



BROWNS

EST: 1830

Agricultural Machinery Co. Ltd

Manufacturers of Farm Implements & Machinery

WOODWORKER

SAWBENCH

Owners Illustrated Instruction Book & Parts List

Grovebury Road, Leighton Buzzard, Bedfordshire. LU7 4UX. UK.

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EC Declaration of Conformity

Browns Agricultural Machinery Co Ltd declare that the **Browns Woodworker saw bench**, as defined by the Serial Number attached to the machine, conforms with the following Directives and Regulations, and has been certified accordingly.

EC Machinery Directive 2006/42/EC.
The Supply of Machinery (Safety) Regulations 2008.
The Provision and Use of Work Equipment Regulations 1998.

Specifically related harmonised standards are:

EN ISO 12100-1: 2003 (Safety of Machinery).
EN ISO 12100-2: 2003 (Safety of Machinery).
EN ISO 4254-1 : 2005 (Agricultural machinery - Safety).
BS EN 691-1 : Safety of woodworking machines.

THE MANUFACTURER:

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Person empowered to draw up the declaration on behalf of the manufacturer of his authorized representative

Name: David Hanson

Signature:



Job Title: Design & Safety

Employer: Browns Agricultural Machinery

Place of declaration: LU7 4UX

Date of declaration: 12th January 2012

Machine Identification

Enter the relevant data in the following list upon acceptance of the machine.

Serial Number	
Type of Machine	
Machine Width	
Year of Construction	
Delivery Date	
First Operation	
Dealer Name	
Dealer Address	

1.0 Introduction

Congratulations on your purchase of a new Browns machine. In order to correctly use the machine please carefully read this manual. The manual has been written to provide operating and maintenance procedures and related safety information which will allow you to use and maintain this machine in a correct and safe manner.

This operators manual should be regarded as part of the machine. You must ensure that you and anyone else who is operating, maintaining or working with the machine be familiar with the operating and maintenance procedures and related safety information contained in this manual.

Owners must give operating instructions to operators or employees before allowing them to operate this machine. It is the operators responsibility to read and understand all safety and operating instructions in this manual. Remember all accidents can be avoided.

A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes themselves and bystanders to possible serious injury or death.



Caution

This symbol indicates important safety messages in this manual. When you see this symbol, be alert to the possibility of injury to yourself or others, and carefully read the message that follows.

**The most important safety device on the machine is a
safe operator**

1.1 General Information

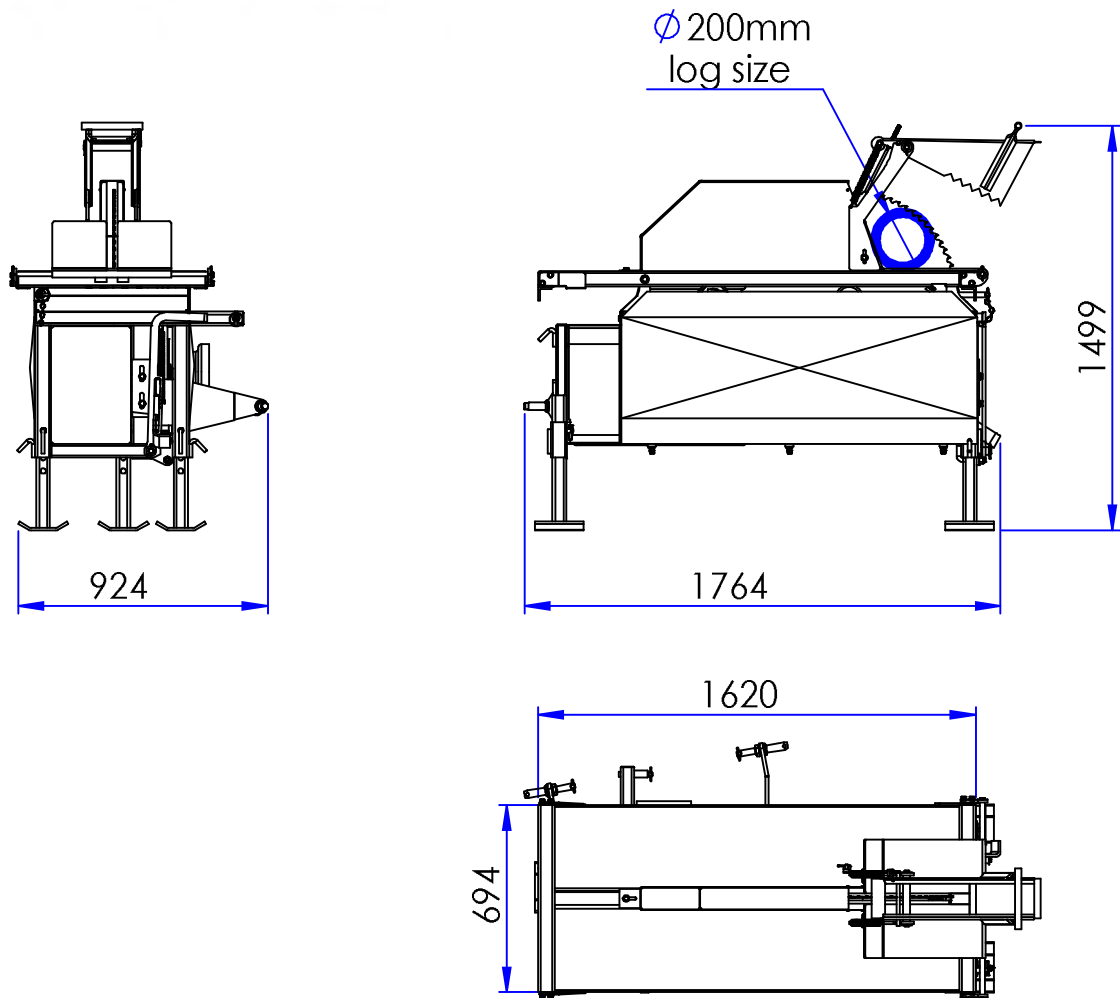
The illustrations and data used in this manual were current at the time of printing, but due to possible engineering or production changes, this product may vary slightly in detail. Browns reserves the right to redesign or change components as may be necessary without notification to anyone.

