



99-95518005 - ISSUE 6

ENGLISH

# T150 HEDGE TRIMMER OPERATORS MANUAL



[www.augertorque.com](http://www.augertorque.com)

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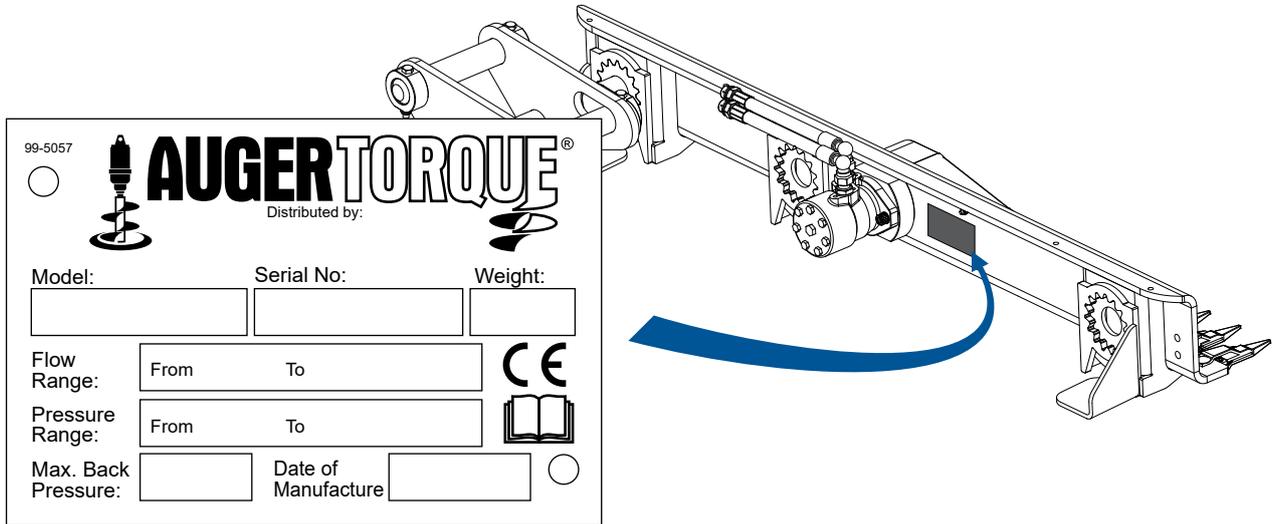
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# FOREWORD

## Enquiries

Please state the model type and serial number when making enquiries or orders and all written correspondence. The serial number is recorded on a plate located on the main body next to the hydraulic motor.



## Operating Limits

This equipment must be operated within the parameters stated on the serial plate. Failure to do so may cause damage to the equipment and invalidate the warranty. Full operating limitations can be found in the Specifications section. If in doubt, contact your nearest Auger Torque dealer.

## The Machinery Directive (European Community only)

The Machinery Directive 2006/42/EC (formerly 98/37/EEC) provides the harmonisation of the essential health and safety requirements for machinery, through a combination of mandatory health and safety requirements and voluntary harmonised standards. Such directives apply only to products that are intended to be placed on or put into service in the market for the first time. The manufacturer or the authorised representative must draw up a 'Declaration of Conformity'.

## Declaration Of Conformity

Where Hedge Trimmer Units are supplied in conjunction with Auger Torque Europe Ltd manufactured mounting frames, Auger Torque Europe Ltd have control over the suitability of the parts supplied. To show this and meet with the lawful requirements of the Machinery Directive a Declaration of Conformity is issued and a CE mark is applied to the assembly.

**(copy example follows)**



Manufactured By  
**Auger Torque Europe Limited**

# EU Declaration of Conformity

The responsible person:

Name	
Position	
Company Name	<i>Auger Torque Europe Ltd.</i>
Address	<i>Hazelton, Cheltenham, GL54 4DX, England</i>
Telephone	<i>++44 (0) 1451 861652</i>
Fax	<i>++44 (0) 1451 861660</i>

Declares that the product described:

Manufacturer	<i>Auger Torque Europe Ltd.</i>
Model	
Serial Number	

**Conforms to the Machinery Directive 2006/42/EC.**

It also complies with the essential health and safety requirements, national standards and the transposed harmonised standards appropriate for this product.

Signed by:  
*(The responsible person)*

Dated

## REGISTRATION

Complete this form and keep it with the manual



Auger Torque Europe Ltd  
Hazleton  
Cheltenham  
GL54 4DX  
England  
Tel:+44(0)1451 861652  
Fax:+44(0)1451 861660  
Email: sales@augertorque.com

Auger Torque Australia Pty Ltd  
122 Boundary Rd  
Rocklea  
Queensland 4106  
Australia  
Tel:+61(0)7 3274 2077  
Fax:+61(0)7 3274 5077  
Email: sales@augertorque.com.au

Auger Torque USA LLC  
2640 Jason Industrial Parkway  
Winston, GA 30187  
USA  
Tel: (+1) 844 287 6300  
Fax: (+1) 770 947 9916  
Email: sales@augertorqueusa.com

MODEL NUMBER:

SERIAL NUMBER:

DATE OF MANUFACTURE:

SUPPLIER / DEALER:

DATE SOLD TO SUPPLIER / DEALER:

DATE SOLD TO ORIGINAL END USER:

OWNER OR OPERATOR:

PARENT MACHINE MAKE & MODEL:

Note; Always quote the serial number in any communication with your supplier / dealer

## REGISTRATION

For warranty purposes this form **MUST** be completed and returned to Auger Torque within 14 days of purchase by the end user.



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**For warranty purposes the form on the reverse of this page should be completed and returned to the appropriate address.**

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Email: sales@augertorqueusa.com

**Just fill in the details on the back and post it to us,  
the address is printed on the front.**

## INTRODUCTION

Auger Torque thank you for purchasing your new product. This operating manual has been prepared to enable you to operate the equipment in a safe manner.

Auger Torque Hedge Trimmer Units have been designed for use with specific Auger Torque mounting frames. Provided these are used and maintained correctly, they will provide a safe and reliable method of hedge trimming.

The T150 is a reciprocating trimmer finger bar type attachment for use with small to medium sized 360 degree excavators, or other power units as approved by the manufacturer.

For attachment of the unit, consult the manual of the parent machine and follow the manufacturers instructions.

To use the Hedge Trimmer, the operator positions the parent machine adjacent to the hedge and within safe reach of the machine's boom. Using the boom controls, the Hedge Trimmer is moved along the hedge, allowing the hydraulically driven, reciprocating Trimmer bar to cut the vegetation. Care should be taken to match the speed of travel to the maturity and density of the hedge.

The standard controls on the parent machine will provide more than 90 degrees of rotation of the Trimmer bar, this will allow fine control of the cutting angle, to permit accurate "topping" and "breasting" of the hedge. To allow positioning of the Trimmer bar behind timber or electric fences, the Trimmer bar linkage can be inverted prior to operation, to provide a range of operating angles below the mounting hitch.

### **NOTE:**

This operating manual should be used in conjunction with the parent machine's operating instructions.

Instruction books should be regarded as part of the machine. They should always be kept safe with the machine for easy and quick reference.

The directions left, right, front and rear, which may be mentioned throughout this manual, are as seen from the driver's seat and facing in the direction of travel.

New or extra copies can be obtained from your Auger Torque dealer or direct from Auger Torque.

Auger Torque continually strives to improve and increase its range of products and therefore reserves the right to alter its specifications at any time without notice or obligation. The company accepts no responsibility for discrepancies which may occur between specifications of its machines and descriptions thereof contained in its publications.

## SAFETY NOTES

### Protect Yourself

Make sure you wear protective clothing and personal safety items.

### You May Need

- A Hard Hat
- Safety Goggles
- Hearing Protection
- Foul Weather Clothing
- Reflective Clothing
- Protective Gloves
- Safety Boots

**DO NOT** wear items of loose clothing, jewellery or other items and tie up any long hair which could entangle in the controls or other parts of the machine.

### Know Your Equipment

Get to know how to operate all controls on the machine and the attachments.

IF THERE IS SOMETHING IN THE MANUAL WHICH YOU DO NOT UNDERSTAND, CONTACT THE MACHINE AGENT OR MANUFACTURER AND ASK THEM TO EXPLAIN IT TO YOU.

### Danger, Warning And Caution

This symbol below has 3 important meanings when used with the following captions.



**DANGER:** An IMMEDIATELY HAZARDOUS situation that WILL result in DEATH or VERY SERIOUS INJURY



**WARNING:** A POTENTIALLY HAZARDOUS situation that COULD result in DEATH or VERY SERIOUS INJURY



**CAUTION:** A POTENTIALLY HAZARDOUS situation that MAY result in MINOR INJURY

## Protective And Safety Devices

Keep all protective devices in place and securely fastened. Make sure all guards, shields and safety signs are properly installed and are in good condition.

## Check The Equipment

Before you operate the equipment, take time to check your machine and ensure that all systems are in good operational order.

- Never operate the equipment with worn, damaged or missing parts. Use only genuine replacement parts.
- Always ensure that the parent machine is secure and stable with its engine switched off and hydraulic pipes disconnected before carrying out any maintenance work.
- Check for loose, broken, missing or damaged parts. Have everything put into good repair and make sure all safety devices are in place.
- Perform all maintenance procedures outlined for the equipment.
- Always protect hands. Select appropriate gloves when handling the equipment during fitting, removing or adjusting
- Always protect feet with safety boots.



**WARNING:** Hydraulic fluid under pressure can penetrate the skin or eyes and cause serious PERSONAL INJURY, BLINDNESS OR DEATH. Fluid leaks under pressure may not be visible. Use a piece of wood or thick cardboard to find leaks. DO NOT USE YOUR BARE HANDS. Wear safety goggles for eye protection. If any fluid is injected into the skin, it MUST be surgically removed. SEE A DOCTOR IMMEDIATELY

Make sure all hydraulic lines are correctly installed

Before applying pressure to the hydraulic system be sure all connections are tight and that lines, pipes and hoses are not damaged. Before disconnecting hydraulic lines, be sure to relieve all pressure.

## Hazard Classification (Only applicable to ANSI Safety Labels)



**DANGER:** IMMEDIATE HAZARD! - Failure to understand or obey this information is likely to result in personal injury or death.



**WARNING:** Failure to follow these instructions may result in personal injury or death.



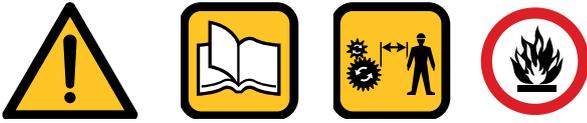
**CAUTION:** Failure to follow these instructions may result in minor personal injury or damage to the machine or the vehicle.



