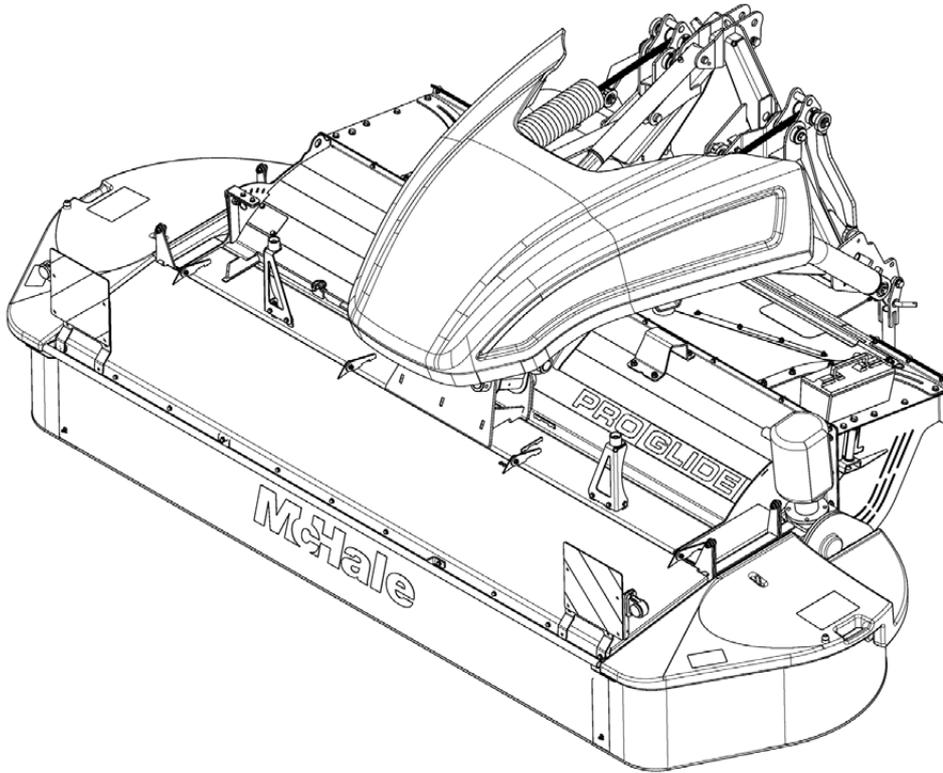


McHale **PRO GLIDE**



Pro Glide F3100 Front Disc Mower Operator Instruction Manual Issue 1

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CLT00792_3

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McHale Pro Glide F3100 Front Disc Mower

Thank you for buying this **McHale** machine, you have chosen wisely!
Given proper care and attention, you can expect it to provide you with
years of dependable service.

Warranty/Guarantee

Attention End User!

Please ensure your machine is fully registered with **McHale**,
by your dealer, at the time of delivery.
Failure of the dealer to register the machine will render your warranty void!
You can check the registration of your machine by visiting **www.mchale.net**.

It is important to quote the machine serial number when ordering spare parts or
requesting technical assistance. Space is provided below to record machine details.
(See 'Description of the serial number plate')

Serial number:	
Year of manufacture:	
Date of delivery:	

If you require further copies of this instruction manual,
please quote part number: CLT00792

Due to a policy of continuous product development and improvement, **McHale**
Engineering reserves the right to alter machine specifications without prior notice and
any obligation to make changes or additions to the equipment previously sold.

It is vital to replace defective parts of the machine immediately and to use only genuine
McHale spare parts, as these are designed and manufactured to the same standard
as the original machine. Spare parts can be obtained from your **McHale** dealer.

Throughout this manual there are links to other relevant sections of the manual, to
guide the reader to additional information to convey the complete message. These
links are in *(grey italic font)*. See the example above i.e. the link to the description of
the serial number plate. When you click on the link in the PDF document, the page will
jump automatically to the linked section. With Adobe Reader, you can go back to the
page on which you clicked the link, by clicking on the 'Previous view' button (or by
holding 'Alt' and pressing the 'left arrow').

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1

Introduction

The **McHale Pro Glide F3100** Front Disc Mower is a completely new product. The design has been developed based on years of extensive research and development in the field of mowers and balers. Given proper care and attention, the machine will provide years of reliable and dependable performance.

Please do not assume that you know how to operate and maintain your machine before reading this manual carefully. In order to prevent misuse, damage and accidents, it is very important that everybody who will operate the machine is a fully trained operator. They must read and fully understand all of the contents of this manual, before operating the machine, paying particular attention to the following:

- Safety instructions
- Functions
- Controls (hydraulic & electrical)

It is highly recommended to get acquainted with any new machinery slowly. Take time to learn and understand all of the features of the machine. Proficiency will increase as more experience is obtained.

If you have any questions in relation to the instructions in the manual, please contact your **McHale** dealer. It is highly recommended that training be sought from your local **McHale** dealer.

The operator is solely responsible for the safe use and maintenance of the machinery, in accordance with this manual. Keep this manual safe and make sure it remains with the machine, at all times.

2

Product information

The machine is protected against many dangers to itself while being operated. However, it is of the utmost importance for the safety of the operator and for others, that the operator pays attention to all warnings and instructions given in this manual. In particular all safety devices, decals, guards and controls must be in place and in fully functioning condition. Never try to clear any malfunction when the tractor is switched on or while the machine is running. Keep the 'Danger Zone' (an area around the machine) free of all persons and animals at all times, while the machine is in operation (See 'Danger Zone'). This manual must be read and fully understood by anyone who will operate the machine.

2.1 Designated use of the machine

The machine is exclusively designed for normal use in agricultural applications. The machine has been designed to mow grass and other forage crops for agricultural harvesting. It also conditions the mown crop through a flailed rotor into loose swaths, which helps to speed up the drying process by 30 - 40%. This designation includes the movement of the machine, between fields by track or road, incidental to the machine's main use. The field or pasture being mown should be even and smooth and free of stones. The manufacturer will not be held responsible for any loss or damage resulting from machine applications other than those specified above. Any other use the machine may be put to is entirely at the owner/operator's risk.

The designated use of the machine includes that:

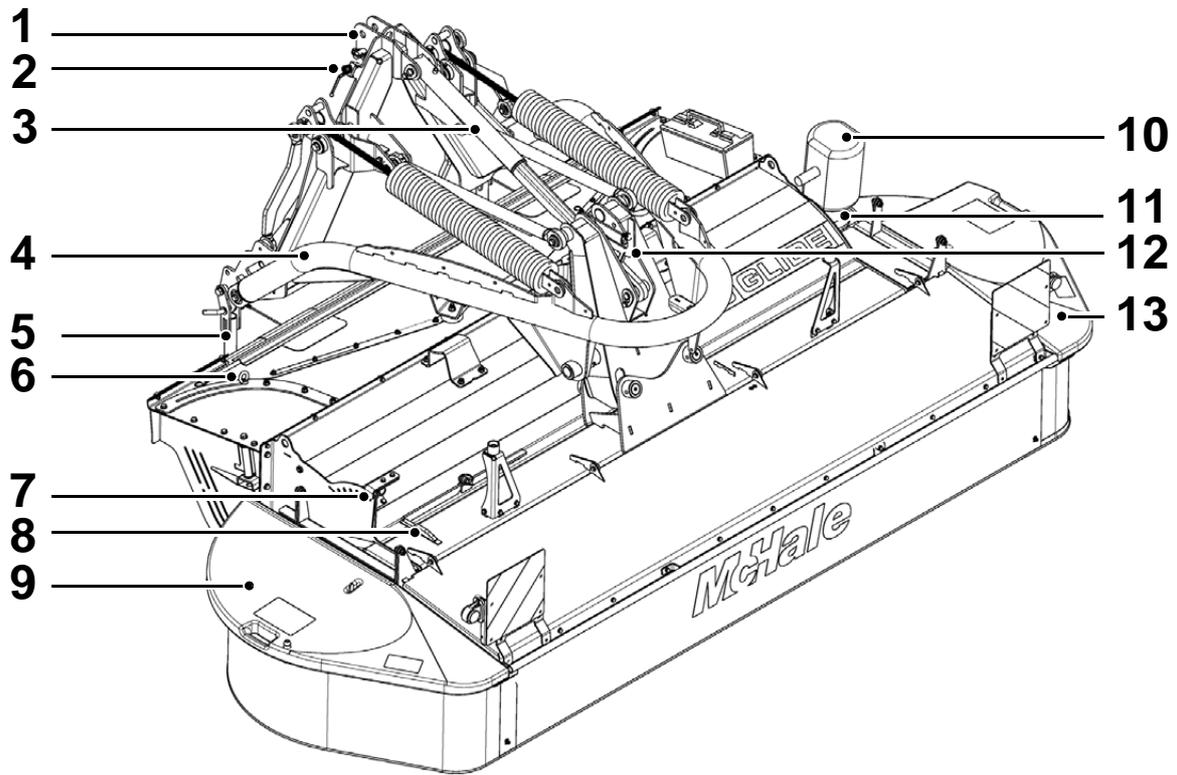
- the operating, maintenance and repair instructions given by the manufacturer will be strictly fulfilled
- exclusively persons who are familiar with it and instructed about the risks are entitled to operate, maintain and/or repair the machine
- the relevant health and safety requirements, that may be in force in the country of use, will be strictly followed
- no other equipment or accessories, other than released by **McHale**, are installed in the machine. The use of any other equipment or accessory is entirely at the owner/operator's risk. In such cases, unauthorised modifications/changes exclude any liability of the manufacturer.



WARNING: Loss of machine validity

By any alteration of safety equipment, the declaration of conformity and the CE sign loses its validity for this machine.

2.2 Front view



No.	Machine function
1	Headstock
2	Transport valve
3	Lift ram
4	Suspension frame
5	Swing down leg stand
6	Swath plate adjustment
7	Conditioner adjustment
8	Blade replacement lever
9	Right hand guard & curtain
10	Input gearbox
11	Conditioner gearbox adjustment
12	Lift ram lock
13	Left hand guard & curtain

2.3 General dimensions & specifications

Units are given in both metric and UK imperial values, with the latter shown in brackets.

Transport length	1.98 m (76")
Transport/working width	2.94 m / 3.64 m (116" / 143")
Transport height	1.45 m (57")
Transport weight	1,250 kg (2,756 lbs)

2.4 Tractor attachment

Tractor capacity	80 kW / 108 HP
Linkage	CAT 2 (front) 3-point linkage
PTO speed	1,000 rpm
Lighting	12 V / 7-pin socket
Hydraulic systems	Single-acting hydraulic supply with float
Minimum pressure	180 bar (2,610 psi)
Minimum flow rate	20 l/min (4.54 gal/min) @ 180 bar (2,610 psi)

2.5 Machine specifications

Cutting width	3.0 m (118")
Swath width	1.3 m - 2.3 m (51" - 91")
Number of cutting discs	7
Total number of blades	14 (2 x 7)
Cutting height	25 mm - 75 mm (1" - 3")
Cutting disc speed	3,200 rpm
Conditioner speed	700 / 1,000 rpm
Operation speed	10 - 12 km/h (6 - 7 mph)
Capacity	3.5 ha/h (8.5 acres/h)

3

General safety

3.1 Be aware of all safety information

Follow all safety precautions and practice safe operation of machinery, at all times.

Warning, caution, note & environment messages:

When reading this manual, pay particular attention when you see the symbols below i.e. warning, caution, note and environment. They will be used at various points in this manual and may also appear on safety decals on the machine. The purpose of these messages is to ensure that the most important information stands out from the rest of the text.



WARNING: This symbol indicates a potentially hazardous situation, that if not avoided could result in machinery damage, personal injury or even death.