No liability can be accepted for inaccuracies or omissions in this manual, although every possible care has been taken to make it as complete and accurate as possible.

Throughout this manual, references may be made to,

- **LEFT-HAND SIDE** - the side which is on the left only when an observer is facing in the normal forward direction of travel of the machine, i.e. the operator looking forward from rear of machine.
- **RIGHT-HAND SIDE** - the side which is on the right only when an observer is facing in the normal forward direction of travel of the machine.
- **COMPETENT PERSON** - for any task means a person who has acquired through training, qualifications or experience, or a combination of them, the knowledge and skills to carry out that task.

2.0 Technical Specifications



Maximum log diameter	200 mm
Width	1764 mm
Height	1499 mm
Length	924 mm
PTO speed	540 rpm
Shaft speed	1145 rpm
Blade tip speed	8987 rpm
Blade diameter	760 mm
Max blade thickness	5 mm
Weight	289 kg

2.1 Saw Sharpening

We suggest if you have any problem with a saw blade as to sharpening etc. you contact a Saw Doctor who is a member of the Saw Doctors Association.

Saw Doctors association (0114) 2724748 - www.sdauk.co.uk

With regard to setting of a saw blade we recommend that no more than 0.40" set/ side should be applied to each tooth and this work carried out by a Saw Doctor.

Note: Warranty becomes void if these settings are exceeded.

3.0 Safety Notes & Warnings



Only competent and trained operators should use and maintain the machine. Ensure this manual has been read by every person who is intending to use or maintain it.



Be aware of moving parts on the machine that may cause a crushing hazard to the hands and body.



Study operator manual thoroughly before maintenance is carried out and always turn the tractor off and remove key.



Do not stop the tractor with the PTO shaft in gear.



Never work with a cracked or distorted saw blade.



Check all safety guards are fitted securely before work.



Never operate the sawbench unless properly hitched to the tractor



Do not allow any person to stand inbetween the machine and the tractor unless the machine is lowered to the ground and the tractor is turned off with the key removed



Do not allow saw dust to build up under the saw bench, move regularly to a new position.



Never allow any person to ride on the machine or the tractor (unless there is a passenger seat provided).



Ensure that the tractor is of sufficient size to provide adequate stability when in operation, refer to the tractors operator manual when operating on sloping ground.



Never distract anyone working the saw bench, wait for the operator to notice your presence if you want to contact them.

3.1 Personal Protective Equipment



Protective equipment must be worn at all times when operating the saw bench. Failure to do so may result in serious personal injury.



Depending upon the type of wood being cut, the noise level may exceed 85db and the operators must wear suitable ear protection (complying with EN352).



Cutting wood causes dust and airborne chips which are a danger to eyesight. Suitable eye protection should be worn at all times (safety glasses complying with EN166)



When setting up and moving machinery accidents may be caused to feet. These are minimised by wearing suitable protective footwear with good grip and ankle support (complying with EN ISO 20345:2004)



Wearing well fitting and suitable protective gloves may prevent unnecessary injury to hands and fingers.

3.2 Safe Use

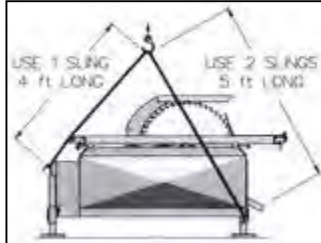


To operate the saw bench in a safe manner the following actions must be carried out and adhered to.

- Work in daylight or artificial light of at least 200 lux.
- Supervise inexperienced operators & provide suitable training & instruction.
- Run the saw bench at 540 rpm on the PTO shaft.
- Have a firm level base for operators feet & the saw bench.
- Check timber for barbed wire, nails, etc.
- Clean off any soil or stones from the timber before cutting.
- Keep blades sharp.
- Adjust the working height for individual operators.

3.3 Woodworker Decals

The decals should be considered part of the machine. Any decal that refers to warnings or hazards must be replaced immediately if it becomes lost or illegible.



Part No.80024



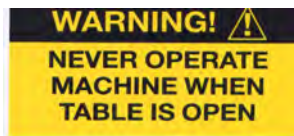
Part No.80002



Part No.80027



Part No.80019



Part No.80055



Part No.80042



Part No.80023



Part No.80020



Part No.80018

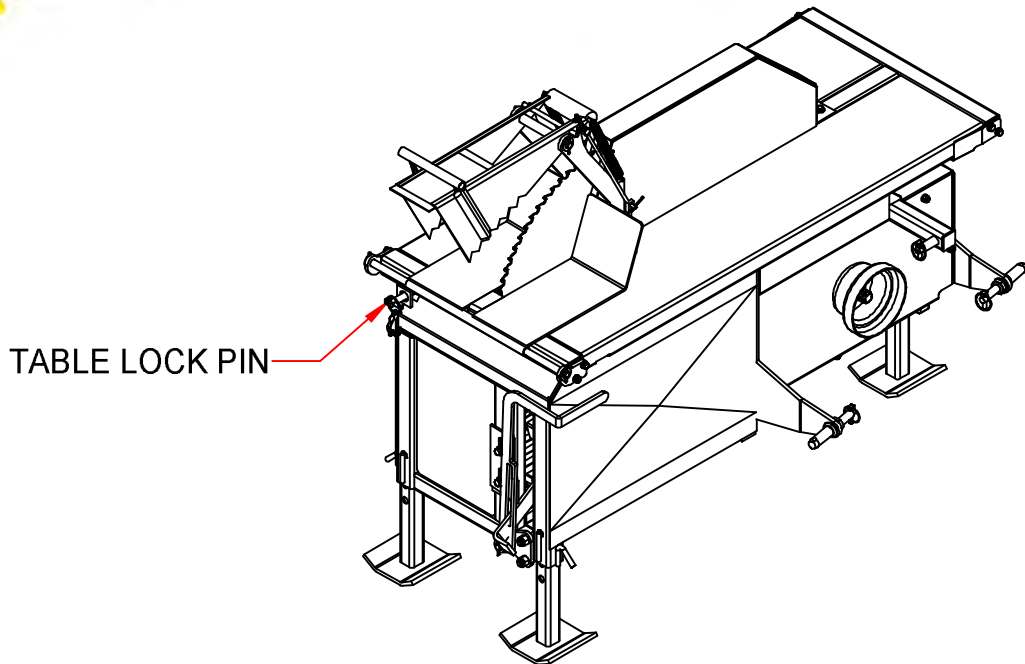


Part No.80004

3.4 Lifting Instructions



The sliding table must be locked by fixing the linch pin into the table lock pin.