**NOTICE:** This is important information for the proper use of this equipment. Failure to comply may lead to premature equipment failure.

**CLEAN OR REPLACE THE SAFETY LABELS IF THEY CANNOT BE CLEARLY READ OR UNDERSTOOD**

## Safety Precautions



**NEVER** operate or assemble the equipment without **fully** understanding the operating instructions of both the equipment unit and the parent machine.

**Auger Torque recommend you receive dealer instruction** before operating the unit.

**NEVER** operate the equipment unless you are in good physical condition and mental health.

**NEVER** operate the equipment under the influence of any substance (including drugs & alcohol) which might impair vision.

**NEVER** operate the equipment with worn, damaged or missing parts. Use only genuine replacement parts.

**NEVER** proceed with works before completing a site risks assessment immediately before commencing work. Nominating the safe work exclusion zone radius for persons and animals as part of identifying risks and implementing controls.

**NEVER** allow minors to operate the equipment.



**ALWAYS** survey the work area before commencing operations. Check for potential hazards, eg. Electricity or communication cables etc.

**ALWAYS** ensure that the parent machine is secure and stable with it's engine switched off before carrying out any maintenance work.

**ALWAYS** ensure the hydraulic oil supply to the attachment is disconnected by uncoupling the hydraulic hose connectors before fitting, removing or adjusting the equipment.

**ALWAYS** wear head protection and eye protection when working on the unit.

**ALWAYS** protect hands. Select appropriate gloves when handling the equipment during fitting, removing or adjusting the unit.

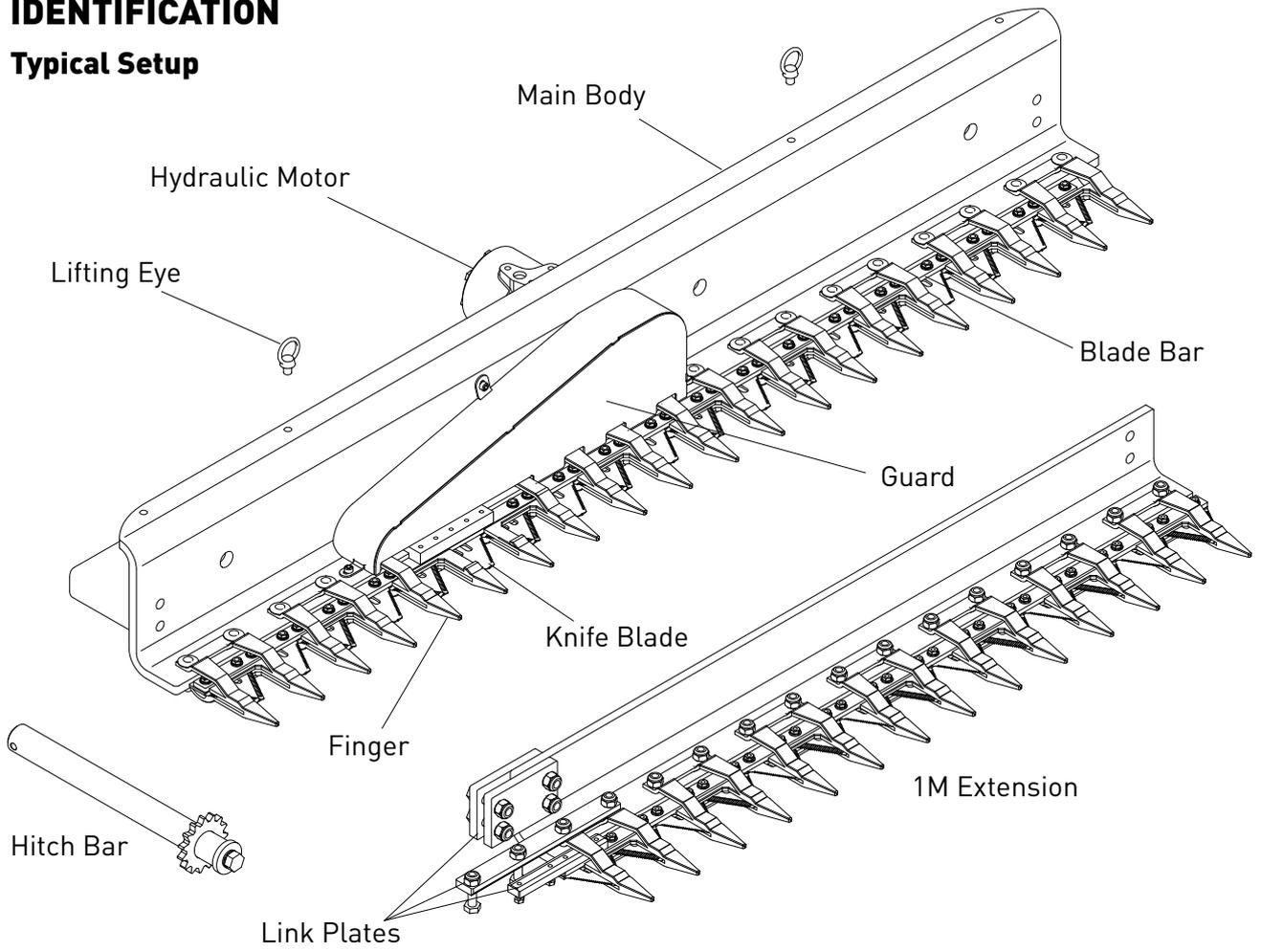
**ALWAYS** protect feet. Wear approved safety boots.

**ALWAYS** follow the parent machine instructions regarding noise protection.

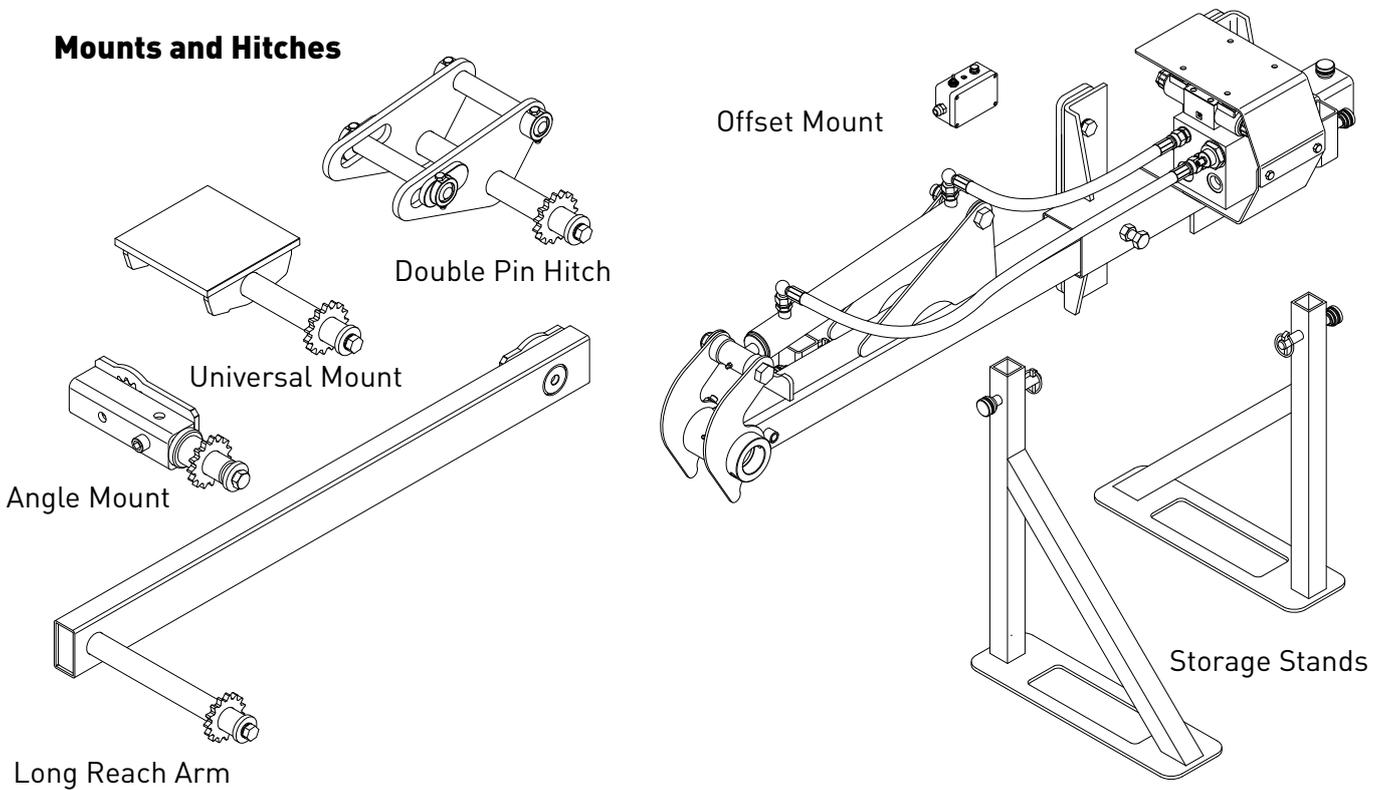
**STAY ALERT.** Should something break, come loose or fail to operate on your equipment, **STOP WORK**, lower equipment to the ground, shut off the engine and lock out hydraulic supply, inspect the machine and have repairs or adjustments made before resuming operation.

# IDENTIFICATION

## Typical Setup



## Mounts and Hitches



## SPECIFICATION

T150 TECHNICAL INFORMATION	50cc Motor	80cc Motor	100cc Motor
<b>CARRIER WEIGHT</b>	1.5 - 2.5T Excavators Skid Steer Loaders	2.5 - 4.5T Excavators Skid Steer Loaders	4.5 - 8.0T Excavators Skid Steer Loaders
<b>BLADE LENGTH</b>	1500 mm	1500 mm	1500 mm
<b>MAXIMUM CUTTING THICKNESS</b>	25mm	40mm	40mm
<b>OIL PRESSURE RANGE</b>	150 - 220 Bar	150 - 220 Bar	150 - 220 Bar
<b>OIL FLOW RANGE</b>	30 - 48 lpm	40 - 68 lpm	50 - 71 lpm
<b>UNIT HEIGHT</b>	292mm	292mm	292mm
<b>UNIT WIDTH</b>	1537mm	1537mm	1537mm
<b>UNIT DEPTH</b>	357mm	357mm	357mm
<b>UNIT WEIGHT</b>	69kg	69kg	69kg
<b>EXTENSION INFORMATION</b>	Not suitable	3.5T/45LPM and above	
<b>BLADE LENGTH</b>	-	1000mm	
<b>UNIT HEIGHT</b>	-	120mm	
<b>UNIT WIDTH</b>	-	1058mm	
<b>UNIT DEPTH</b>	-	217mm	
<b>UNIT WEIGHT</b>	-	26kg	

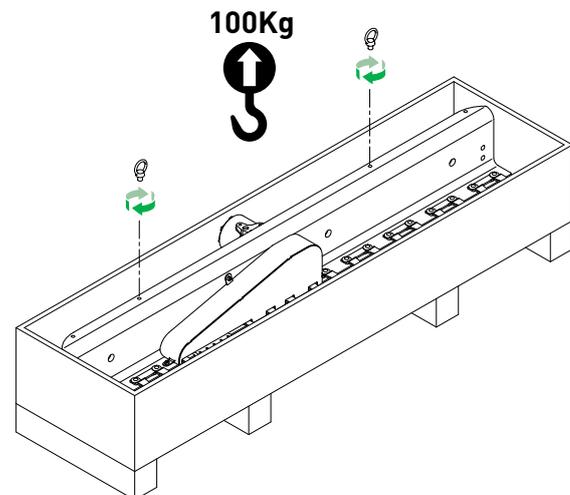
### Oil Flow Limitations

The Hedge Trimmer attachment requires an absolute minimum of 30 LPM to the attachment at all times to cut a maximum of 25mm diameter foliage. Increase the oil flow accordingly to effectively cut up to 40 mm diameter foliage.