CAUTION: This symbol indicates a potentially hazardous situation, that if not avoided could result in machinery damage or personal injury.



NOTE: This symbol is used to identify special instructions or procedures which, if not followed strictly, could result in machinery damage.



ENVIRONMENT: This symbol reminds you to respect the environment in relation to the correct disposal of waste material.

3.2 Follow all safety instructions



Using this manual, read all safety instructions and messages, and be aware of the meanings of all safety decals (*See 'Safety warnings & instructions explained'*). The spare part codes for each decal are also listed, which are available from your **McHale** dealer. If safety decals are damaged or missing due to wear and tear or component replacement, ensure that they are replaced.

As with all machinery, learn all operations and use controls by reading this manual thoroughly. Do not attempt to let anyone operate this machine without being fully instructed.

3.3 Store all items carefully



Store all attachments in a secure and safe manner so as to prevent items from falling. Keep storage areas clear of bystanders and children.

3.4 Protective clothing



Always wear clothing and safety equipment that is fit for the job at hand, never wear loose clothing. In the event of loud noises, wear suitable protective hearing devices. Use of mobile phones or radio/music headphones are not recommended while operating machinery as these impair the operator's attention.

3.5 In case of emergencies



In the event of any accident, emergency equipment should be kept close at hand. A first aid kit and fire extinguisher along with emergency phone numbers should always be available to machine operators.

3.6 Stay clear of rotating elements

Serious injury or death can result from entanglement of clothing or body parts with PTO shafts, drivelines and other rotating and moving components.

Keep all guards in place at all times, only wear close fitting clothing and ensure that the tractor engine has stopped, the key has been removed and that the PTO has stopped turning before carrying out any adjustments, connections or cleaning of PTO driven equipment.

3.7 Operating the machine

In order to avoid serious injury or even death by being pulled into the machine:

- Never attempt to clear a blockage while the machine is running.
- Disengage the PTO, apply handbrake, shut the tractor engine off and remove the key from the ignition.
- Stand well clear of the machine and tractor when the machine is operating.

3.8 In the event of a fire



In the event of a fire, it is the operator's decision to determine the seriousness and hence the solution to the situation. The following is given only as a guideline procedure:

1. Switch off the PTO.
2. Move the tractor and machine away from the flammable material.
3. Disengage the PTO, turn off the tractor and remove the key from the ignition.
4. Remove all hosing and electrical looms from the machine, assuming it is safe to do so.
5. With all connections removed, disengage the machine from the tractor.
6. Drive the tractor away from the machine.
7. Using a suitable fire extinguisher, put out all the fires or call the fire brigade.



WARNING: Fire prevention

It is recommended that the machine be kept reasonably clean and free of build-ups of crop, lubricants, etc. This will help to reduce the risk of fires.

3.9 General safety warnings

It is important to be aware of the potential hazards associated with the operation of farm machinery. Numerous research studies have shown that the majority of machinery-related accidents occur as the result of human negligence, including taking shortcuts to save time, lack of or improper maintenance, ignoring warnings, failing to read the operator's manual, lack of or improper instruction and failure to follow safety rules.

Read and understand this operator manual before using the machine. If any of the instructions appear unclear do not hesitate to contact your **McHale** dealer.

Only competent persons who have read and fully understood this manual are qualified to operate this machine. The owner of this machine is obliged, by law, to ensure that every operator understands all of the functions, controls, working processes and safety warnings, before operating the machine.

Safety devices

- All safety devices such as guards, protection parts and safety controls must be in place and in fully functioning condition. It is forbidden to operate this machine with defective or incomplete safety devices.

Danger Zone

- The 'Danger Zone' is the area all around the mower and tractor of 50 m radius.



NOTE: 'Danger Zone' can vary in size

The operator must be aware of the 'Danger Zone' which can vary in size, depending on operating conditions, i.e. hilly terrain.

- It is the operator's responsibility to ensure that there is no person in the 'Danger Zone' while operating the machine, especially during start up.

Before repair or reassembly

- Safe lifting gear of sufficient capacity must be used for machine assembly. All chains and slings used must be in good condition.

Before operation

- Never operate farm machinery while under the influence of drugs or alcohol. The physiological effects of drugs and alcohol impair performance and can lead to operators taking risks or putting others at risk. This includes over-the-counter cold/flu and allergy medications or prescription drugs that are not recommended to be taken whilst driving a car or operating machinery.
- The operator must ensure that the manufacturer's instructions for attaching and detaching the machine are followed. This includes the 3-point linkage, the hydraulic lines and in particular the lighting system.
- The operator must ensure that all covers are closed and all safety devices are in operating mode.
- The operator must ensure that there is no person in the 'Danger Zone'.
- Always be familiar with the health and safety requirements that may be in force in the country of use.

During operation

- While operating this machine on hilly or sloping ground the operator must take extra precautions, in particular the 'Danger Zone' is increased in such conditions.
- The operator must ensure that there is a minimum of 4 m clearance between the machine and any obstacle above, in particular electrical high voltage lines.
- Particular care must be taken, if the machine is left idle for any extended period, to ensure that all sensors and safety features are working correctly.



WARNING: Do not carry people or animals on the machine

The operator must ensure that no persons or animals are carried on the machine at any time or are hidden under the machine (on the tractor persons are only allowed to sit on the relevant seats).

Before travelling on public roads

- The owner of this machine is obliged by law to ensure that every operator has a valid driving licence and is familiar with the road traffic regulations relating to the country of use.
- Always ensure that the hydraulic supply is switched off.
- Always ensure that the side guards are fully retracted.
- Ensure the machine is in the correct transport position.
- Ensure that additional lighting is provided if any of the tractor lights are hidden or obstructed by the machine.

Performing maintenance

- Maintenance and repair work on the machine should always be carried out in accordance with this manual.
- Maintenance and repair work exceeding the content of this manual should only be carried out by qualified persons or your **McHale** dealer.
- When conducting maintenance work tie long hair behind your head. Do not wear a necktie, necklace, scarf or loose clothing when you work near the machine or moving parts. Rotating machinery parts can entangle loose clothing, long hair or dangling jewellery faster than a victim can react. If these items were to get caught, severe injury could result.
- Before working on this machine or altering any setting, the operator must ensure the following:
 - (a) The tractor has definitely stopped moving
 - (b) The hand brake is applied
 - (c) The engine is shut down
 - (d) The ignition key is removed
 - (e) PTO shaft is removed from PTO stub
 - (f) Hydraulic oil supply is switched off

** It is forbidden to open any safety guards or to carry out any work on the machine, unless the above specified precautions have been carried out.*
- When conducting maintenance work always support the machine properly. Where possible, lower the attachment or implement to the ground before you work on the machine. If it is not possible to lower the machine or attachment to the ground, always securely support the machine or attachment. Do not work under a machine that is solely supported by a jack. Never support the machine with props that may break or crumble under continuous load.
- Never disable any electrical safety circuits, tamper with safety devices or carry out any unauthorised modification to the machine.
- Replace any electrical or hydraulic devices immediately, at the first sign of malfunction or failure, as these components affect the functionality, sequencing and thus safety of operation. Never use a machine where a malfunction exists! Contact your **McHale** dealer to achieve a solution. Always think 'Safety First'!

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- Avoid heating near pressurised fluid lines, as pressurised lines can be accidentally damaged when heat goes beyond the immediate flame area.
- Regular clean down is recommended in order to maintain the machine in a safe and reliable working condition. **McHale** recommend that the machine be blown down with an air line, as opposed to a pressure washer, due to the dangers involved with pressure washing and to protect the overall paint work on the machine. If, despite our advice, a pressure washer is used then take extreme caution and operate from ground level only. Never climb onto any part of the machine, while pressure washing, due to the fact that all metal surfaces become extremely wet and slippery and always ensure that the tractor has been shut down, with the ignition key removed.

During inspection

- If carrying out an inspection during machine operation within the 'Danger Zone' (**highly dangerous and NOT recommended!**), then there should be a fully trained and competent second person operating both the tractor and machine controls. If at any time the second operator loses sight of the inspector, turn off all tractor power immediately! Such inspection should only be carried out if all guards are fully in place, the machine is on level ground and a safe distance is kept from any hazards on the machine. The inspector must remain outside of the 50 m 'Danger Zone'.

Child safety on farms

- All adults working or present on farms are required, by law, to do everything reasonably practical to ensure the safety and health of children and young people on the farm.
- Children must be supervised at all times! Remember, farms are not playgrounds!
- Store farm machinery with safety & stability in mind.
- Always exclude children from potentially dangerous areas (they will often get into apparently inaccessible places). Do not allow them in farm yards on busy days. Contractors should always be made aware of the presence of children.
- Never leave children alone in a tractor cab as they can interfere with controls and many children have been killed falling from the door or rear window of a tractor.
- Children under 16 years of age should never operate power-driven machinery. Keys should be removed from vehicles and controls left in neutral. Lower any implements or loaders to the ground and apply the hand brake.
- Do not allow children to use bales of any description for playing. It is very easy to fall from stacked bales resulting in serious injury, or fall between them leading to suffocation. Make sure there is no evidence of children burrowing under stacked bales. Keep matches in a safe place.
- Children under 16 should never handle chemicals. Always keep them in their correct containers and securely stored out of sight under lock and key.

4

Specific safety warnings

4.1 Hydraulic safety warnings

- The maximum pressure in the hydraulic system of this machine should not exceed 210 bar.
- Always ensure the system is not under pressure before working on the machine. Oil under pressure can penetrate the skin and cause injury. Beware of pipes under accumulator pressure, depressurise lines by unthreading connections extremely slowly.
- Hydraulically actuated devices must be blocked mechanically against movement, before working on the machine.
- If any hoses are removed or replaced ensure they are marked and re-installed to the correct position during re-assembly.
- Check hoses regularly for signs of leakage or wear. If in doubt always replace. The recommended maximum working time of hoses should not exceed 5 years. Only use exact specification **McHale** genuine replacement parts.
- Do not work on hydraulic systems unless you are qualified to do so. This work should only be carried out by qualified persons or your **McHale** dealer.

4.2 Noise level

- The European Regulation 86/188/EEC directs employers and employees to control the noise level at work. The noise level at field work may differ according to the tractor, ground, crops and other environmental conditions.
- In normal conditions, whilst driving the machine, the noise level to the driver's ear does not exceed 70 dB (A) with the rear screen of the tractor cabin open. The common noise level of the machine and the tractor is primarily influenced by the tractor noise (radio is an additional noise source). It is recommended to operate this machine with closed cabin windows.

4.3 Fire precautions

- Be aware that crops are easily inflammable.
- Do not smoke or make use of any open fire next to the machine.
- A functioning fire extinguisher should always be available on the tractor.

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- The machine is to be kept clear of oil, grease, crops, string, plastic or any other flammable material at all times.
- Do not continue to work with overheated parts, cables or pipes, unless you have identified and eliminated the reason for overheating.
- Equipment being refuelled should have its engine turned off before refuelling. Personnel should be instructed on how to properly refuel equipment: do periodic maintenance checks on the tank, pump, hose and nozzle; and abide by safety rules, such as not smoking when around the refuelling area.

