER
7	2	9313066	SETSCREW
8	2	9313086	SETSCREW
9	2	9143006	SELF-LOCKING NUT

 $\emph{\emph{i}}$ Bearing Kits; measure Roller Shaft diameter and order accordingly.

1.0M ROLLER ASSEMBLY

Module(s): 22562.22



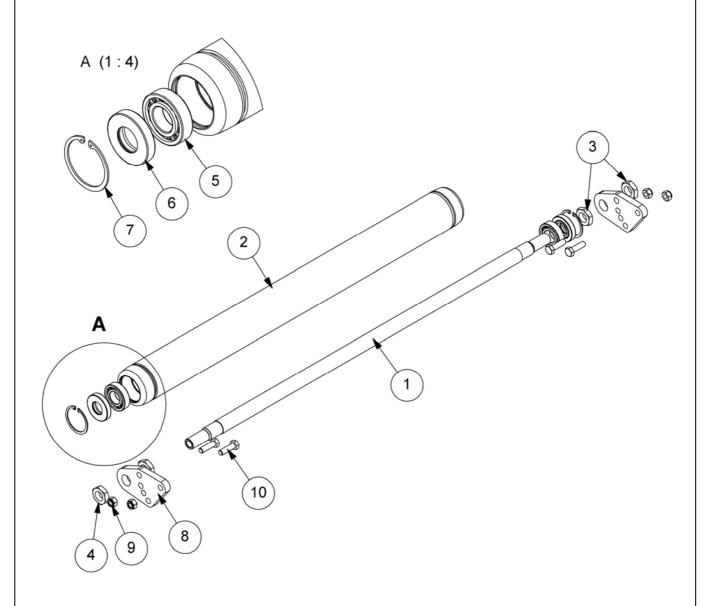


REF.	QTY.	PART No.	DESCRIPTION
		22562.22	1.0M ROLLER ASSEMBLY
1	2	41285.08	ROLLER BRACKET
2	1	22562.04	ROLLER SHAFT - 1.0M
3	1	22562.13	ROLLER - 1.0M
4	2	0131039	LH LOCKNUT
5	2	0131009	LOCKNUT
6	2	0600100	BEARING
7	2	8629250	SHAFT SEAL
8	2	0411262	INTERNAL CIRCLIP
9	4	9163006	NYLOC NUT
10	4	9213086	BOLT

1.0M ROLLER ASSEMBLY

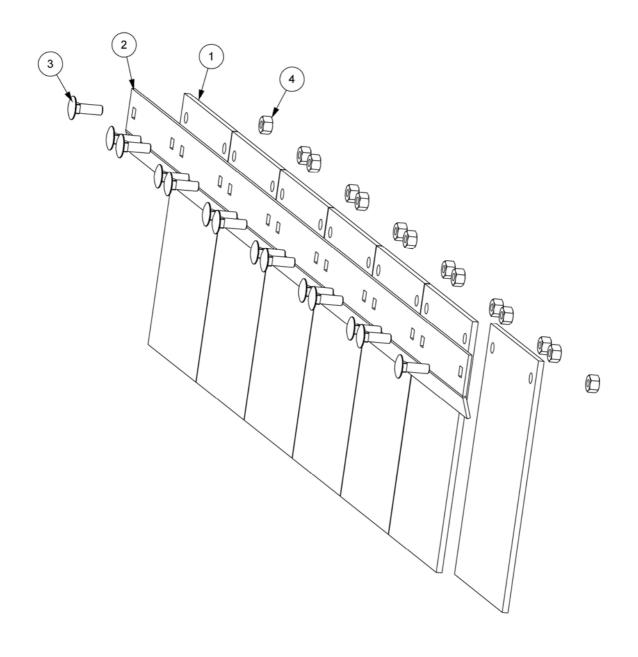
Module(s): 22562.29



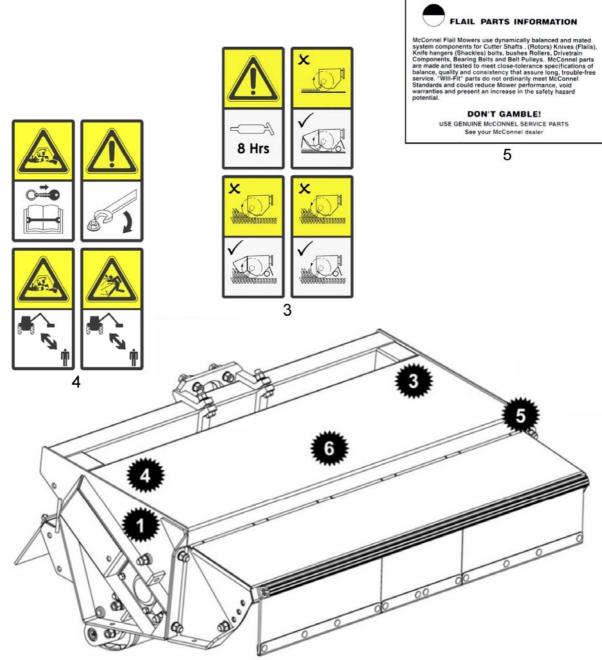


REF.	QTY.	PART No.	DESCRIPTION
		22562.29	1.0M ROLLER ASSEMBLY
1	1	22562.04	ROLLER SHAFT - 1.0M
2	1	22562.13	ROLLER - 1.0M
3	2	0131039	LH LOCKNUT
4	2	0131009	LOCKNUT
5	2	0600100	BEARING
6	2	8629250	SHAFT SEAL
7	2	0411262	INTERNAL CIRCLIP
8	2	41285.09	ROLLER BRACKET
9	4	9163006	NYLOC NUT
10	4	9213086	BOLT

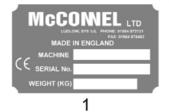




REF.	QTY.	PART No.	DESCRIPTION
		7442254	FRONT FLAP KIT - 1.0M
1	7	41296.02	FRONT FLAP (2 HOLES)
2	1	41291.02	FRONT FLAP CLAMP STRIP
3	14	9293054	CUP HEAD SCREW
4	14	9143004	SELE-LOCKING NUT



Flailhead shown is for general illustration purposes only and appearance may differ from your particular model





г	`		\sim	Λ		\sim
1	,	_	١,	н	ı	\boldsymbol{c}

Module(s):



REF.	QTY.	PART No.	DESCRIPTION FLAILHEAD DECALS
1	1	1335246	SERIAL No. PLATE
2	4	7103230	POP RIVET
3	1	1290738	DECAL - FLAILHEAD
4	1	09.821.35	DECAL - COMBINED EURO
5	1	1290392	DECAL - PARTS
6	1	1290255	DECAL - McCONNEL