When used with the optional 1 metre Extension, the Hedge Trimmer attachment requires an absolute minimum of 45 LPM.

The minimum hydraulic flow rate needs to be delivered to the attachment regardless of whether the carrier machine is stationary or tracking. When tracking, most excavators take flow from the attachment line and prioritise it to the tracking function. If this results in the attachment line receiving less than the minimum flow rate required, the hedge trimmer will not operate efficiently.

With a lot of excavators, the slewing function does not starve the hydraulic flow to the attachment line to the same severity as the tracking function, which means the operator can use the hedge trimmer effectively by slewing to cut then moving the tracks, stopping and slewing to cut again, repeating this process to complete the task.



## MOUNTING AND ADJUSTING THE HEDGE TRIMMER

### SAFETY FIRST



**ALWAYS** check parent machine:

- Is in correct working order
- Is parked correctly on flat ground
- Has its hand brake **ON**, its hydraulic circuit locked out and its engine switched **OFF**.

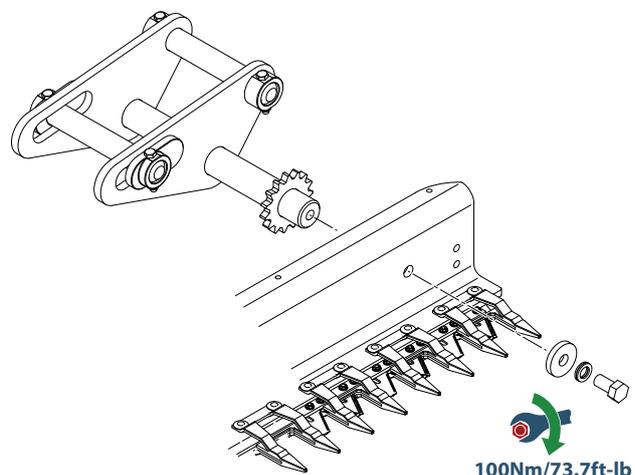
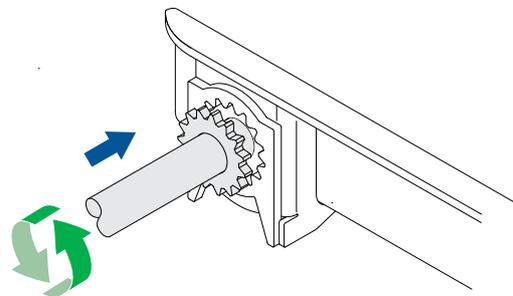
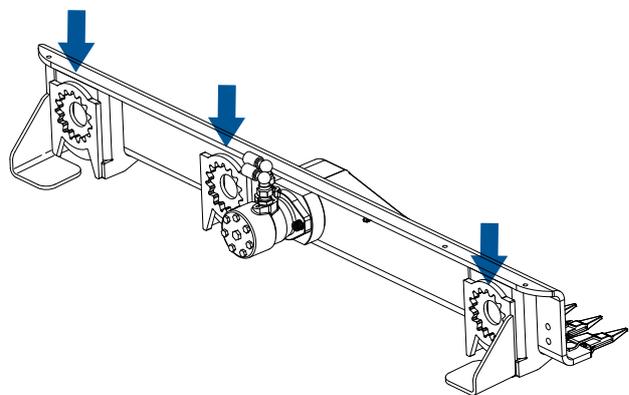
Check that the mounting frame is of the correct model and type to fit the parent machine.  
Ensure mounting frame and attachment points are clean before fitting.  
Use suitably rated lifting equipment if required (see data plate for weight).

Hoses should always be disconnected when fitting, removing or adjusting mounts

The Hitches and Mounts are connected to the Hedge Trimmer in the same way.

Engage dog gear into one of the three Hedge Trimmer mounts on the rear of the main body (dependent on customer requirements). These mounts allow the hedge trimmer a 360° mounting position.

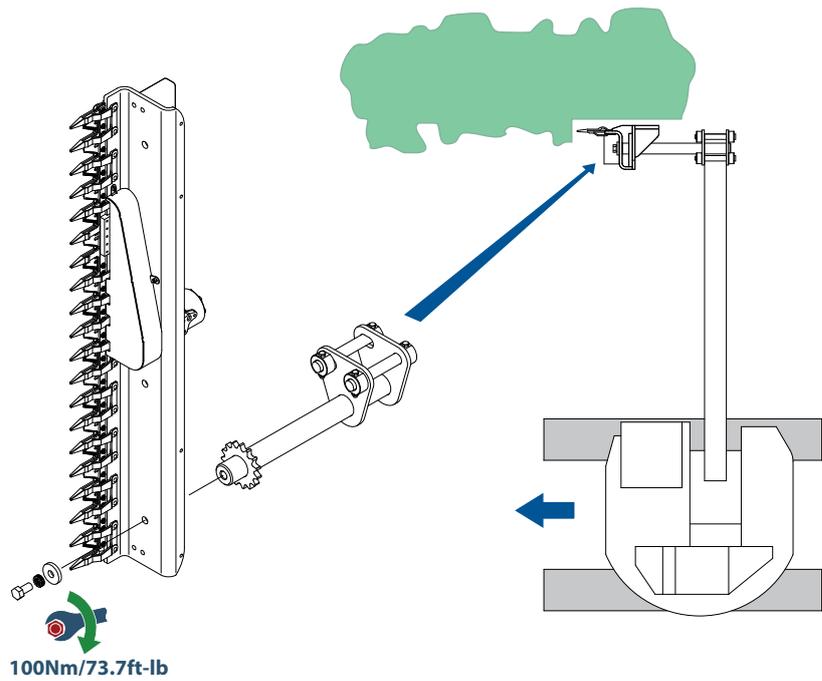
Once required position is located secure with fixing bolt and washers and tighten to 100Nm.



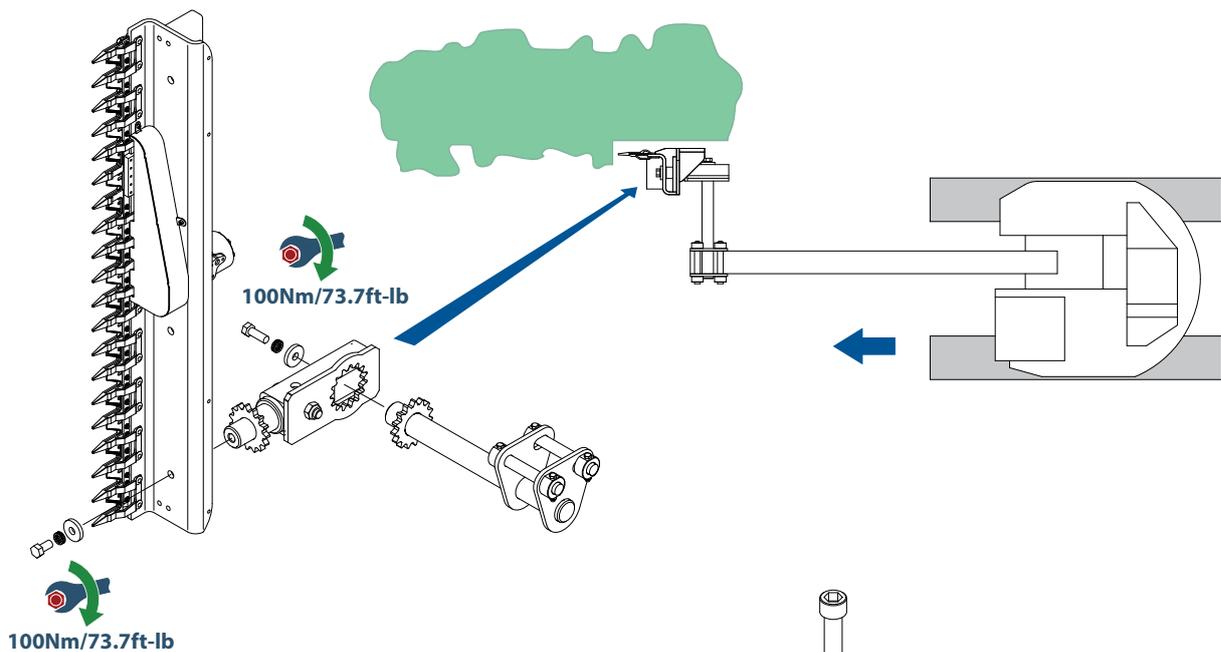
## Angle Mount

The angle mount allows the hedge trimmer to be mounted at 90° to the hitch.

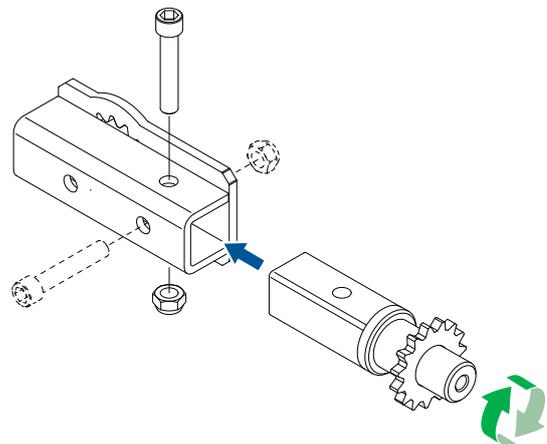
When the excavator is fitted with a double pin hitch and a hedge trimmer mounted in a vertical position, the cab and boom have to be at 90° to the tracks.