4.4 Special safety devices/instructions

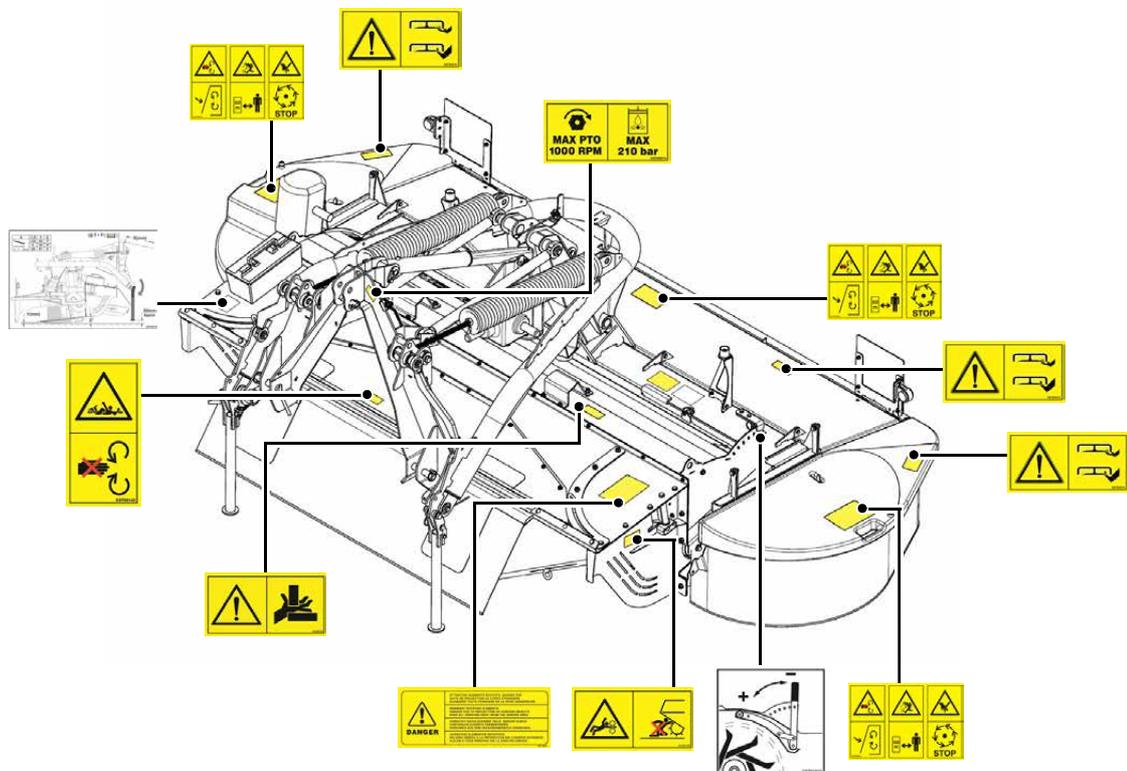
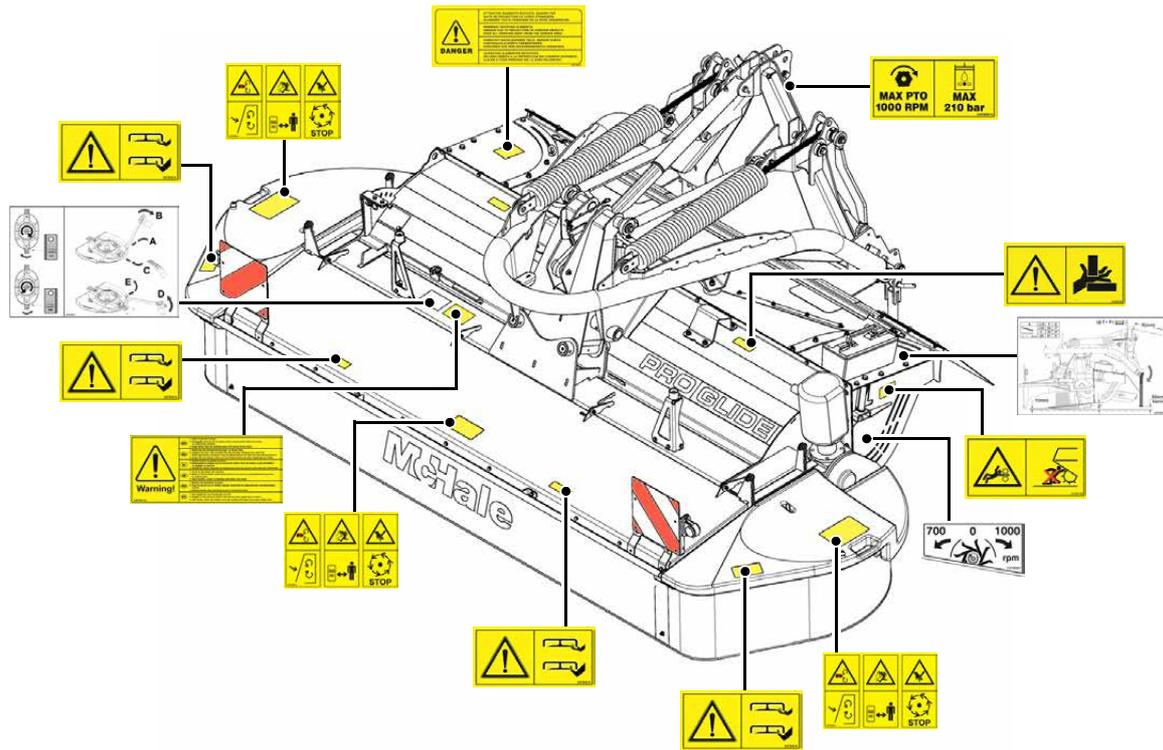
- When maintenance or repair work has to be carried out on the machine, the hand brake must be applied, engine shut down with ignition key removed. The PTO shaft must be removed from the PTO stub, with the hydraulic and electric power supply disconnected. It is forbidden to open any safety guards or carry out any work on the machine unless the specified precautions have been carried out.
- Always use protective clothing and gloves when working with blades or sharp objects.



WARNING: The machine must be completely shut down before carrying out maintenance!

Ensure the engine has been shut down and PTO has been disconnected before carrying out maintenance on the machine. Never attempt to go near the machine until it and the tractor have both come to a complete stop (this is extremely important when checking/replacing blades, where there is a risk of mutilation).

4.5 Safety instruction decal locations



4.6 Safety warnings & instructions explained

Danger areas which cannot be protected by any devices are marked by yellow safety decals. Therefore it has to be ensured that all safety warnings and instructions are understood and followed. If any of the decals are damaged or missing, they are available from your **McHale** dealer. The relevant part numbers are shown in brackets.

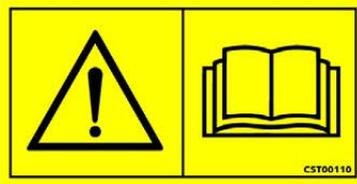
The decals featured on the machine are displayed with their meanings below:

	<p>Danger of rotating parts, foreign objects Keep clear of machine while working (CST00014)</p>
	<p>Keep hands clear of rotating rollers (CTS00017)</p>
	<p>Keep hands out of crush area (CST00019)</p>
	<p>Lifting hook location (CST00032)</p>
	<p>Grease daily (CST00060)</p>

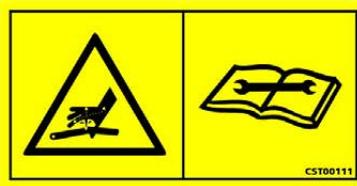
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Keep clear of the conditioner as long as the engine is running and the PTO shaft is connected to the tractor (CST00108)



Read instruction manual before use (CST00110)



Beware of high-pressure hoses, even when the machine is switched off

Also, read and understand manual before working on any part of the hydraulic system (CST00111)



Turn off and remove key from tractor

Read and understand the manual before working on or performing maintenance on the machine (CST00113)



Keep hands out of the crush area between the roller and chassis rail (CST00120)



General warnings (CST00134)



Stay clear of the rotating PTO shaft. Never use the machine if the PTO guarding is missing or damaged. Entanglement in rotating drive line can cause serious injury or death. It is important to ensure that the rotating guard on the driveline rotates freely. Always stop the engine and ensure that driveline has stopped before making connections, adjustments or cleaning out PTO driven equipment. Ensure the safety chains on the PTO cover sleeves are attached to both machine and tractor to prevent them from spinning. (CST00143)

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Float decal. Indicates that the control lever of the spool operating the machine, should be in the float position. (CST00609)



Maximum hydraulic pressure and maximum PTO speed. This machine must not be connected to hydraulic systems with pressure higher than 210 bar (CST00814)



Keep clear of high speed cutters. Close all covers and guards and keep out of danger zone. (CST00816)



Close protective covers before operating the machine (CST00817)



Danger of projectiles. Keep clear of the 'Danger Zone'. Minimum of 50 m radius. (CST00817)



Ensure the machine has stopped rotating completely before carrying out any maintenance (CST00817)

4.7 Description of the serial number plate

Tel: 353 (0) 94-9520300 Fax: 353 (0) 94-9520356 Email: sales@mchale.net Web: www.mchale.net		McHale Castlebar Road, Ballinrobe, Co. Mayo, F31 K138, Ireland.	
CE	Type / Version Typ / Tipo	Pro Glide F3100	(a)
	Net weight / Poids net Leergewicht / Peso neto	1250 (kg)	(b)
	Year of manufacture / Année de fabrication Herstellungsjahr / Año de fabricación	2016	(c)
	Serial number / Numéro de série Seriennummer / Número de serie	1002050	(d)

The following is a description of the serial plate meanings:

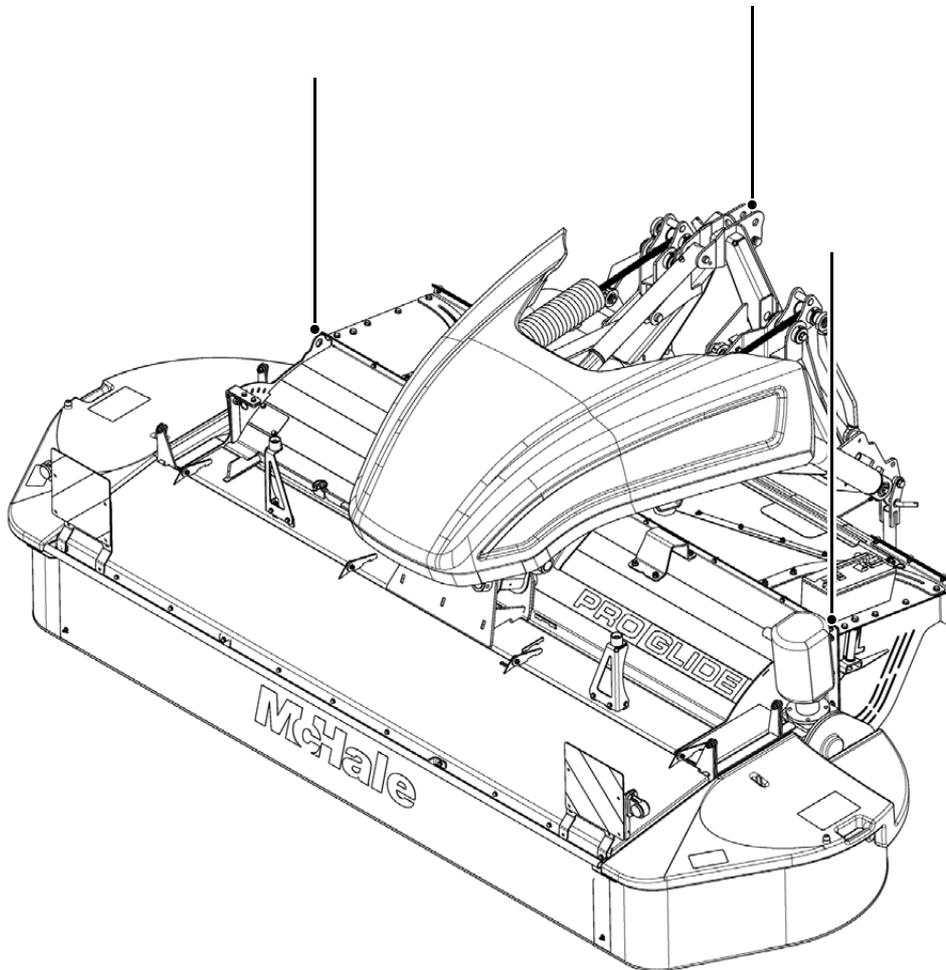
- a. Model name/number of the machine
- b. Net weight of the machine
- c. Year of manufacture of the machine
- d. Serial number of the machine

4.8 Machine lifting guidelines



WARNING: Machine lifting

- Only use chains or strapping that are rated for a minimum load of 0.75 tonnes (750 kg) per chain or strap when using the three lift eye locations on the chassis, shown below
- The crane or lifting device must be capable of lifting a minimum load of two tonnes (2,000 kg)
- Never go under a suspended machine or attempt to try and stop it if moving erratically, death or serious injury may result
- Always be observant of people and objects around the suspended machine and do not allow the machine to impact heavily on the ground after suspension or movement



5

Tractor requirements & preparation

5.1 Tractor requirements

The minimum recommended size of tractor for operating the machine comfortably depends mainly on the forage being cut. On flat ground **McHale** recommends a tractor size of approximately 80 kW. On hilly ground or difficult conditions, an additional 10 to 15 kW is advisable.