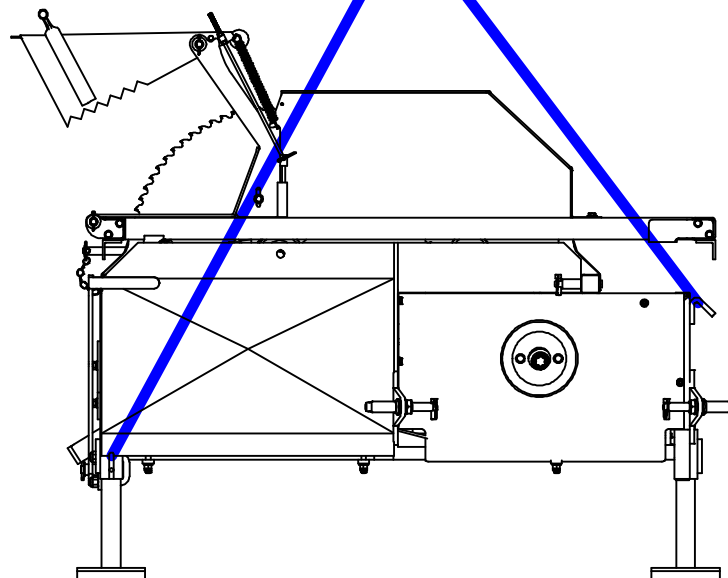


289 kg



TWO SLINGS 5 ft LONG

ONE SLING 4 ft LONG



- The weight of the Woodworker is 289 kg
- Check lifting straps are suitable and are not damaged
- Ensure lifting equipment has sufficient lift capacity
- Connect the slings onto the designated lifting hooks fixed on the Woodworker
- Plan your lift, the lift, travelling and setting down to ensure it is carried out in a safe and competent manor with no risk to the Woodworker or people.

4.0 Intended Use

The Woodworker saw bench is designed for general logging. It fits tractors with category 1 and 2 rear three point linkages with a maximum PTO speed of 540 rpm. This machine complies with current Health and Safety Regulations. It is intended for operation on the tractor rear linkage and PTO drive only.

4.1 Preparation

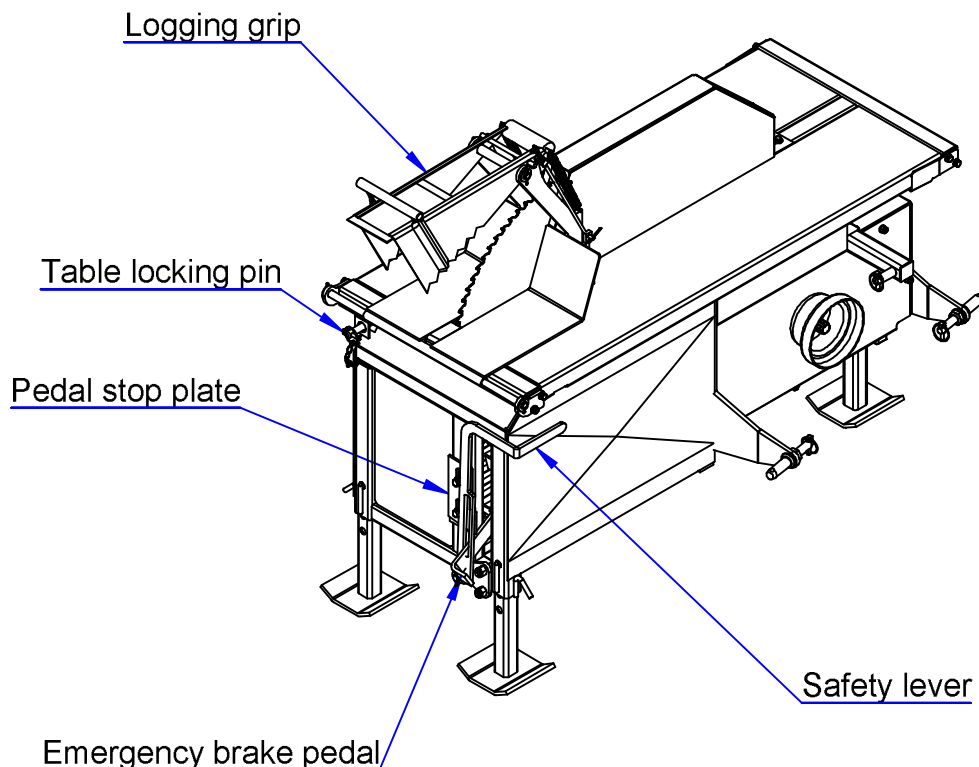
Attach the Woodworker to the tractor three point linkage, making sure the lift arms are in the fixed position, not floating.

Fit the PTO to the drive shaft on the tractor. On some tractors the PTO shaft may have to be shortened, make certain equal amounts are cut off from both sections (check the instructions supplied with the PTO shaft). Ensure the anti-rotation chains are connected to stop the PTO guard from rotating.

Level the saw bench by adjusting the three legs with no tension on the top linkage of the tractor.

Tighten the check chains on the tractors lower link arms to stop the saw bench from swaying when being transported.

The V belts are adjusted by raising or lowering the pedal stop plate. Adjust the tension so that you can depress the belts (at the centre of the unsupported length using reasonable force) from 10 mm to 20 mm. Additional belt adjustment may be obtained by moving the pulley foot to its secondary position as shown.