With the angle mount fitted between the double pin hitch and the hedge trimmer the cab and boom remain in line with the tracks.

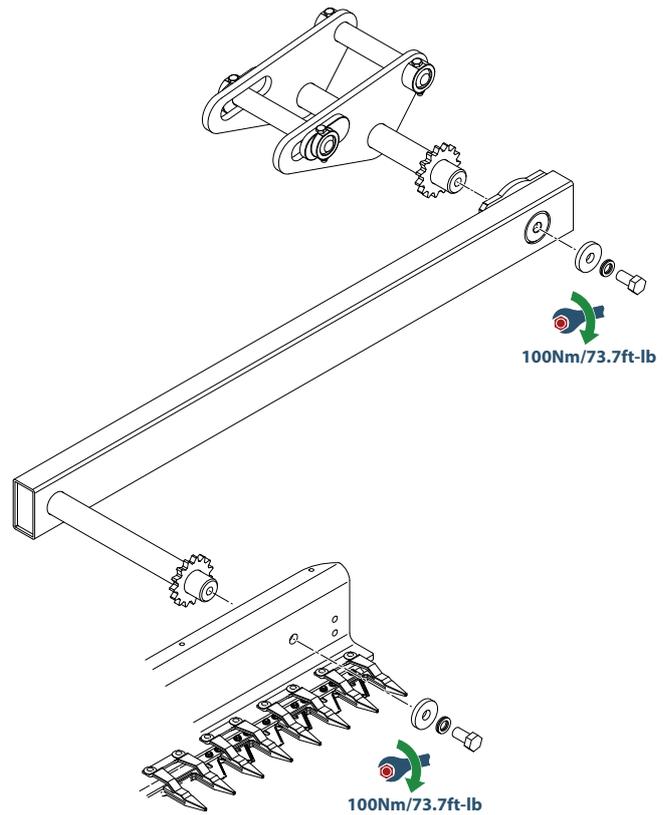


To achieve the desired angle of the hedge trimmer the angle mount shaft can be removed and rotated 90°



## Long Reach Arm

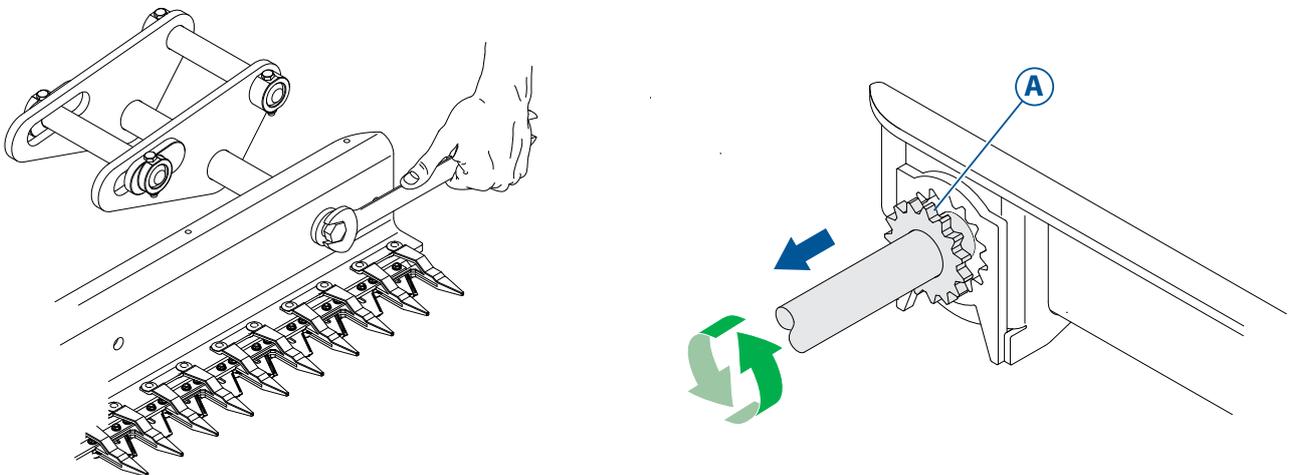
The long reach arm can be used with all our hitches and the angle mount and extends the reach of the hedge trimmer by a metre.



## Adjustment

Slacken the fixing bolt to allow adjustment to the required angle of operation. Carefully slide the cutter head along the mounting shaft 20-25mm to disengage the dog gear (A).

Rotate the cutter head to select the required angle of operation then re-engage the dog gear by sliding the cutter head back into position. Re-tighten the fixing bolt to 100Nm before operation.



## HYDRAULIC CONNECTIONS

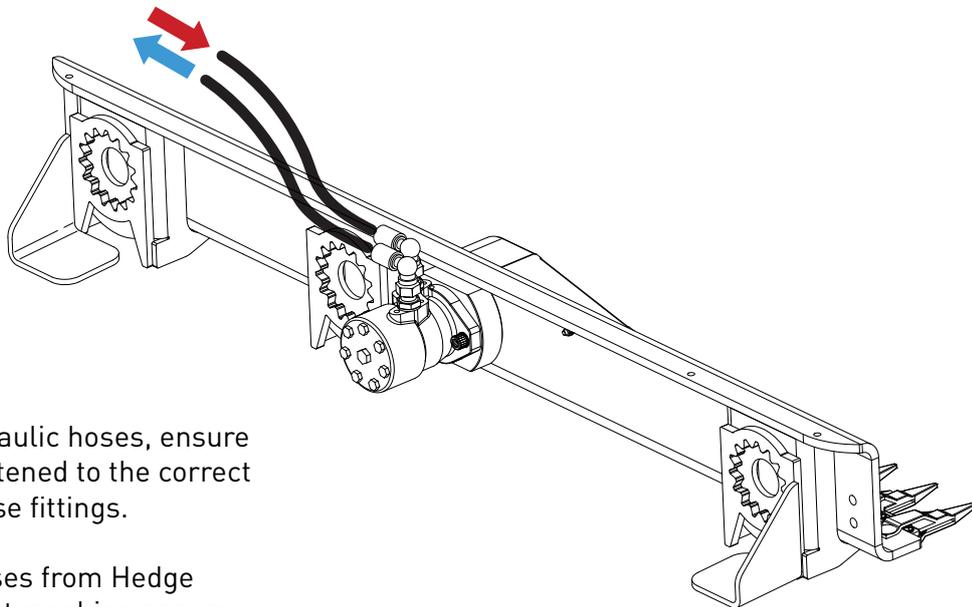


### WARNING:

Hydraulic fluid under pressure can penetrate the skin or eyes and cause serious personal injury, blindness or death. Fluid leaks under pressure may not be visible. Use a piece of card or wood to find leaks. **DO NOT** use your bare hands. Wear safety goggles to protect your eyes. If any fluid is injected into the skin, it **MUST** be surgically removed. Seek immediate medical attention.

Auger Torque Hedge Trimmers have been designed for use with specific Auger Torque mounting frames. Provided these are used and maintained correctly, they will provide a safe and reliable method of hedge trimming.

Auger Torque Hedge Trimmers require a 'flow' and 'return' of hydraulic fluid from the parent machine's auxiliary hydraulic power supply to operate. The Hedge Trimmer requires the host machine to be fitted with a two way flow auxiliary circuit. Check with the parent machine dealer for advice.



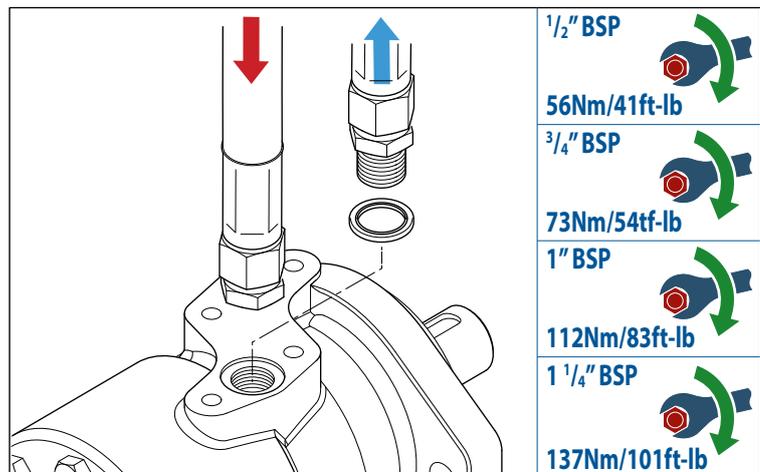
When fitting hydraulic hoses, ensure that they are tightened to the correct torque for the hose fittings.

When routing hoses from Hedge Trimmer to parent machine ensure hoses are free and clear of blades.

The parent machine auxiliary hydraulic connections are normally located near the end of the excavator dipper.

It is critical that the supply of oil is within the stated limits of the Hedge Trimmer.

Check that the rated flow (l/min - gal/min) & pressure (Bar - PSI) of your machine does not exceed the limits shown on the serial plate.



## MOUNTING - Skidsteer and Miniloader Offset Mount

### SAFETY FIRST



**ALWAYS** work in pairs (2 skilled operatives) whenever the components are being assembled or disassembled from the parent machine. Always check the weight of the attachment and ensure you have the correct equipment for handling it.



**ALWAYS** check parent machine:

- Is in correct working order
- Is parked correctly on flat ground
- Has its hand brake **ON**, its hydraulic circuit locked out and its engine switched **OFF**.