NOTE: Use good quality oil

Ensure that the tractor has clean, good quality, hydraulic/universal oil to avoid problems later on. Also, the hydraulic filters on the tractor should be changed regularly, according to the manufacturer's service instructions. Avoid dirt getting into the hydraulic couplings.

The following items on the tractor are required for attachment of the machine to the tractor:

1. CAT 2 (front) 3-point linkage
2. Single-acting hydraulic function with float (minimum 20 l/min @ 180 bar)
3. 12 V / 7-pin socket for lighting
4. 1 3/8", 6-spline PTO shaft (set to a speed of 1,000 rpm)

* *Depending on country of use*

5.2 Attaching to linkage

Line up the tractor with the front mower and drive forward slowly until the lift arms are aligned with the link-arm slots on the mower headstock. Then, raise the lift arms until they are in line with the locating holes. Attach the lift arms securely to the mower, using CAT 2 pins, followed by the top link. Then, connect the hydraulic hose to a single-acting hydraulic supply (with float) on the tractor. The PTO shaft may have to be altered the first time it is fitted to a specific tractor. Before connecting the PTO shaft to the tractor, raise the mower so that the PTO stubs of both the machine and the tractor are horizontal to each other. First, fit the PTO shaft to the machine and then check if the PTO can be connected to tractor stub. If not, then the PTO shaft is too long and must be altered.



WARNING: Measure distance between PTO stub shafts first

Never connect a PTO shaft on a new machine/tractor combination without first measuring the horizontal (shortest) distance between PTO stub shafts, otherwise severe damage can occur.

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The mower should then be adjusted as follows.

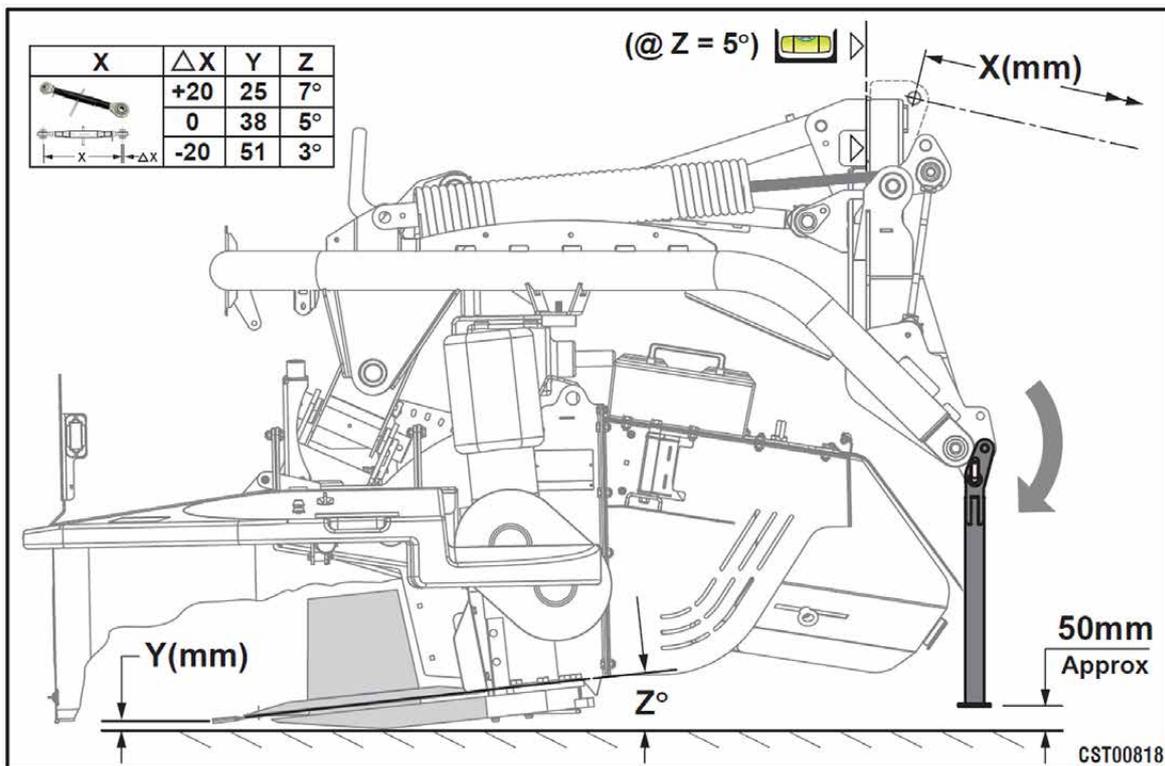


Open transport valve



Release lift-ram lock

Open the transport valve and raise the front linkage to the maximum and release the lift-ram lock using the lever. Then, lower the mower gently and swing down the leg stands. Adjust the top link and lift arms until the front of the main frame is vertical, with leg stands approximately 50 mm off the ground. The lift arms can now be set in that position and the lift ram is then used to raise and lower the mower while operating.



All adjustment regarding cutting height (Y) is achieved by varying the top link (X) on top of the mower frame, which alters the angle of inclination (Z). When the frame is level vertically then $Z = 5^\circ$. Increasing dimension (X) increases the slope or angle (Z) of the cutting discs, which lowers the cutting height (Y) and vice versa.

When the mower frame is set level vertically with the leg stands set, as shown, the cutter bar angle is $Z = 5^\circ$, giving an approximate cutting height of 38 mm. Lengthening the top link by 20 mm will reduce the cutting height to 25 mm, while shortening the top link by 20 mm will increase the cutting height to 51 mm.

5.3 Attaching the machine to a 1,000 rpm PTO

All mechanical functions are related to the correct PTO speed. Follow the instructions as supplied with the PTO unit for correct assembling of the PTO shaft to the tractor (See 'PTO Shaft adjustment & maintenance').



CAUTION: Ensure safety chains are attached to machine and tractor

Ensure the safety chains on the PTO cover sleeves are attached to both machine and tractor to prevent them from spinning.



CAUTION: Standard PTO of 1,000 rpm

The machine should be driven with a standard PTO speed of 1,000 rpm. The maximum PTO speed allowed = 1,000 rpm. Do not use any PTO speed other than specified above!



WARNING: Measure distance between PTO stub shafts first

Never connect a PTO shaft on a new machine/tractor combination without first measuring the horizontal (shortest) distance between PTO stub shafts, otherwise severe damage can occur.

5.4 Lighting system

The 7-pin plug of the lighting system on the machine must be connected to the 7-pin socket on the tractor.



NOTE: Check lighting system before travelling on the road

Before travelling on a public road, the operator must ensure that the complete (tractor and machine) lighting system is in a fully functioning condition.

5.5 Attaching hydraulic hosing to the tractor



WARNING: Turn off tractor and remove key before connecting hydraulic hosing

When connecting hydraulic hosing to the tractor, ensure that the tractor engine is turned off and that the ignition key is removed. Ensure that all hydraulic connections are correctly tightened.

There is one hydraulic hose that must be connected to the tractor, as follows:

1. Single-acting hydraulic function with float (minimum 20 l/min @ 180 bar)
2. 12 V / 7-pin lighting socket

6

Machine requirements & preparation

6.1 Blade replacement



WARNING: Ensure the tractor is shut down

Ensure that the tractor engine has been shut down, the key removed and the brakes applied before carrying out the following procedure.



CAUTION: Wear proper safety equipment & follow all instructions

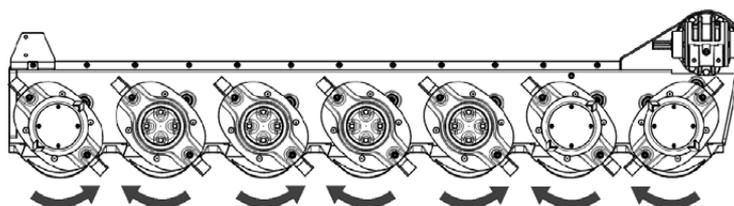
Always wear protective clothing and gloves, beware of sharp edges!

Blade adjustment should be carried out in the following way:

1. Lower the mower to the ground and make sure it is secure.
2. Shut down the tractor, remove the key and apply the parking brake.
3. Ensure rotors have come to a complete stop before raising all access panels and curtains.

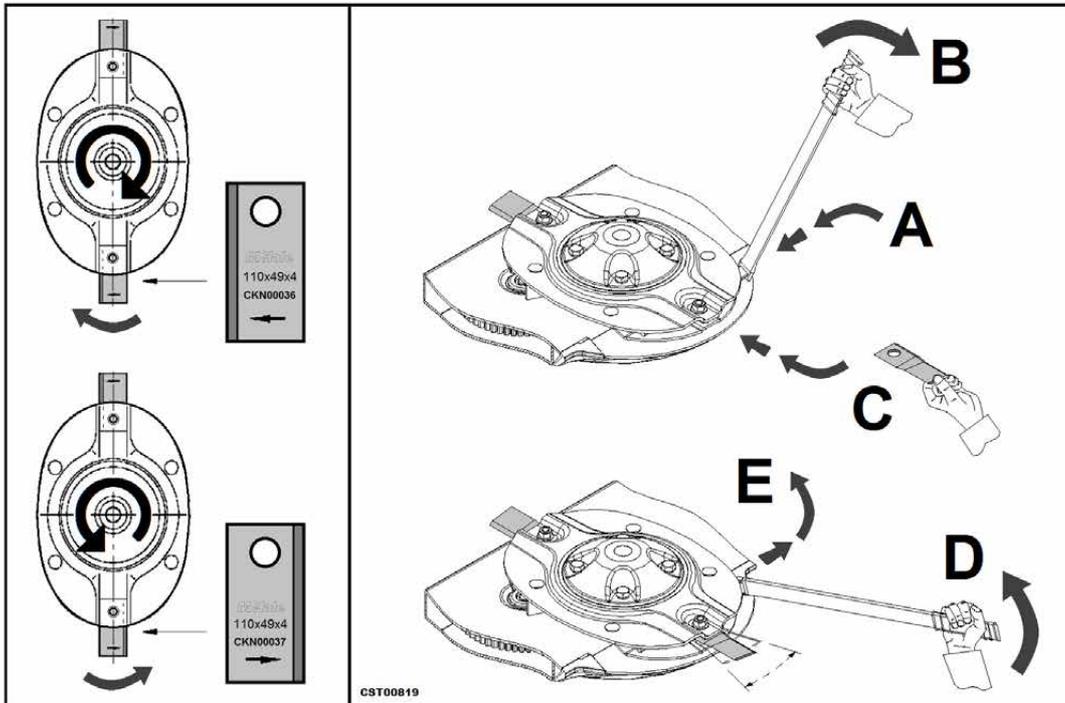


Installation lever



McHale Pro Glide F3100 Front Disc Mower

Remove the linch pin from the blade installation lever in its storage position. Then using the lever, follow steps A through E, as shown. Ensure the correct RH blade (CKN00036) or LH blade (CKN00037) is used to suit direction of rotation, for each cutting disc.