4.2 Pre-operation checks

- The saw bench must only be used as described in this instruction book and with the guards fitted as supplied.
- All operators of this machinery must have training in all aspects of safety procedures and be instructed to use the correct protective equipment for the work in hand.
- The machine must be set-up on level ground, with access all round, in good lighting conditions.
- The working area immediately around the saw bench and tractor must be kept clear of logs and debris.
- If adjustment is necessary to the saw bench, allow the blade to come fully to rest and disconnect the drive from the tractor before carrying out any changes.



THE SAW BENCH IS FOR CUTTING WOOD ONLY

4.3 Sawing wet or knotty wood

Sometimes when sawing difficult timber the saw jams. The saw blade may have become thermally buckled during the jam. It should be allowed to run freely for a few minutes at normal speed. This practice will normally rectify the blade, under no circumstances should you saw with a buckled blade. If the saw blade does not return to normal remove the blade and take it to a Saw Doctor who should be able to re-tension it.

4.4 Operation

The Woodworker can be used to log up to a diameter of 200 mm with sufficient room under the guard. Two operators will be required for long or heavy timber.



ON NO ACCOUNT MUST GUARDS BE REMOVED TO SAW LARGER LOGS

For logging the sliding table needs to be in the sliding position. Remove the linch pin from the bed lock pin and allow the table to slide out. The table slides out due to the bed spring underneath the top. The bed lock pin should now engage and lock the table in the extended position. This prevents operators from accidentally leaning on the table causing it to move in and expose the blade.

Make certain the guards are all fitted securely and check the blade for sharpness and it is free from cracks. The area for the operators feet must be clear of any obstruction.

Make sure the saw bench is clear and everyone is clear of the saw bench. Start the saw with the tractor running, engage the PTO letting in the clutch slowly.

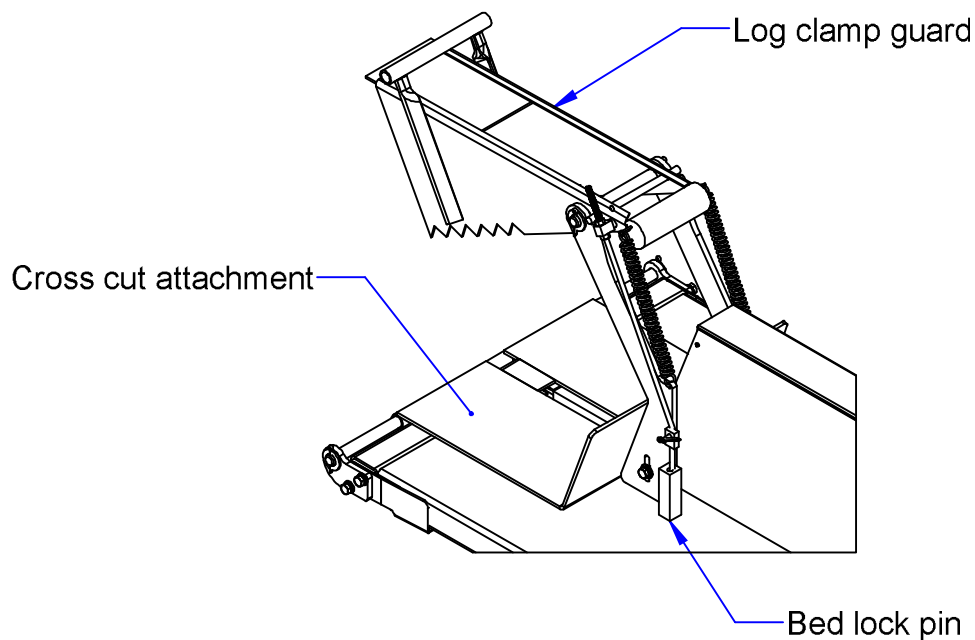
Look out for nails or barbed wire in the timber that may cause jamming, damage to the blade or parts to fly out.

Place the timber against the cross cut attachment assembly, pull down the log clamp guard until the wood is gripped and the bed lock pin has automatically disengaged, then push the table through the blade until the timber has been cut using moderate pressure.

Allow the table to fully return to the rest position so the bed lock pin engages and locks the table. Release the log clamp guard and remove the cut timber.

For the operators comfort the height of the saw bench can be altered by adjusting the legs.

NEVER MAKE ANY ADJUSTMENTS WITHOUT STOPPING THE TRACTOR ENGINE & DISCONNECTING THE PTO & WAIT FOR THE BLADE TO STOP REVOLVING. APPLY THE SAFETY BRAKE TO HOLD THE SAW BLADE & STOP IT FROM ROTATING, REMEMBERING TO THE BRAKE BEFORE STARTING THE SAW BENCH



5.0 Storage

- Store the unit undercover if possible.
- Thoroughly clean and grease the unit before storage to ensure it is in full operating condition when next required.
- Protect and exposed areas against rust. If you need to spray areas with oil, use light biologically degradable oils such as rape oil.
- Store the unit in an area away from human activity.
- Do not park equipment where it will be exposed to livestock. Damage and livestock injury could result.
- Do not allow children to play on or around the stored unit.
- Make sure all parked machines are on a hard, level surface and engage all
- The top of the table and saw blade require light greasing.