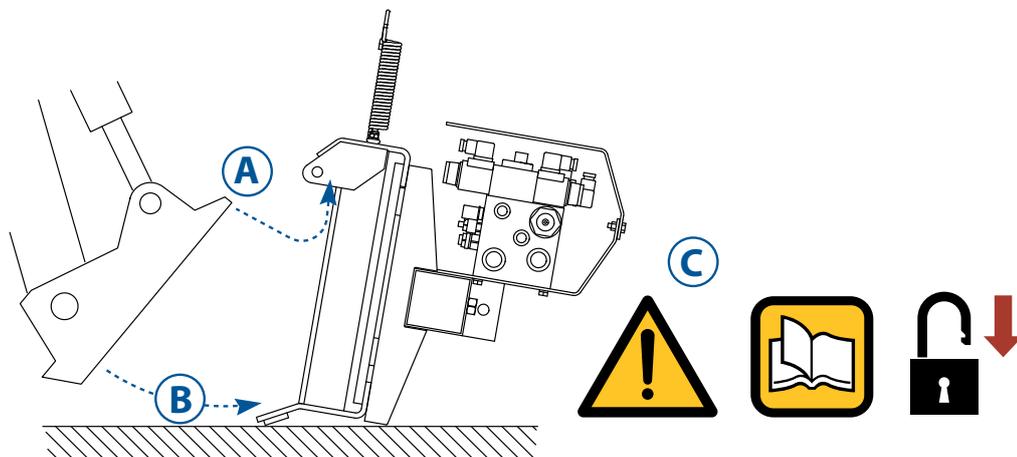
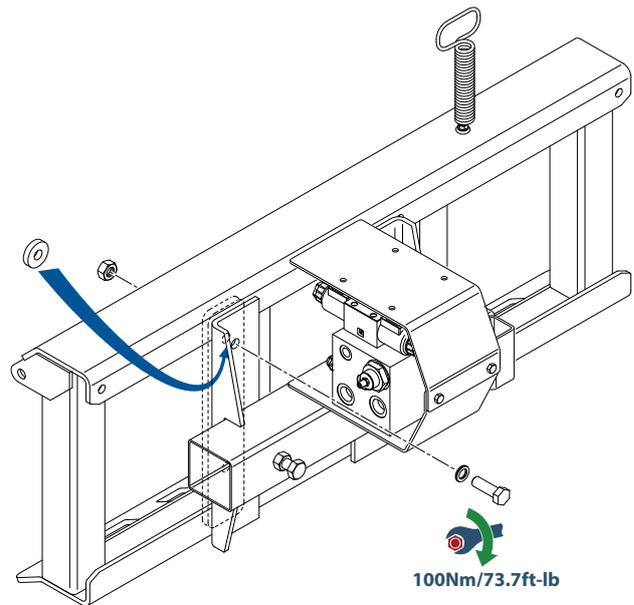
Check that the mounting frame is of the correct model and type to fit the parent machine. Ensure mounting frame and attachment points are clean before fitting. Use suitably rated lifting equipment if required (see data plate for weight).

Hoses should always be disconnected when fitting, removing or adjusting.



**FITTING:** Ensure all components are greased on assembly:

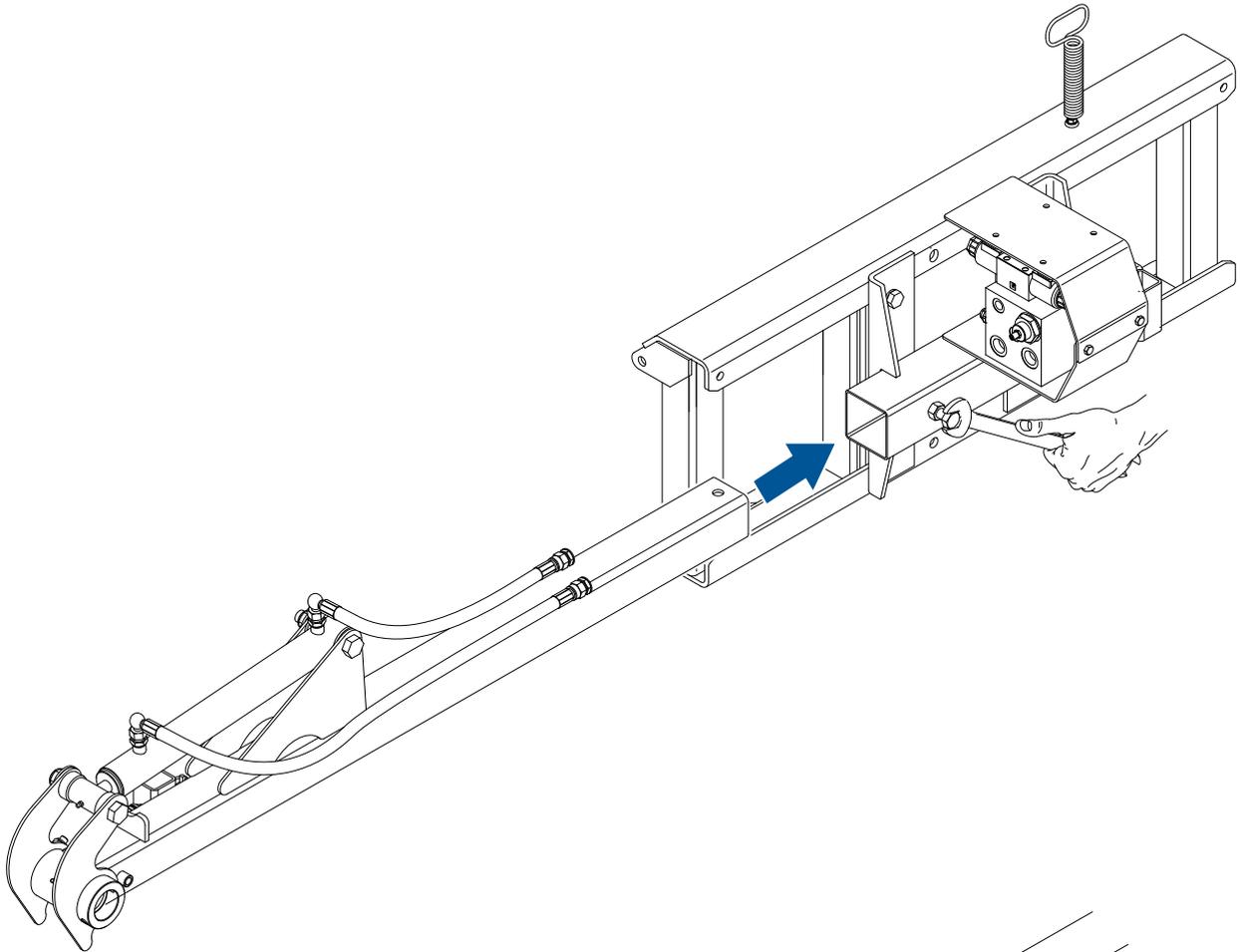
- Fit offset mount back plate to mounting frame, ensure spacer is fitted between back plate and mount supports tighten to 100Nm.
- Slot the top of the parent machine frame under the top edge of the Mounting Frame or Locating Hooks (A) (refer to parent machine operator's manual).
- Swing the parent machine frame to the vertical position (B).
- Following the parent machine operators manual, ensure that the Mounting Frame is securely locked in place (C).



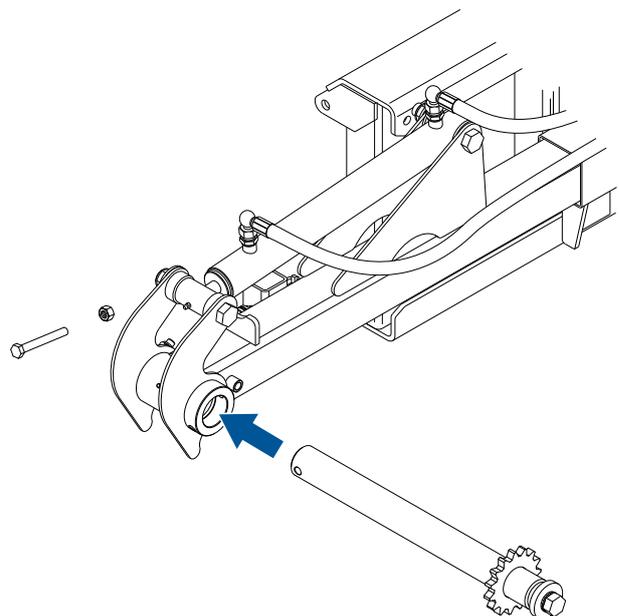
- Slide offset mount body assembly in to the right-hand side of the back plate with the ram uppermost.

**NOTE:** If the valve block is rotated through 180° the offset mount body can be fitted on the left-hand side dependent on customer requirements.

- Lock body in required position using the three locking screws in the back plate.
- Fit pin and lynch pin to the end of offset mount body.
- Connect hydraulic hoses. See Page 21.



- Push hitch bar (supplied with hedge trimmer) through the body assembly and fix using the rear hole position. The hitch bar can be fitted from either side always using the rear hole position.



## HYDRAULIC CONNECTIONS - Skidsteer and Miniloader Offset Mount

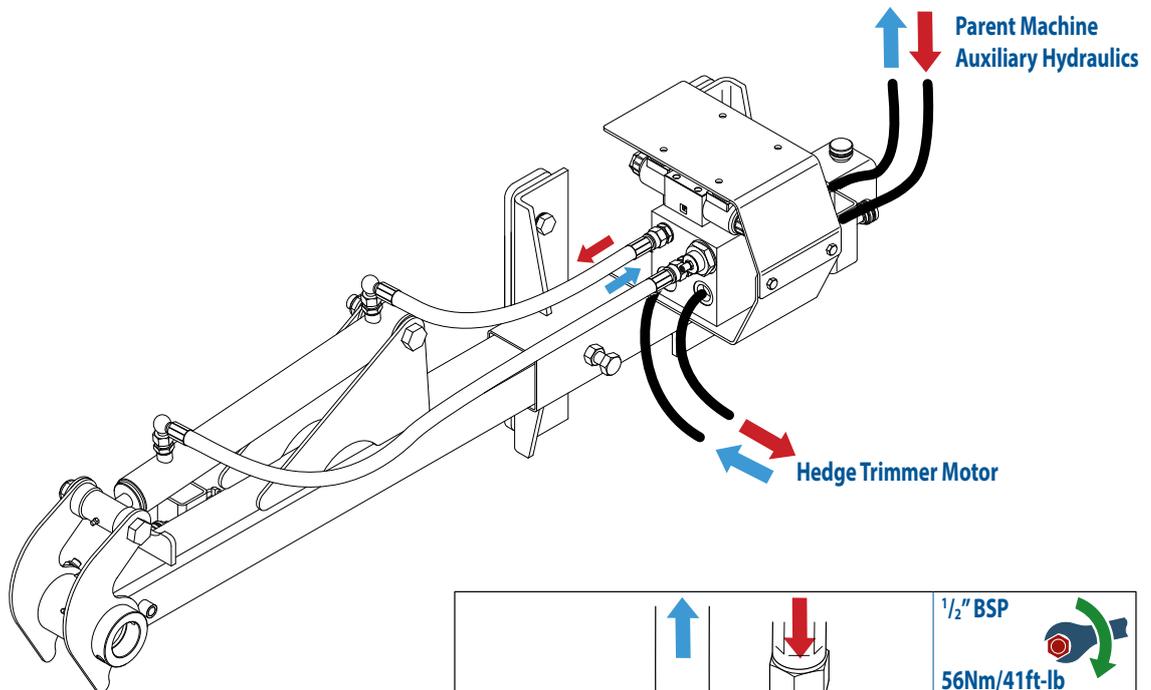


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When fitting hydraulic hoses, ensure that they are tightened to the correct torque for the hose fittings.

When routing hoses from Hedge Trimmer to parent machine ensure hoses are free and clear of blades.

The parent machine auxiliary hydraulic connections are normally located near the end of the loader arms.