Rotate each disc being worked on so that the blades are centred and facing forward.

- A. Then slide the installation lever in fully from the right-hand side, just behind the blade.
- B. Push down fully on the lever, until the old worn blade can be removed. If the opposite side of the blade is good, then simply invert it so that the new sharp cutting edge is exposed.
- C. Otherwise, install a new replacement blade, whilst continuing to hold the lever down.
- D. Allow the lever to return back up to neutral and check the blade to ensure it is free to rotate, but is securely locked on the disc stub.
- E. Remove the installation lever from the right-hand side and continue onto the next one until all 14 blades have been inverted or replaced.

On completion, return the installation lever to its storage position and secure with the linch pin, so it cannot become loose.



WARNING: Replace damaged or missing blades immediately!

Replace damaged or missing blades immediately; ideally as a complete set to prevent dangerous imbalanced rotation. Badly bent blades spinning rapidly can cause irreparable damage to the mower bed.

6.2 Gearbox oil

There are several gearboxes on the machine.



WARNING: Ensure the tractor is shut down before changing oil

Ensure that the tractor engine has been shut down, the key has been removed from the ignition and the brakes have been applied before changing oil.



NOTE: Oil must be drained & filled after the first 50 hours of use

After the first 50 hours of use, the gearbox oil must be completely drained and filled with SAE 80W/90 grade oil.

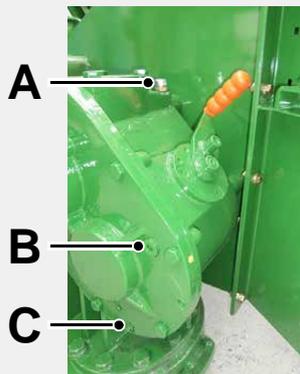


ENVIRONMENT: Safe disposal of oil

Respect the environment! Never spill oil or grease on the ground, never pour them down the drain and never discard them where they can pollute the environment. Always take waste materials to a recycling centre.

Gearbox	Capacity	A (A/F Hex)	B (A/F Hex key)	C (A/F Hex key)
PTO right-angle	1 L	8 mm key	Oil depth is 70 mm	8 mm
Input gearbox	1 L	19 mm wrench	8 mm	8 mm
Conditioner	2.5 L	19 mm wrench	8 mm	8 mm
Mower bar	6 L	10 mm key	Check oil depth is 6 mm +/- 1 with the mower bar set level in all directions	

To drain and add oil to the conditioner gearbox, carry out the following procedure:



1. Remove the drain plug (C) and drain oil into a suitable container. This is best carried out while the oil is still warm, i.e. soon after use. Replace the drain plug (C), tighten and dispose of waste oil responsibly.
2. Remove the breather (A) and plug (B). Add approx. 2.5 L of SAE 80W/90 grade oil or until oil begins to flow from the sight-level hole (B) when the correct quantity of oil is added. (After this replace the oil once per season or once per 250 hours, whichever comes first)
3. Replace the level-plug (B) and breather (A) and tighten securely.

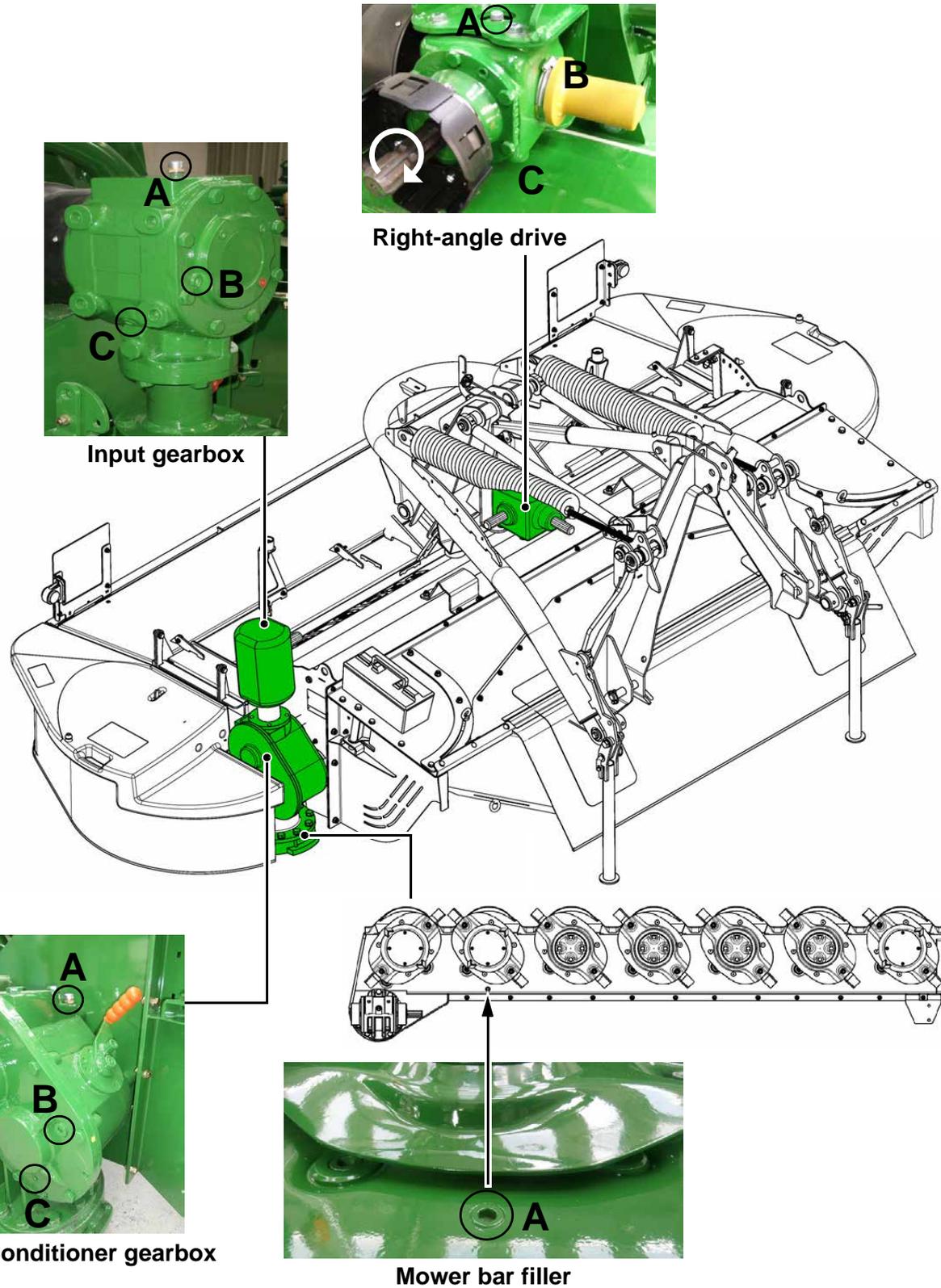
The procedure above is similar for the others, except for the mower bar, which is simply dipped to measure (6 mm) oil depth from the bottom when level (after it is allowed to settle for at least 10 mins). For the PTO right angle drive it is 70 mm +/- 5 oil depth or 95 mm, if measured from the top down using a dipstick.

6.2.1 Gearbox locations



NOTE: PTO should drive the right-angle drive clockwise

The front PTO from the tractor should drive the input shaft of the PTO right-angle drive in a clockwise direction. If not, this gearbox can be inverted for tractors with front PTO's that are driven anti-clockwise.



6.3 Leg stands

The leg stands are to be used every time the machine is disconnected from the tractor.

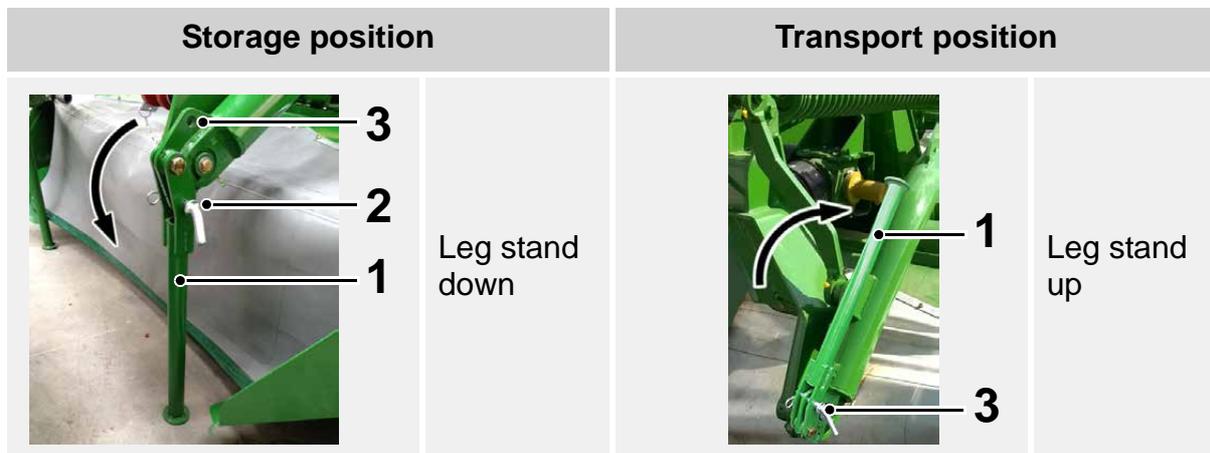
Before disconnecting from the tractor, lower both leg stands by relocating pins as shown.



CAUTION: All stands must be rested on a solid footing

The machine and stands must be rested on a solid footing, on level ground and pinned securely before disconnecting from the tractor.

Ensure that the leg stand lock pins are properly secured in the lower holes (2) provided to prevent the stands (1) from collapse, in the storage position. While using the machine, ensure that the stands (1) are fully elevated against the main frame with the lock pins secured in the upper hole positions (3).



6.4 PTO Shaft adjustment & maintenance



CAUTION: Ensure the tractor is shut down

Ensure that the tractor engine has been shut down, the key removed and the brakes applied before carrying out the following procedure.



WARNING: Measure distance between PTO stub shafts first

Never connect a PTO shaft on a new machine/tractor combination without first measuring the horizontal (shortest) distance between PTO stub shafts, otherwise severe damage can occur.

The length of the PTO shaft is suitable for all known tractor conditions. However the PTO shaft must be checked/alterd to suit the tractor combination it is being fitted to. Before connecting the PTO shaft to the tractor, raise the mower so that the PTO stubs of both the machine and the tractor are horizontal to each other. First, fit the PTO shaft to the machine and then check if the PTO can be connected to tractor stub. If not, then the PTO shaft is too long and must be altered. After measuring carefully, the PTO shaft

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halves should be cut equally so that the PTO shaft assembly is kept as long as possible, whilst just allowing enough room for its removal, when in a horizontal position. This will ensure that a maximum overlap (ideally 200 mm minimum) is maintained, when extended, as the machine is lowered fully. The angle of operation should never exceed 25° misalignment, otherwise permanent damage will result.



CAUTION: Ensure safety chains are attached to machine and tractor

Ensure the safety chains on the PTO cover sleeves are attached to both machine and tractor to prevent them from spinning.

7

Road traffic safety & operation

7.1 Before travelling on any public roadway



WARNING: Complete a full inspection before travelling on the road

Ensure that a full inspection is completed every time before attempting to go on to a public roadway, always think and practice safety!