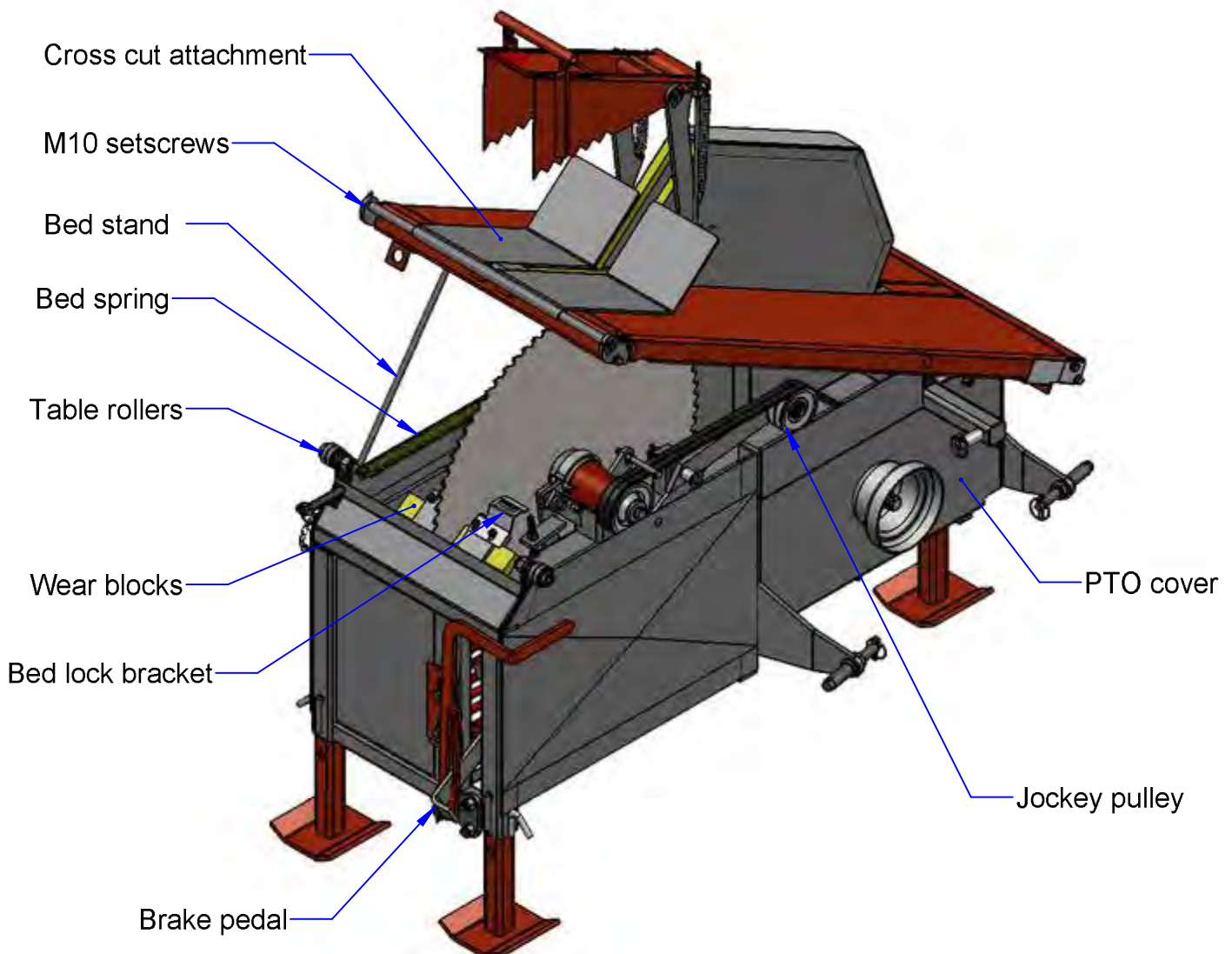
6.0 Maintenance

To carry out maintenance or repairs it will necessary to access the Woodworker main frame.

Before proceeding with any maintenance or adjustments, turn off the tractor and remove the keys. Ensure the Woodworker is resting on its support legs on a firm and level area.

The table is lifted like a bonnet to access the Woodworker.

1. Remove the M10 setscrews from each side of the front corners.
2. Remove the bed guards from either side. These cover the table cut outs.
3. Loosely screw the M10 set screws back to secure the cross cut attachment assembly.
4. Grip the table at the front and move back and forward whilst lifting. The table will lift off the table rollers when they line up with the table cut outs.
5. Lift the table up and support it using the bed stand.
6. Ensure the bed stand is secure in the locating position.
7. Remove the bed spring from the hook on the under side of the table.
8. Reverse the order to assemble.



6.1 Wear block adjustment

Follow the procedure described in the previous chapter. The wear blocks protect the blade from hitting the metal table or frame if it became distorted. The wear blocks should be adjusted as necessary giving a minimum clearance of between 2 to 3 mm. Re-tighten after adjustment.

6.2 Lubrication

All bearings on the Woodworker are completely sealed and can not be lubricated, with the exception of the PTO.

6.3 Replace V belts

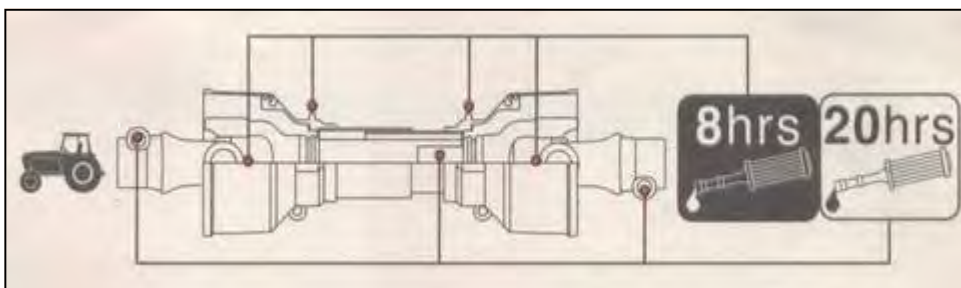
- Raise the table as described in the first section of the maintenance chapter.
- Release the brake pedal which moves the jockey pulley.
- Remove the PTO cover.
- Remove the belts
- Re-assemble
- The V belts are adjusted by raising or lowering the pedal stop plate. Adjust the tension so that you can depress the belts ,at the centre of the unsupported length using reasonable force) from 10 mm to 20 mm. Additional belt adjustment may be obtained by moving the pulley foot to its secondary position as shown.

6.4 Replace the saw blade

- Raise the table as described in the first section of the maintenance chapter.
- Unscrew the blade retaining bolt and retaining cap, left hand thread.
- Lift off the blade using suitable gloves to prevent injury from sharp parts.
- Fit the new blade and re-tighten the blade retaining bolt to 135.4 Nm or 100 lb-ft. Remember to refit the locking washer under the head of the blade retaining bolt.
- The saw bench is designed to take a blade 760 mm in diameter and a maximum thickness of 5mm.
- Replacement blades must comply with EN 847-1.

6.5 PTO shaft

The PTO requires greasing periodically as shown below.