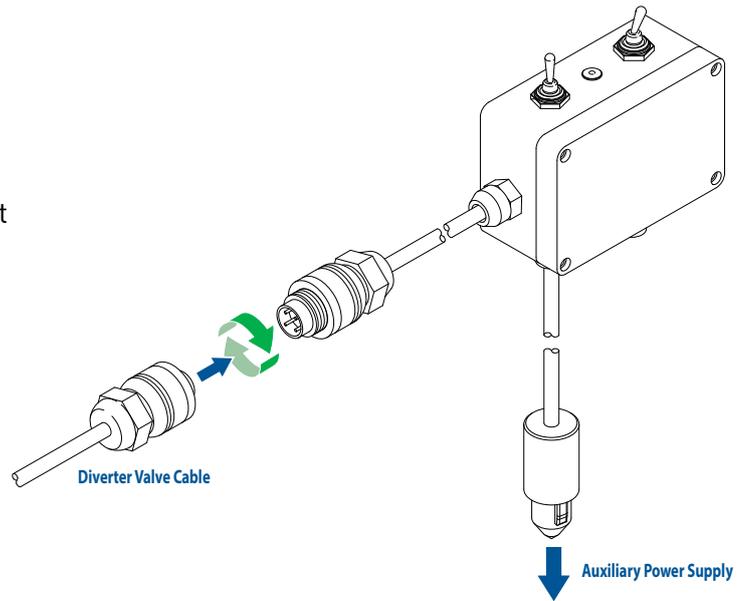
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Check that the rated flow (l/min - gal/min) & pressure (Bar - PSI) of your machine does not exceed the limits shown on the serial plate.

1/2" BSP	
56Nm/41ft-lb	
3/4" BSP	
73Nm/54ft-lb	
1" BSP	
112Nm/83ft-lb	
1 1/4" BSP	
137Nm/101ft-lb	

## CONTROL BOX

- Mount control box in a suitable position in the operators area so that the toggle switches are accessible.
- Route diverter valve cable along parent machine to the control box in the operator's area. Secure as necessary, ensure cable is free and clear of blades.
- Connect the diverter valve cable plug to the control box plug.
- Connect the control box to the parent machines auxiliary power supply.

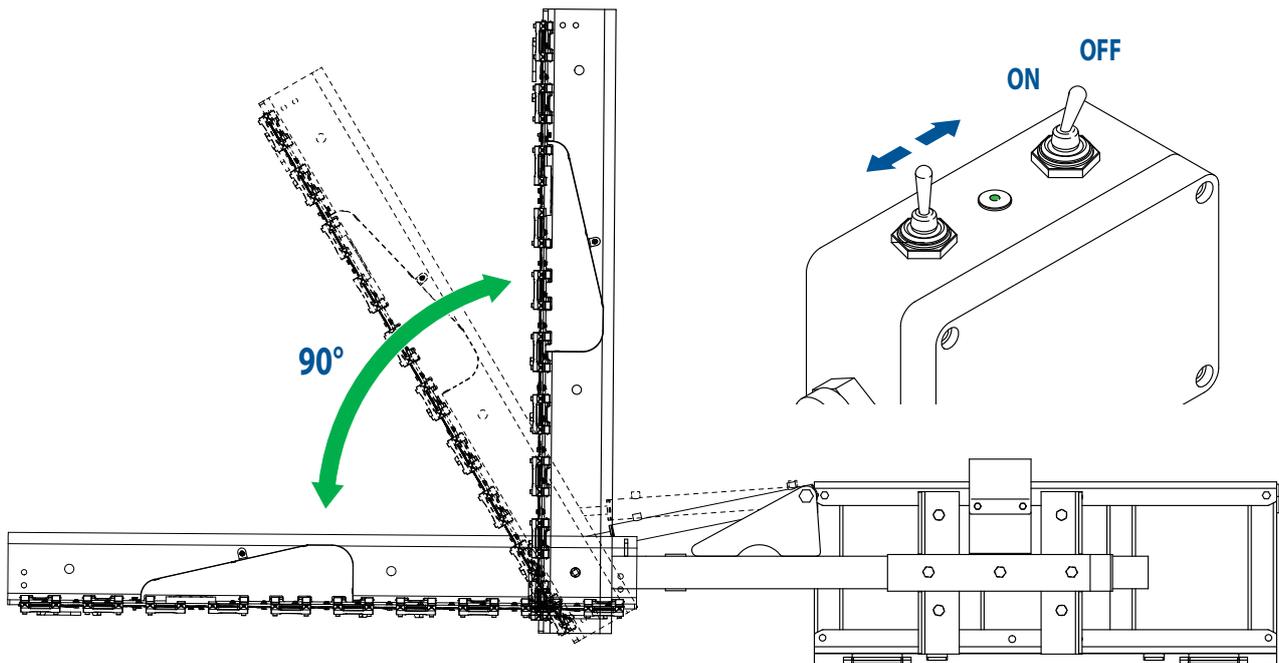


## OFFSET MOUNT OPERATION

Switch the control box on, a green light will illuminate. The auxiliary controls on the parent machine can now be used to operate the hedge trimmer.

The toggle switch nearest the valve cable entry is used to adjust the angle of the hedge trimmer from the driver's position.

To change the angle of the trimmer press and hold the toggle switch forward or backwards to change the angle. When the correct angle is achieved release the toggle switch.



## OFFSET MOUNT - Storage Stands

### SAFETY FIRST



The Hedge Trimmer should **NEVER** be operated with the storage stands fitted.

When the offset mount is not in use it can be placed on storage stands for ease of storage and access.

Retract the ram as far as possible to position the hedge trimmer over the mount.

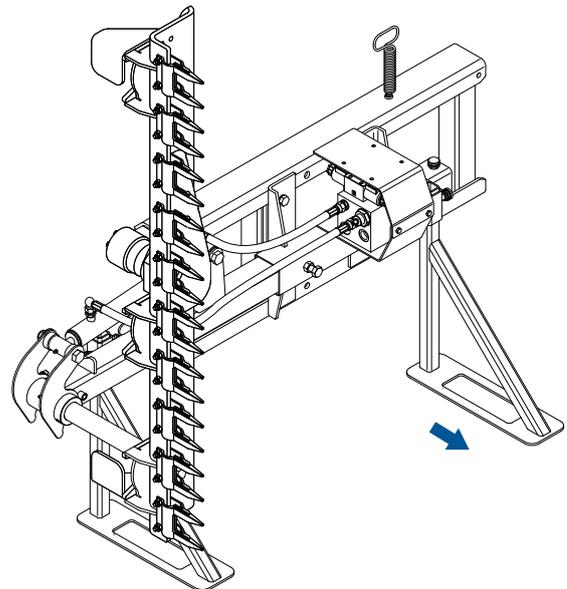
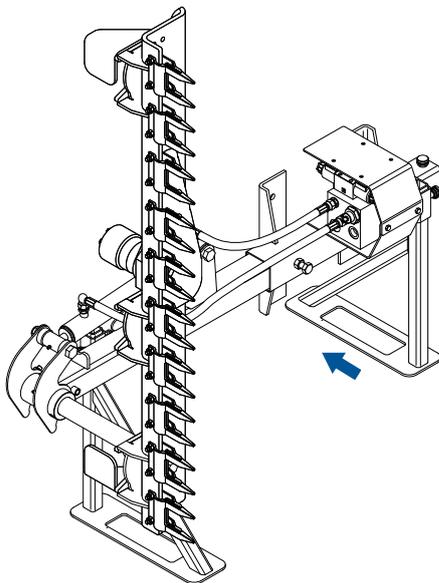
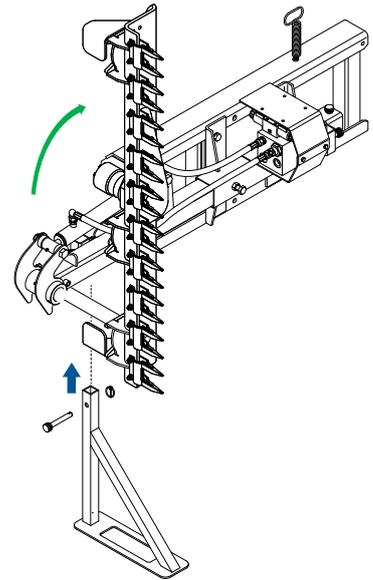
Disconnect the hoses from the auxiliary hydraulic power supply on the parent machine.

Disconnect the diverter valve cable from the control box.

Lift up the mount so that the storage stands can be fitted to the mount from the underside.

Fit one of the stands into the square section bracket behind the diverter valve and secure with lynch pin. **This stand should always face away from the parent machine.**

If the offset mount is to be removed from the mounting frame the second stand is fitted facing towards the parent machine and secure with lynch pin. If the offset mount and the mounting frame are to be removed together the second stand is fitted facing away from the parent machine and secured with lynch pin.



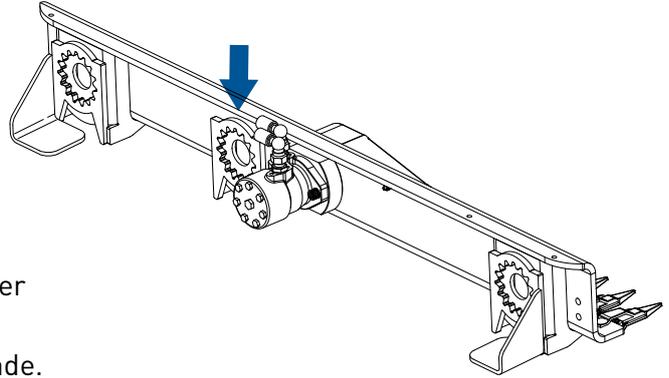
When both stands have been fitted and secured in position place the mount down on its stands and detach from parent machine.

## HEDGE TRIMMER EXTENSION

A 1 metre extension can be fitted to either end of the Hedge Trimmer. Attaching the optional extension provides a combined 2.5m cutting length.