The following should be inspected every time, before travelling on a public road:

- The PTO shaft must be fixed safely to the tractor PTO stub shaft.
- The lighting system of the machine must be connected to the tractor and must be in a fully functioning condition. Ensure that additional lighting is provided if any of the tractor lights are hidden or obstructed by the machine.
- With the transport valve open, raise the front linkage to the maximum and reset the lift-ram lock using the lever.
- The hydraulic supply must be turned off and protected from accidental activation. To do this close the transport lock on the lift-ram hose.
- The leg stands must be raised and secured in the transport position, using the pins provided.
- The machine must be safely cleared of all loose forage. To carry this out, firstly turn off the tractor and fully isolate the machine by disconnecting all of the connections to the tractor unit.
- The side guards must be rotated upwards to reduce width and secured in the transport position as shown.
- Ensure that all the national road traffic regulations relating to the country are fulfilled i.e. the use of safety chains may be mandatory in certain countries.
- Ensure the safety chains on the PTO cover sleeves are attached to both machine and tractor to prevent them from spinning.



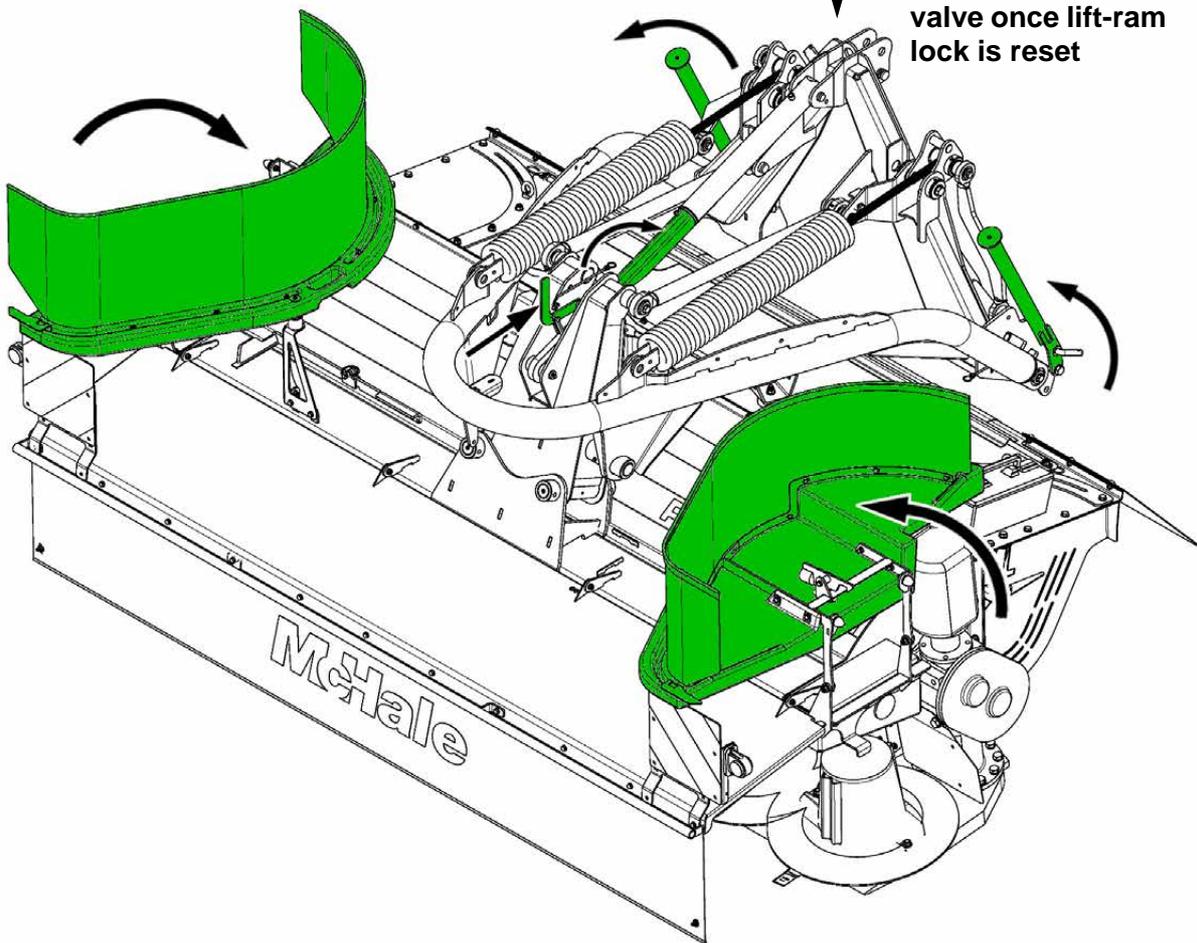
WARNING: Visibility of operator

If the dimension from the operator edge of the steering wheel to the leading edge of the front mower is 3.5 m or greater, then an assistant will be necessary to give directions at road junctions and crossroads.

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Close transport valve once lift-ram lock is reset



Road transport position
(with side guards and leg stands secured upright and transport valve closed)

8

Field operation & machine adjustments

8.1 Mower operation

Detailed instructions on how to operate the machine are outlined in the following pages. These should be used along with learning the precise functionality of each adjustment.

Line up the tractor with the front mower and drive forward slowly until the lift arms are aligned with the link-arm slots on the mower headstock. Then, raise the lift arms until they are in line with the locating holes. Attach the lift arms securely to the mower, using CAT 2 pins, followed by the top link. Then, connect the hydraulic hose to a single-acting hydraulic supply (with float) on the tractor. The PTO shaft may have to be altered the first time it is fitted to a specific tractor. Before connecting the PTO shaft to the tractor, raise the mower so that the PTO stubs of both the machine and the tractor are horizontal to each other. First, fit the PTO shaft to the machine and then check if the PTO can be connected to tractor stub. If not, then the PTO shaft is too long and must be altered.



WARNING: Measure distance between PTO stub shafts first

Never connect a PTO shaft on a new machine/tractor combination without first measuring the horizontal (shortest) distance between PTO stub shafts, otherwise severe damage can occur.

The mower should then be adjusted as follows.



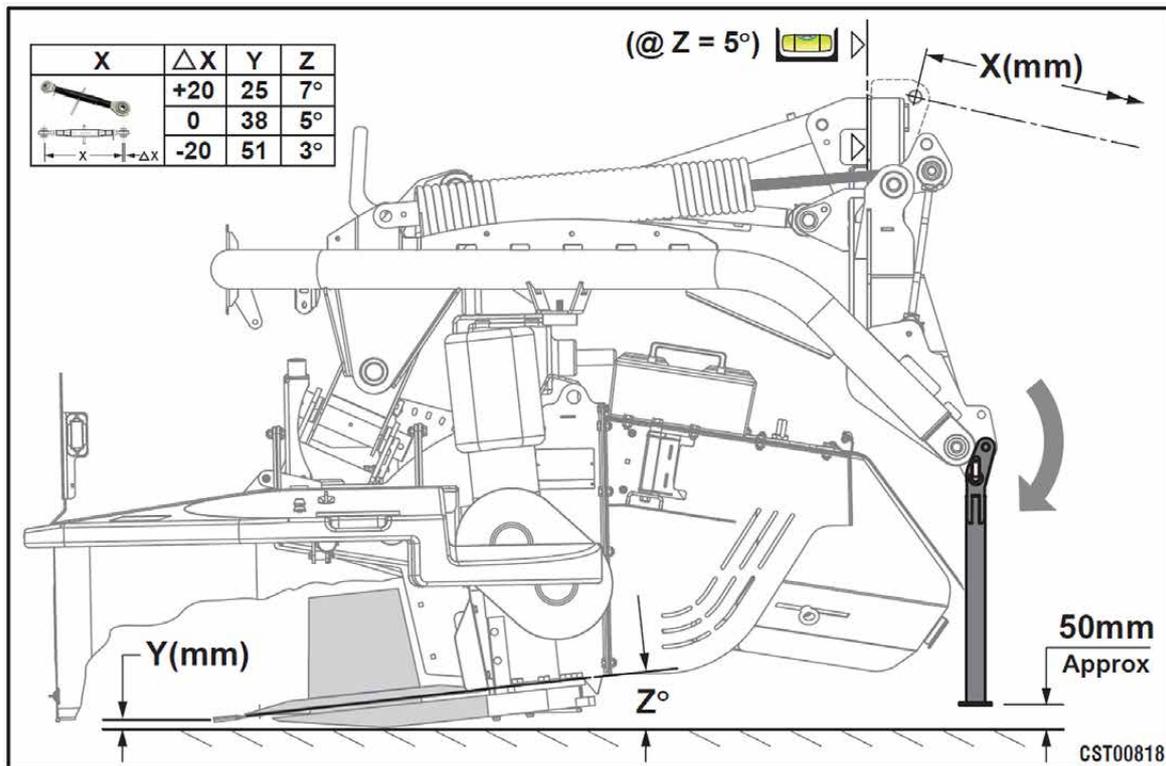
Open transport valve



Release lift-ram lock

Open the transport valve and raise the front linkage to the maximum and release the lift-ram lock using the lever. Then, lower the mower gently and swing down the leg stands. Adjust the top link and lift arms until the front of the main frame is vertical, with leg stands approximately 50 mm off the ground. The lift arms can now be set in that position and the lift ram is then used to raise and lower the mower while operating.

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All adjustment regarding cutting height (Y) is achieved by varying the top link (X) on top of the mower frame, which alters the angle of inclination (Z). When the frame is level vertically then $Z = 5^\circ$. Increasing dimension (X) increases the slope or angle (Z) of the cutting discs, which lowers the cutting height (Y) and vice versa.

When the mower frame is set level vertically with the leg stands set, as shown, the cutter bar angle is $Z = 5^\circ$, giving an approximate cutting height of 38 mm. Lengthening the top link by 20 mm will reduce the cutting height to 25 mm, while shortening the top link by 20 mm will increase the cutting height to 51 mm.

The leg stands must be returned to the raised position and pinned securely, either for working or transportation. Ensure all curtains and side guards are lowered fully when in the working position. The mower is then lowered using lift-ram spool and set in a float position. Then engage PTO at a speed of 1,000 rpm and drive forward at approximately 10 km/h, checking swath width and cutting height. If adjustments are necessary, then shut down PTO and tractor and ensure all motion has ceased before approaching the mower.



WARNING: Check before starting or moving the machine

Before starting or moving the machine, ensure there is nobody in the vicinity, especially children, that may be out of view.



ENVIRONMENT: Begin mowing at the centre of the field

Where possible begin mowing from the centre of the field and work from the inside out. This gives wildlife a chance to escape as they try to remain under cover. Using a conventional approach means they get trapped in the centre!

McHale Pro Glide F3100 Front Disc Mower

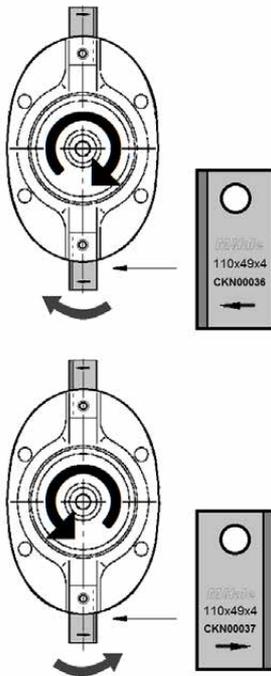
When the mower is being removed from the tractor, lower the leg stands and secure them in the storage position. Raise the front linkage to the maximum and engage the lift-ram lock by releasing the lever. Ensure the mower bed is lowered to the ground for stability. Release all hydraulic pressure, close the transport valve and disconnect the hydraulic hose from the tractor. Finally, disconnect the PTO shaft followed by the top-link and lift arms and move away from the mower.