6.6 Brake band adjustment

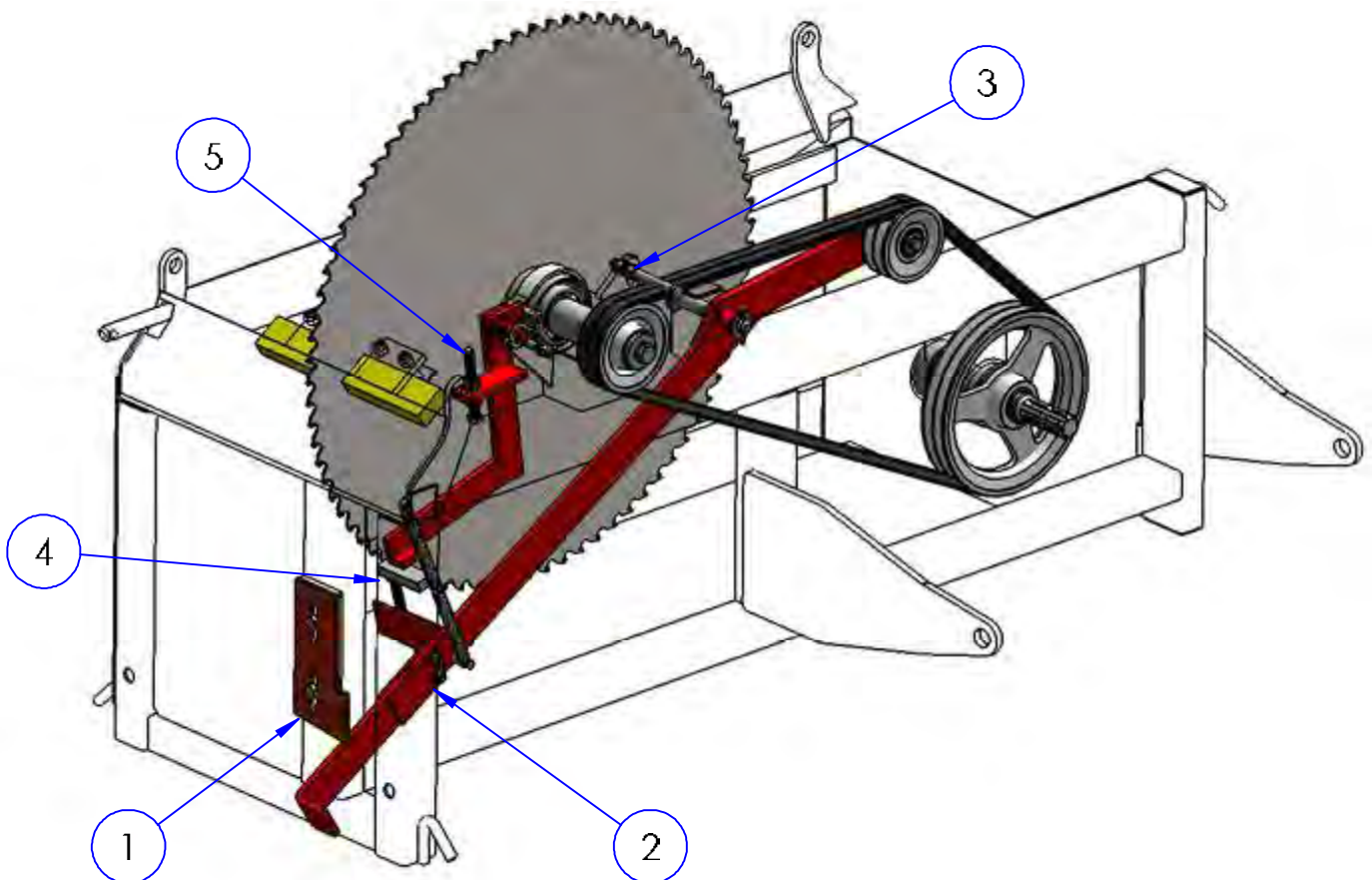
The saw blade shaft has a brake drum and brake band assembly. This acts as an emergency temporary stop. By tripping the belt pedal arm spring pressure moves the arm up, this moves the jockey to release tension on the V belts, and the V belts then can slip on the blade shaft pulley. The pedal arm at the same time pushes onto the brake arm bracket which engages the brake band onto the brake drum. These two actions hold the blade stationary.

DO NOT USE THE BRAKE BAND AS A GENERAL STOP, ALWAYS DISCONNECT THE PTO.

To set the system to work correctly they are various adjustments that can be made, refer to diagram below:

1. Belt tension can be adjusted by moving the pedal stop plate up or down.
2. Further belt tension can be made by altering the hole position on the pulley arm foot.
3. When the jockey pulley is disengaged a bolt stops the V belts from jumping off, this can be adjusted up or down.
4. The stop on the pedal arm that engages the brake arm can be adjusted to increase or decrease the brake band movement.
5. An adjustable bolt is mounted on the brake arm bracket to hold the brake band open when not activated.

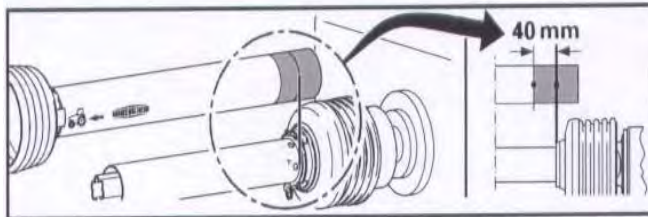
In normal working conditions the blade should be free to rotate and there should be no friction from the brake band. When activated the blade should be held and not rotate as long as the V belts can slip on the pulleys.



0.0 Shortening the PTO shaft

The PTO shaft comes with its own manufacturer's instruction booklet, please read this carefully before altering or fitting the shaft.

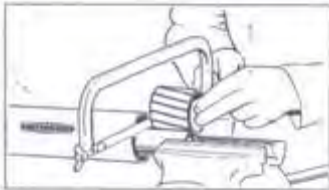
Due to many different types of tractors, it may be necessary to shorten the PTO shaft. In case shortening is needed, listed below are some basic guidelines on performing this modification.