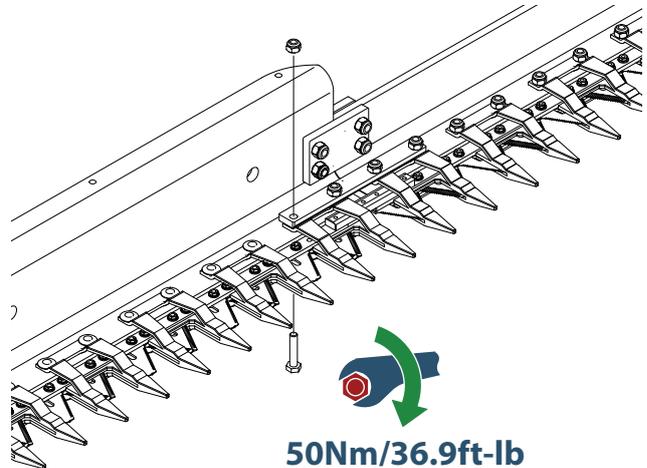
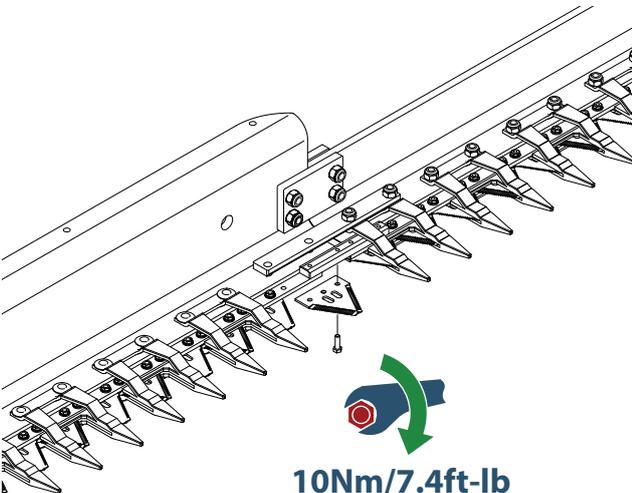
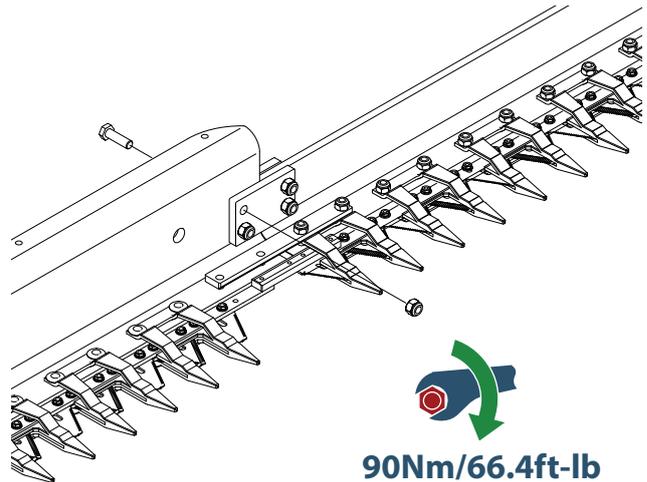
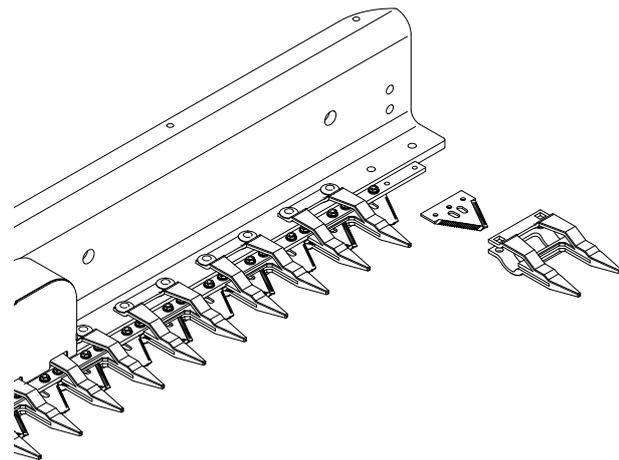


When using the extension the Hedge Trimmer **MUST** be fitted to the parent machine in the centre mount position.



### Fitting extension

1. Remove the two coach bolts from the end finger and remove finger.
2. Remove the two bolts from the last cutting blade.
3. Secure extension to hedge trimmer with two link plates and M12 bolts 90Nm.
4. Using two M6 bolts line up and attach the extension link, blade bar and cutting blade 10Nm and Loctite 243.
5. Refit finger with two M10 Bolts 50Nm.



## WORKING PROCEDURE

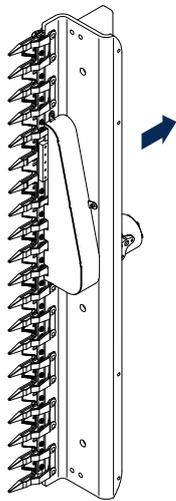
**Operating Practices** - See Page 12 for Safe Operating Practices notes.

**Oil Flow Limitations** - See page 14 for Operating Limitations.

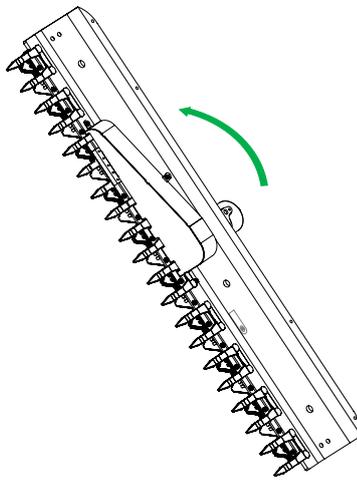
Care should be taken to match movement speed to the maturity and density of the hedge. For best results the operator can use the slewing movement of the parent machine to cut through thick, heavy growth. For finer, lighter cutting of the hedge the operator can use the tracking movement to get the desired finish.



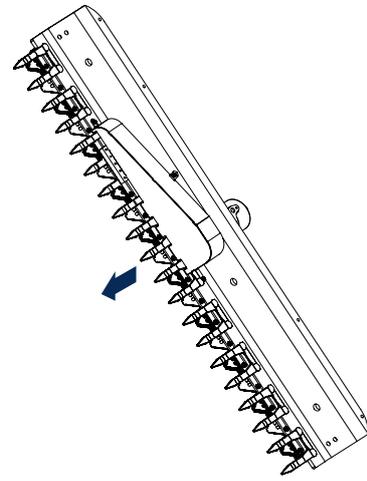
When changing the cutting angle or position of the hedge trimmer adjustments should only be made when the trimmer blades and fingers are not in contact with the hedge. If adjustments are made whilst in contact with the hedge this will result in damage to the blades and fingers.



Reverse away from hedge

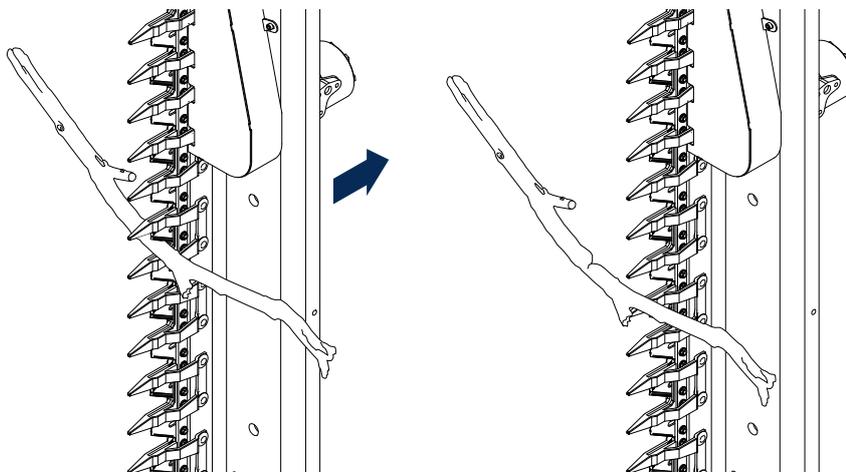


Change cutting angle



Continue cutting

If branches become jammed in the trimmer keep the trimmer running and reverse away from the branch DO NOT change the cutting angle.



If branches become jammed in the trimmer keep the trimmer running and reverse away from the branch DO NOT change the cutting angle.

## MAINTENANCE



**WARNING:** Before any maintenance is carried out on the Hedge Trimmer, make sure the hydraulics and electrics are switched off.

### Daily

- Check that all hydraulic and electrical systems are in good operational order.
- Ensure all bolts are tightened correctly.
- Check for loose, broken, missing or damaged parts.

### General Maintenance

- Always ensure that the parent machine is secure and stable with its engine switched off and hydraulic pipes disconnected before carrying out any maintenance work.
- Make certain all safety devices are in place.
- Check for loose, broken, missing or damaged parts. Replace and repair as necessary. Use only genuine replacement parts.
- Perform all maintenance procedures outlined for the equipment.
- Always protect your hands. Select appropriate gloves when handling the Hedge Trimmer during fitting, removal or adjustment.
- Always protect feet with safety boots.



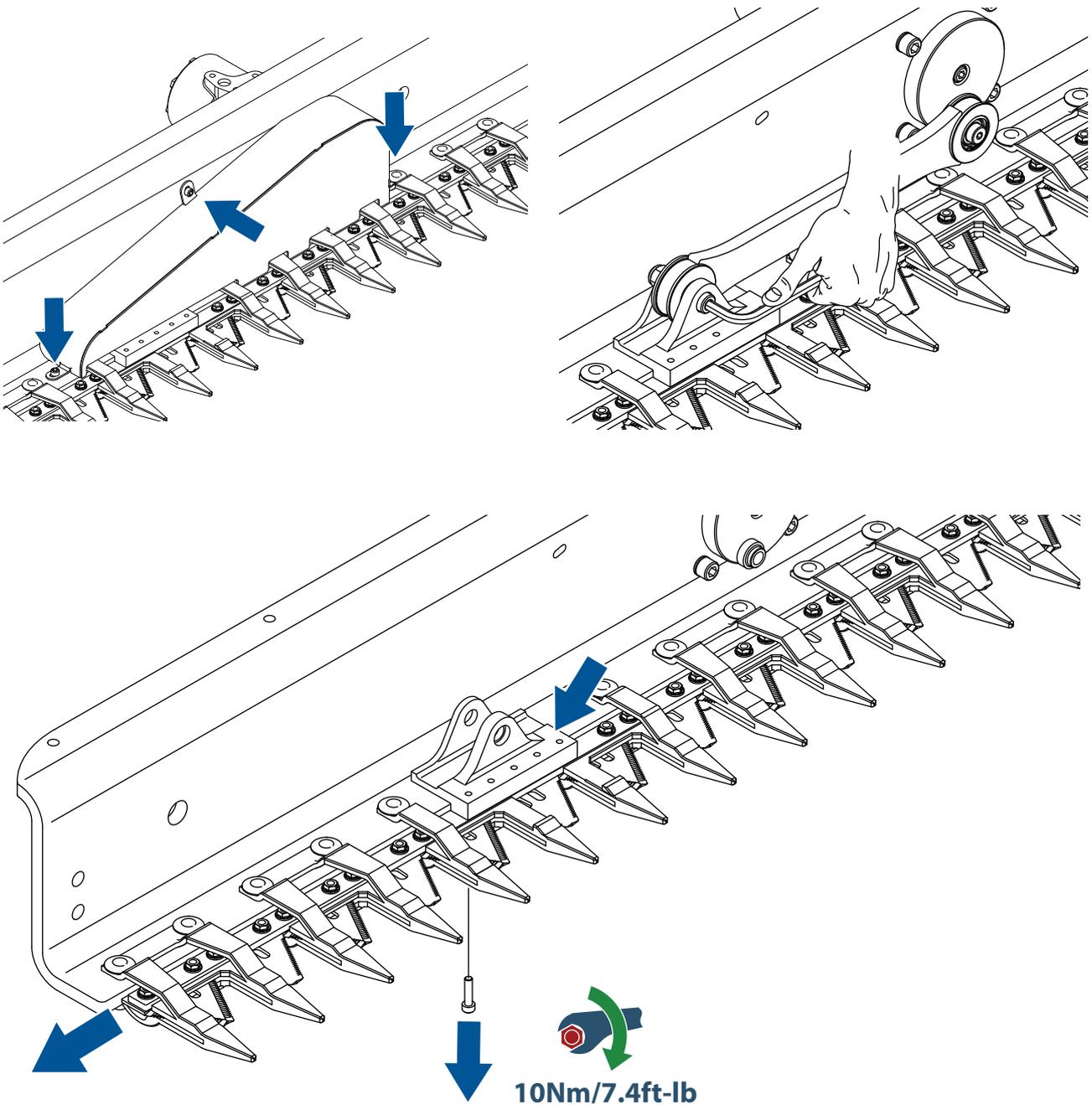
**WARNING:** Hydraulic fluid under pressure can penetrate skin and eyes causing serious personal injury, blindness or death. Fluid leaks under pressure may not be visible. Use a piece of cardboard or wood to locate any leaks – DO NOT use your bare hands.