8.2 Blade adjustment

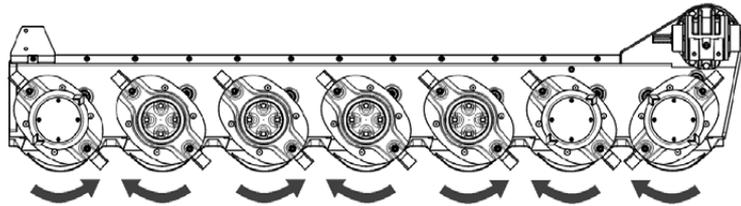


CAUTION: Wear proper safety equipment & follow all instructions

Always wear protective clothing and gloves, beware of sharp edges!



The blades come in both right-hand (RH) and left-hand (LH) and must be fitted correctly to each disc depending on the direction of rotation. Typically the blades have two chamfered cutting edges and once the cutting edge becomes dull, they can be simply inverted, exposing the second sharp cutting edge. If a shudder is felt in the mower, then there is an imbalance which is usually caused by a broken or missing blade. If even a slight shudder is noticed, then work should stop immediately to investigate the cause! After the tractor has been shut down, do not leave the tractor cab until the mower discs have come to a complete stop.

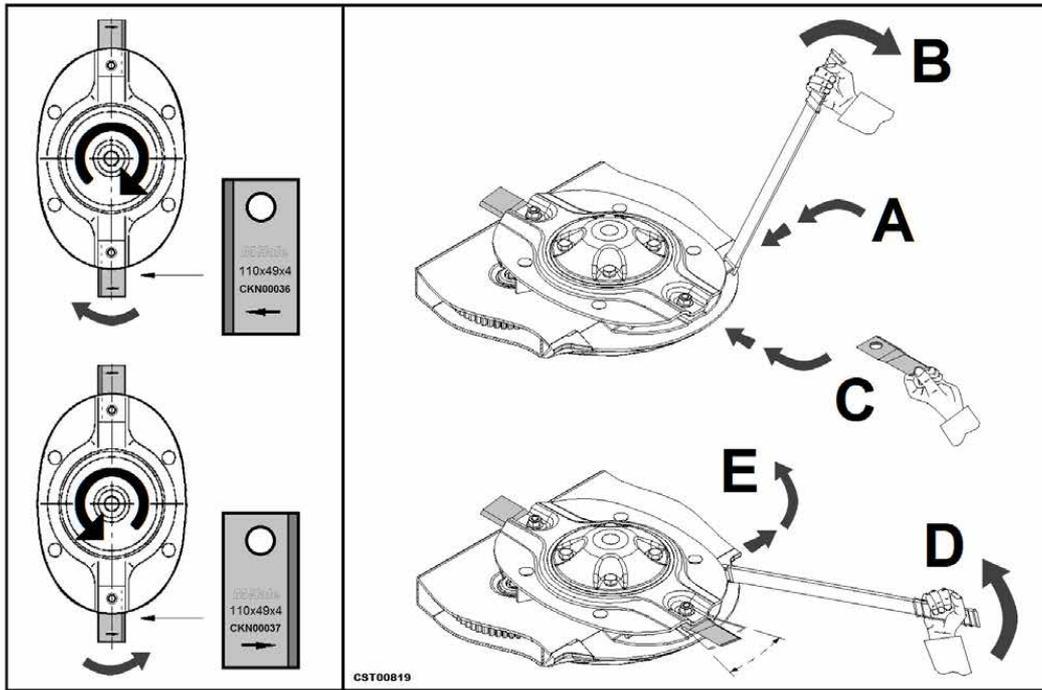


Remove the linch pin from the blade installation lever in its storage position. Then using the lever, follow steps A through E, as shown. Ensure the correct RH blade (CKN00036) or LH blade (CKN00037) is used to suit direction of rotation, for each cutting disc. (See 'Blade replacement')



WARNING: Replace damaged or missing blades immediately!

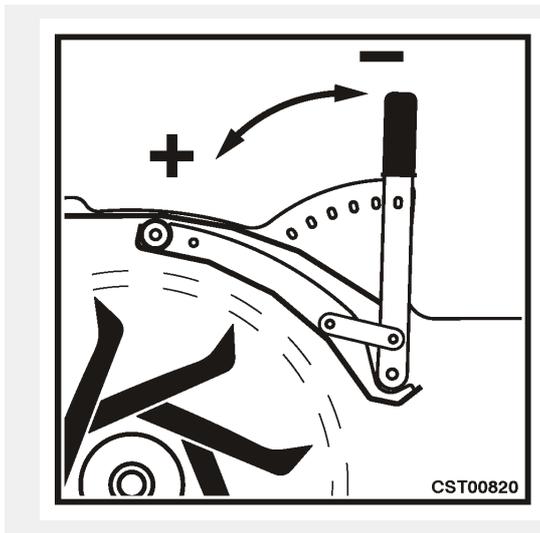
Replace damaged or missing blades immediately; ideally as a complete set to prevent dangerous imbalanced rotation. Badly bent blades spinning rapidly can cause irreparable damage to the mower bed.



8.3 Conditioner adjustment

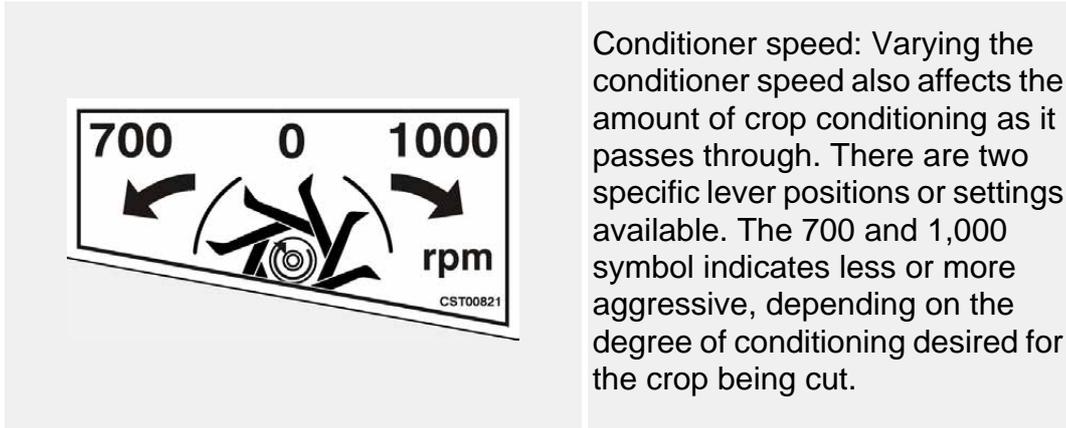


CAUTION: Ensure the tractor is shut down
 Ensure that the tractor engine has been shut down, the key removed and the brakes applied before carrying out the following procedure.



Conditioner plate: Varying the distance between the rotor flails and the conditioning plate affects the amount of crop conditioning as it passes through the gap. There are six specific lever positions or settings available. The - and + symbol indicates less or more aggressive, depending on the degree of conditioning desired for the crop being cut.

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To change the conditioner speed, lift the curtain and side cover beside the gearbox to expose the LH drum as the drum must be rotated, a little, to allow the gears to re-mesh as the lever is moved from one speed to the other.

8.4 Swath width adjustment



CAUTION: Ensure the tractor is shut down

Ensure that the tractor engine has been shut down, the key removed and the brakes applied before carrying out the following procedure.

The swath width can be adjusted between 1.3 and 2.3 m wide. The adjustment is achieved by loosening the eye bolts holding the swath plates on each side and adjusting them in or out in the slots provided. The position within the slots should be balanced each side to keep the swath central.

Once the desired setting is reached, then the eye bolts should be tightened securely using a short lever.



LH swath plate



Swath plates



RH swath plate



CAUTION: Ensure the mower bed is stable before disconnection

Before disconnecting the mower from the tractor, always ensure the mower bed is first lowered to the ground for stability.

9

Machine maintenance

To maintain the machine in good working order it is necessary to carry out preventative maintenance regularly. The following section gives details of how this may be carried out and how often it will be required.

Replace any electrical or hydraulic devices immediately, at the first sign of malfunction or failure, as these components affect the functionality, sequencing and thus safety of operation. Never use a machine where a malfunction exists! Contact your **McHale** dealer to achieve a solution. Always think 'Safety First'!



WARNING: Wear proper safety equipment & follow all instructions

Ensure to wear proper safety equipment at all times when working with the machine, such as gloves, eye protection, etc. and follow all safety decals and instructions.



WARNING: Inspections in the 'Danger Zone' during machine operation require a second trained operator at the controls

McHale recommend that nobody is ever in the 'Danger Zone' at any time during machine operation, but in the event of carrying out inspections (contrary to our safety recommendations!) when the machine is in operation, there must always be a second operator at the tractor controls (who is fully competent in the operation of both the tractor and machine), in case an emergency stop action is required.

9.1 Maintenance intervals

The following intervals should be adhered to, in order to ensure a long and efficient life for the machine and maximum safety of personnel. They assume constant working during the harvesting season.

First 5 working hours

- Check all nuts and bolts for tightness and tighten, if necessary
- Check sufficient oil level in the gearbox(s)

Every day

- Check all guards and safety devices
- Check for any oil leaks and damaged pipes

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- Grease PTO shaft and all other grease points
- Check cutting blades

Every week

- Grease PTO shaft and all other grease points
- Grease ram pivots

Every month

- Grease rotor bearings
- Check sufficient oil level in the gearbox(s)

Every year

- Clean and lubricate all moving parts
- Drain and change gearbox oil (*See 'Gearbox oil'*)

At the end of the season the machine should be washed and cleaned.

Carefully clean all machine sections, inside and out. Dirt and foreign objects are likely to draw moisture and cause rusting of steel components. **McHale** recommend that the machine be blown down with an air line, as opposed to a pressure washer, due to the dangers involved with pressure washing and to protect the overall paint work on the machine. If, despite our advice, a pressure washer is used then take extreme caution and operate from ground level only. Do not point pressurized water at or near electrical components, pivots points, valves or bearings. Never climb onto any part of the machine, while pressure washing, due to the fact that all metal surfaces become extremely wet and slippery and always ensure that the tractor has been shut down, with the ignition key removed.

Any damaged paintwork should be touched up. Any maintenance or repairs should be carried out at this stage. The exposed hydraulic cylinder rod should be greased. The cutting device area as well as the conditioner should be cleaned and lubricated. (*See 'Storage'*)



ENVIRONMENT: Health and safety rules for the environment

It is vitally important to observe health and safety rules in order to avoid unnecessary environmental damage or danger to anybody near the machine. This especially applies to the responsible disposal of oil. Never spill pollutants (oil, grease, filters, etc.) on the ground, never pour them down the drain and never discard them where they can pollute the environment. Always take waste materials to a recycling centre.

9.2 Tightening torque values

It is important that the correct torques for fasteners are adhered to. Below are tables of recommended torques for these. These are to be used unless torques are otherwise specified. These values are for general use only. Check tightness of all fasteners periodically. Torque values are in Nm (Newton metres).