Pull the shaft halves apart and hold them next to each other in the shortest operating position of the tractor and the implement. Mark the outer guard tube as shown.



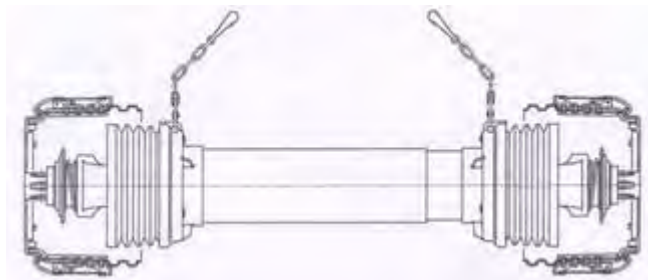
Shorten the inner and outer guard tubes equally.



Shorten the inner and outer sliding profiles by the same length as the guard tubes.



Round off all sharp edges and remove burrs. Grease the sliding profiles.



ALL ROTATING PARTS MUST BE GUARDED

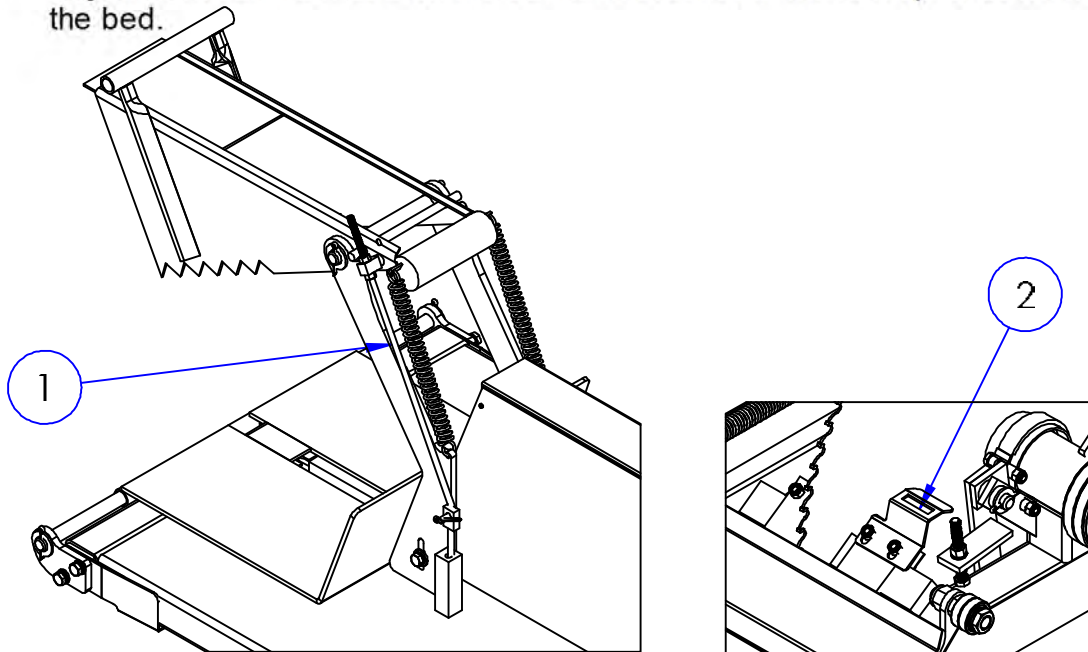


Contact with a rotating driveline can cause death or serious injury. The tractor master shield, the driveline guards, and the implement input connection shields form an interactive guarding system. Chains must be fitted so as to allow sufficient articulation of the shaft in all working positions.

6.8 Table lock

The sliding table should automatically lock when in operation, the lock pin is lifted by depressing the log grip guard. The purpose of the table lock pin is to avoid operators from moving the table and exposing the saw blade accidentally. If the pin does not lock or release correctly then adjustment must be made.

1. Adjustment can be made on the connecting rod to move the pin up or down.
2. Adjustment can be made on the bed lock bracket to move it up or down from the bed.