Wear safety goggles for eye protection. If any fluid is injected into the skin it MUST be surgically removed. SEE A DOCTOR IMMEDIATELY.

Make sure all hydraulic lines are correctly installed. Before applying pressure to the hydraulic system, be sure that all connections are tight and that lines, pipes and hoses are not damaged. Before disconnecting the hydraulic lines, be sure to relieve all pressure in the system.

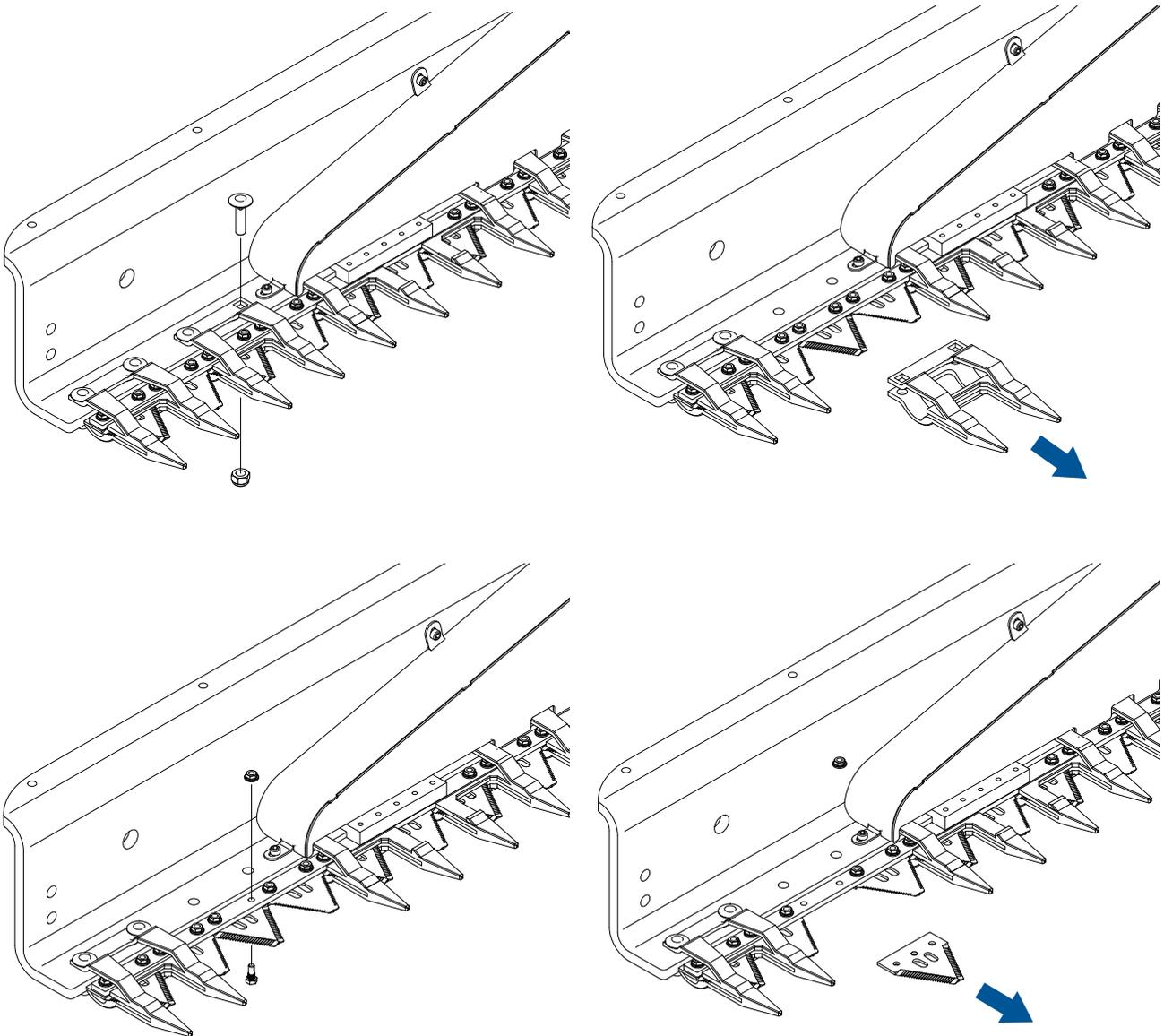
## Removing The Blade Bar

1. Remove the protection cover by removing the three M6 bolts.
2. Undo the M10 bolt connecting the cam link arm to the receiver of the blade. Take care not to misplace the spacer bushings.
3. Undo the five M6 bolts holding the receiver to the blade bar. When the receiver is removed, slide out the blade bar from the cutter. This allows you to carry out any maintenance needed on the blade bar separately from the Hedge Trimmer.
4. Re-fitting is the reverse procedure. Tighten the M6 setscrews to 10 Nm and Loctite 243.



## Replacing A Blade

1. To replace broken or worn blades, first remove the finger section by undoing the two M10 coach bolts.
2. With the coach bolts removed, slide the finger of the trimmer, allowing you access to the desired blade. To remove the blade from the blade bar, undo the two M6 bolts and remove the blade.
3. With the damaged or worn blade removed, replace it with a new item. Insert it into the desired space on the blade bar, replace the M6 bolts and re-tighten to 10Nm, replace the finger section back into position and tighten the two M10 coach bolts to 18Nm.



## TROUBLESHOOTING

**IF IN DOUBT ASK!** - Seek Auger Torque / parent machine dealer for advice & repair.

**BE SAFE** - only use genuine Auger Torque / parent machine spare parts.

<b>MOUNTING BRACKET ASSEMBLY</b>		
<b>FAULT</b>	<b>POSSIBLE CAUSE</b>	<b>ACTION</b>
Mounting bracket does not fit parent machine	<p>Incorrect pin centres</p> <p>Wrong mounting bracket</p> <p>Machine is fitted with a non-standard hitch</p>	Replace with genuine bracket
<b>EXCESSIVE VIBRATION</b>		
<b>FAULT</b>	<b>POSSIBLE CAUSE</b>	<b>ACTION</b>
Excessive vibration during operation	<p>Too much oil flow</p> <p>Worn pins on parent machine</p>	<p>Decrease the revs on the machine</p> <p>Repair or replace any worn pins on the parent machine</p>
<b>CUTTING BAR NOT ENGAGING</b>		
<b>FAULT</b>	<b>POSSIBLE CAUSE</b>	<b>ACTION</b>
Failure of the cutting bar to move	<p>No oil flow</p> <p>Motor seized</p> <p>Blade bar jammed</p>	<p>Check the quick release couplings are engaged with the parent machine</p> <p>Check the parent machine's hydraulic system is operating correctly and has sufficient oil of the correct grade</p> <p>Turn off parent machine and disconnect the hydraulic hoses. Adhering to safety advice, inspect the blade for obstructions, broken parts or tangled wire</p> <p>Contact Auger Torque</p>

## WARRANTY STATEMENT

All Auger Torque products are warranted to be free from defects in materials or workmanship for the periods summarised below:

- Hydraulic Motors - 36 Months
- All Other Parts / Products - 12 Months

The warranty periods will commence from Date of Sale by an authorised Auger Torque Dealer. Evidence of the date of sale may be required and for Hydraulic Motor warranties to be valid the product must be registered with Auger Torque within 4 weeks of the date of sale. Extended Warranty (> 12 months) Products can be registered by returning the Registration Card or completing the form on page 7. This warranty is not transferable beyond the initial purchaser of the product.

A warranty claim should be reported to the Auger Torque Dealer who supplied the unit. The Dealer, with the technical backup of Auger Torque, will make an initial assessment.

The customer is responsible for returning the product for warranty inspection to the original supplying dealer's facility. Parts should not be delivered without the prior agreement of the dealer or Auger Torque.

During the warranty period Auger Torque, at its option, will repair or replace any parts free of charge determined as defective by Auger Torque. Such repairs will be undertaken by Auger Torque or its nominated representative at an Auger Torque facility or a location deemed suitable by Auger Torque. Auger Torque are not liable for any associated costs relating to a warranty failure.

Parts repaired or replaced by Auger Torque are then covered by this warranty for the remainder of the original warranty as if such parts were original parts.

Products or parts which, as determined by Auger Torques examination, show wear from normal use, have been improperly operated, damaged by accident or negligence, altered or modified are not considered defective and are not covered by this warranty.

This warranty is void if any attempt is made to make field repairs unless these have been pre-approved in writing by Auger Torque.

This warranty is void if the products are not serviced in-line with the instructions in the Operators Manual. Particular care should be taken to perform regular oil changes in gearboxes.

This warranty is exclusive and in-lieu of any other expressed warranties. There are no warranties of merchantability or fitness for a particular purpose. Auger Torque shall not be liable for any consequential, incidental or punitive damages, losses or expenses, including those resulting from or caused by any defects.

**As you would expect from Auger Torque, with our extensive experience and product reliability we'll always go the extra mile to keep you working.**





**YOUR DEALER IS**

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