Nuts and bolts		Black, Phosphated or Galvanized		
Grade marking		8.8	10.9	12.9
	Dimensions	Metric standard thread		
Hex. bolts	M4	2.7	3.8	4.6
DIN 931	M5	5.5	8	9.5
DIN 933	M6	10	14	16
	M8	23	33	40
Socket head	M10	45	63	75
Cap screws	M12	78	110	130
DIN 912	M14	122	175	210
	M16	195	270	325
Hex. nuts	M18	260	370	440
DIN 934	M20	370	525	630
	M22	510	720	870
	M24	640	900	1,080
	M27	980	1,400	1,650
	M30	1,260	1,800	2,160
	Dimensions	Metric fine thread		
Hex. bolts	M8 x 1	25	35	42
DIN 960	M10 x 1.25	48	67	80
DIN 961	M12 x 1.25	88	125	150
	M12 x 1.5	82	113	140
Hex. nuts	M14 x 1.5	135	190	225
DIN 934	M16 x 1.5	210	290	345
	M18 x 1.5	300	415	505
	M20 x 1.5	415	585	700
	M22 x 1.5	560	785	945
	M24 x 2	720	1,000	1,200
	M27 x 2	1,050	1,500	1,800
	M30 x 2	1,450	2,050	2,500
NOTE:	For nuts and bolts from different materials and/or surface finishes a torque value must be used that is lower than the value stated above.			

10

Storage

10.1 End of season

- Carefully clean all machine sections, inside and out. Dirt and foreign objects are likely to draw moisture and cause rusting of steel components. **McHale** recommend that the machine be blown down with an air line, as opposed to a pressure washer, due to the dangers involved with pressure washing and to protect the overall paint work on the machine. If, despite our advice, a pressure washer is used then take extreme caution and operate from ground level only. Do not point pressurized water at or near electrical components, pivots points, valves or bearings. Never climb onto any part of the machine, while pressure washing, due to the fact that all metal surfaces become extremely wet and slippery and always ensure that the tractor has been shut down, with the ignition key removed.
- Grease the discs/blades & conditioner tines to prevent rusting, use extreme caution when carrying out this operation, always wear protective clothing and gloves!
- Lubricate all pivot points and apply a thin layer of grease to all adjustment bolt threads and exposed ram rods.
- Any components from which paint has become worn should be touched up or coated with grease to prevent rusting.
- Remove all dirt from the disc mower bed and blow dry using compressed air and apply grease to prevent rusting.
- Apply grease to all bearings, ram-pivots, and PTO shaft.

10.2 Start of season

- Fully review this operators instruction manual.
- Check and fill gearbox oil level, if necessary. (*See 'Gearbox oil'*)
- Lubricate all pivot points.
- Tighten all bolts, nuts and setscrews. (*See 'Tightening torque values'*)
- Inspect and modify, if necessary, all machine adjustments. (*See 'Field operation & machine adjustments'*)
- Remove the grease from the discs/blades & conditioner tines, use extreme caution when carrying out this operation, always wear protective gloves and clothing!
- Replace any blunt or damaged blades.

11

Certification & Warranty

11.1 Declaration of Conformity

The Declaration of Conformity is provided by **McHale**. It certifies the new machine under all the relevant provisions of the EC machinery directive and the national laws and regulations adopting this directive.

The declaration gives a description of the machine and its function, along with the model and serial number details. *(See 'Declaration of Conformity')*

By any alteration of the machine, the Declaration of Conformity, as well as the CE sign on the machine, loses its validity.

11.2 PDI form

The PDI (pre-delivery inspection) form is filled out on the commissioning of every new machine, by the **McHale** dealer. The following checks are completed and signed off:

- All parts and accessories are provided to the customer, with the machine
- Machine is reassembled correctly
- Hydraulics, electrics and lighting are working
- New owner has been instructed on how to operate & maintain the machine

The PDI is included in this operator manual. *(See 'Pre-delivery inspection form')*

11.3 Change of ownership pre-checks

The PDI (pre-delivery inspection) form that is filled out on the commissioning of every new machine, should also be used during the transfer of ownership of a **McHale** machine. The same check list must be completed and any areas requiring attention addressed before the re-sale of the machine should occur. Pay particular attention to all safety related areas. Take time to familiarise the new owner with machine operation, maintenance and all its safety features.

11.4 Limited Warranty

Limited Warranty conditions are supplied with each **McHale** product. They cover the terms & conditions associated with abnormal failure under normal working conditions. *(See 'McHale Limited Warranty')*

Declaration of Conformity



EC MACHINERY DIRECTIVE: 2006/42/EC DECLARATION OF CONFORMITY

We hereby certify that the machinery stipulated below complies with all the relevant provisions of the EC Machinery Directive and the National Laws and Regulations adopting this Directive.
Modifications to the machine, without prior approval from the undersigned, will render this declaration null and void.

Machine description and function: Mower for mowing and conditioning grass and other forage crops for agricultural harvesting.

Model: Pro Glide **Serial Number:** _____

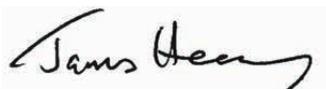
Name of Manufacturer: McHale Engineering
Address: Ballinrobe, Co. Mayo. Rep. of Ireland

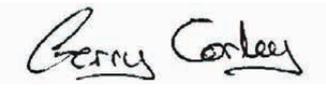
Is in conformity with the provisions of the EC directives:

Technical file compiled by: James Heaney
c/o McHale Engineering
Ballinrobe, Co. Mayo. Rep. of Ireland

Harmonized standards applied:

- EN ISO 12100: Safety of machinery - Basic concepts, general principles for design
 - Part 1: Basic terminology, methodology
 - Part 2: Technical principles and specifications
- EN ISO 4254 Part 1: Agricultural Machinery - Safety and general requirements

Signed: 
Date: **Place:** Ballinrobe, Co. Mayo, Rep. of Ireland
Name: James Heaney
Position: Design Office Manager

Signed: 
Date: **Place:** Ballinrobe, Co. Mayo, Rep. of Ireland
Name: Gerry Corley
Position: Quality Manager



Pre-delivery inspection form

 PRE-DELIVERY INSPECTION (PDI)	
Dealer:..... Full address:..... Fitter:..... Customer: Full address:.....	Model: Pro Glide Serial No:..... Date delivered:..... Date inspected:..... Tel:..... Mobile:..... E-mail:.....
ENSURE THAT THE TRACTOR IS OF THE CORRECT SPECIFICATION FOR THIS MACHINE. REFER TO THE OPERATOR INSTRUCTION MANUAL BEFORE MAKING ANY ADJUSTMENTS!	
This machine must be registered on www.mchale.net by the dealer in order to qualify for warranty!	
1. Check that all accessories are with the owner/operator. Check operators instruction manual and parts lists.	8. Check all manual & hydraulic functions.
2. Ensure machine is re-assembled correctly. (Refer to all assembly instructions supplied)	9. Check for hydraulic leaks, both internal (Creep) and external.
3. Ensure that all items are properly installed and check all bolts & nuts are torqued correctly.	10. Check for smooth operation of all moving parts. Ensure correct LH or RH cutting blades are used for each disc.
4. Use minimum CAT 2 link pins and adjustable top link when coupling the machine to a suitably sized tractor.	11. Use extreme caution when working around sharp blades and tine-points. Always wear protective clothing and gloves!
5. Ensure guards, lights and hydraulic hoses are fitted correctly, before coupling the machine to a tractor.	12. The operator must be fully aware of all hazards, controls (hydraulic), all functions & safety features of both the machine and the tractor.
6. When mounted on a tractor check that the main mower frame is vertical. Then adjust the top link to set the required cutting height.	13. Ensure that the owner/operator reads the operator instruction manual and understands fully all safety & operating aspects of the machine, as described.
7. Connect hydraulic hosing to the tractor and ensure proper hydraulic setup. Main lift ram hydraulic supply must have float.	14. Instruct operator on maintenance i.e. check mountings, adjustments and areas to be greased daily along with other routine functions.
I am satisfied that the above checks have been carried out, and that the machine is complete with all accessories and manuals.	
Signed:.....	(Dealer) Date:.....
Signed:.....	(Owner) Date:.....
A signed copy of this form is to be retained by both the dealer and the customer!	

McHale Limited Warranty

McHale Engineering, Ballinrobe, Co. Mayo, Ireland (hereinafter called 'the company') warrants to the original retail purchaser that new products sold and registered with the company, shall be, at the time of delivery, free from defects in material and workmanship, and that such equipment is covered under Limited Warranty providing the machine is used and serviced in accordance with the recommendations in the operator's manual.

This Limited Warranty covers the equipment for 10,000 bales, or a period of one year starting from the date the equipment is commissioned, whichever comes first.

The online submission of the pre-delivery inspection (PDI) form by the dealer (importer) is taken as evidence of the delivery of the machine to the original retail purchaser. This is compulsory, and is required to record the machine in the **McHale** warranty system.

These conditions are subject to the following exceptions:

- Parts of the machine which are not of **McHale** manufacture, such as tyres, PTO shafts, slip clutches, hydraulic cylinders, etc. are not covered by this Limited Warranty, but are subject to the warranty of the original manufacturer. Warranty claims applying to these types of parts must be submitted in the same way as if they were parts manufactured by **McHale**. However, compensation will be paid in accordance with the warranty agreement of the manufacturer concerned.
- This Limited Warranty does not apply to failure through normal wear and tear, to damage resulting from negligence or from lack of inspection, from misuse, from lack of maintenance and/or if the machine has been involved in an accident, lent out or used for purposes other than those for which it was intended by the company.
- This Limited Warranty will not apply to any product that has been altered or modified in any way without the express permission of the company, or if parts not approved by **McHale** are used in repair.
- The company take no responsibility for any additional costs, including loss of oil and/or consumables incurred during the failure and repair of a product
- The company cannot be held responsible for any claims or injuries to the owner or to the third party, nor to any resulting responsibility.
- Also, on no account can the company be held liable for incidental or consequential damages (including loss of anticipated profits) or for any impairment due to failure, a latent defect or a breakdown of a machine.

The customer will be responsible for the following costs:

- Normal maintenance such as greasing, maintenance of oil levels, minor adjustments, etc. as specified in the operator's manual.
- Labour charges other than originally agreed, incurred in the removal and replacement of components.
- Dealer's travel time and travel costs to and from the machine.
- Parts defined as normal wear items such as, but not limited to PTO shafts, chains, tyres, bearings, belts, blades, knives, tines, tine bars, slip clutches, nylon chain runners and slides, etc. that are not covered under the Limited Warranty.

McHale Pro Glide F3100 Front Disc Mower

The importer will be responsible for the following costs:

- All warranty labour charges.

The warranty is dependent on the strict observance of the following:

- The machine has been put in service by the **McHale** dealer according to our instructions.
- The online pre-delivery inspection (PDI) form has been correctly completed by the dealer.
- A printed version of the PDI form has been signed and dated by the original retail purchaser. This copy is to be stored by the dealer and made available to **McHale** when requested.
- The warranty claim is submitted using the **McHale** online claims system.
- The warranty claim must be submitted by the original retailing **McHale** dealer only.
- The decision of the company in all cases is final.
- Damaged parts should be held by the dealer until credit has been given, or a returns request has been issued.
- Parts must be returned to **McHale**, with the **McHale** claim number written clearly on each individual part. These parts must be free from dirt and oil. If a part is returned in an unfit state, the claim will be refused.
- If damaged parts have been returned to the company and warranty is refused, the dealer is allowed a period of one month from the date of receiving our notification to request the return of the damaged parts to the dealer site.

Further conditions - limits of application and responsibility:

- This Limited Warranty cannot be assigned or transferred to anyone without the prior written consent of the company.
- **McHale** dealers have no right or authority to assume any obligation or take any decision on the company's behalf, whether expressly or tacitly.
- Technical assistance given by the company or its agents for repairing or operating equipment does not lead to any responsibility on the company's behalf and cannot under any circumstances bring novation or derogation to the conditions of the present Limited Warranty.
- The company reserves the right to incorporate changes in its machines without prior notice and without obligation to apply these changes to machines previously manufactured.
- The present Limited Warranty excludes any other responsibility, whether legal or conventional, express or implied, and there are no warranties extending beyond those defined herein.