7.0 Tightening torques and spanner sizes

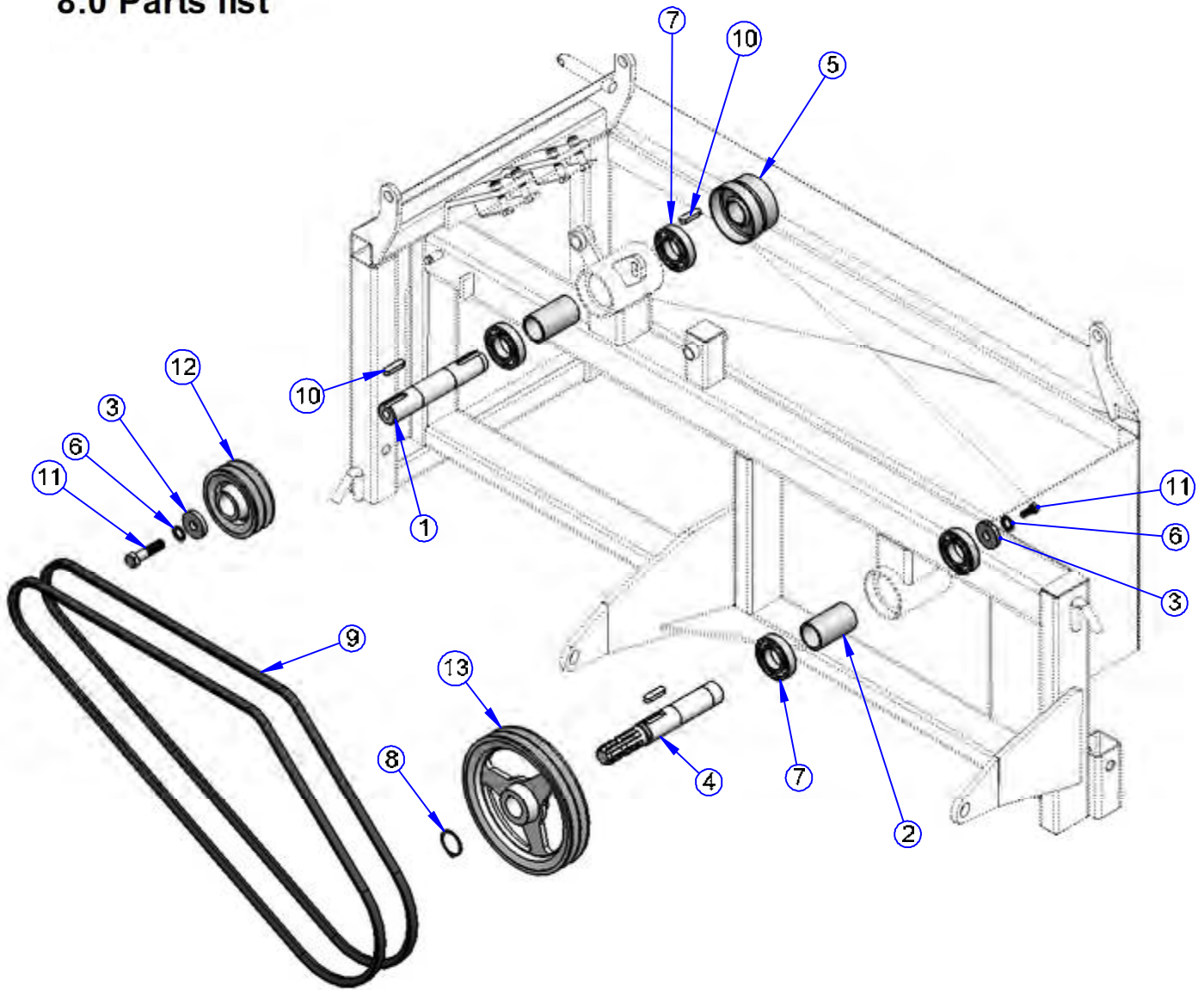
Size	Grade 8.8				Grade 10.9				Grade 12.9				Spanner Sizes mm
	lubricated (1)		dry (2)		lubricated (1)		dry (2)		lubricated (1)		dry (2)		
	Nm	lb-ft	Nm	lb-ft	Nm	lb-ft	Nm	lb-ft	Nm	lb-ft	Nm	lb-ft	
M6	9	6.5	11	8.5	13	9.5	17	12	15	11.5	19	14.5	10
M8	22	16	28	20	32	24	40	30	37	28	47	35	13
M10	43	32	55	40	63	47	80	60	75	55	95	70	17
M12	75	55	95	70	110	80	140	105	130	95	165	120	19
M14	120	88	150	110	175	130	225	165	205	150	260	190	22
M16	190	140	240	175	275	200	350	255	320	240	400	300	24
M18	260	195	330	250	375	275	475	350	440	325	560	410	27
M20	375	275	475	350	530	400	675	500	625	460	800	580	30
M24	650	475	825	600	925	675	1150	850	1075	850	1350	1000	36
M30	1300	950	1650	1200	1850	1350	2300	1700	2150	1600	2700	2000	46

(1) "lubricated" means that the screws are treated with a lubricant such as engine oil, or that phosphated or oiled screws are used.

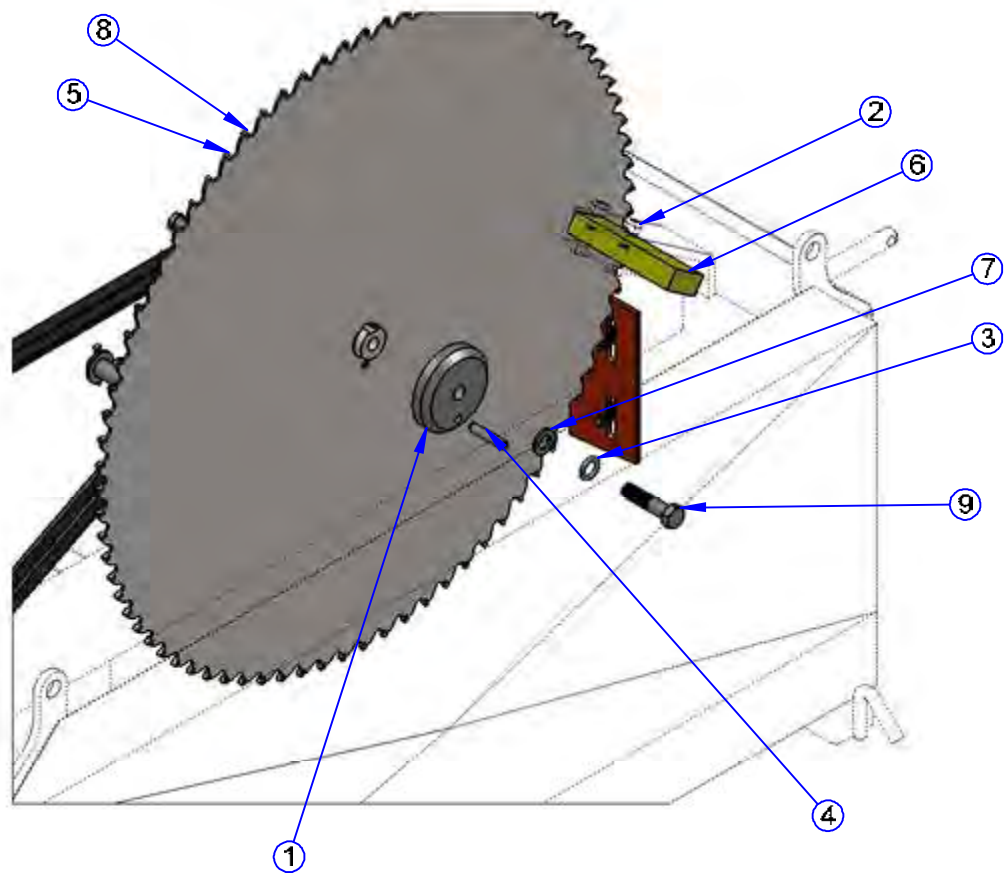
(2) "dry" means that normal or galvanized screws without any lubrication are used.

The tightening torques listed above are for reference values. They apply provided that operating instructions do not specify other tightening torques for certain screws or nuts.

8.0 Parts list



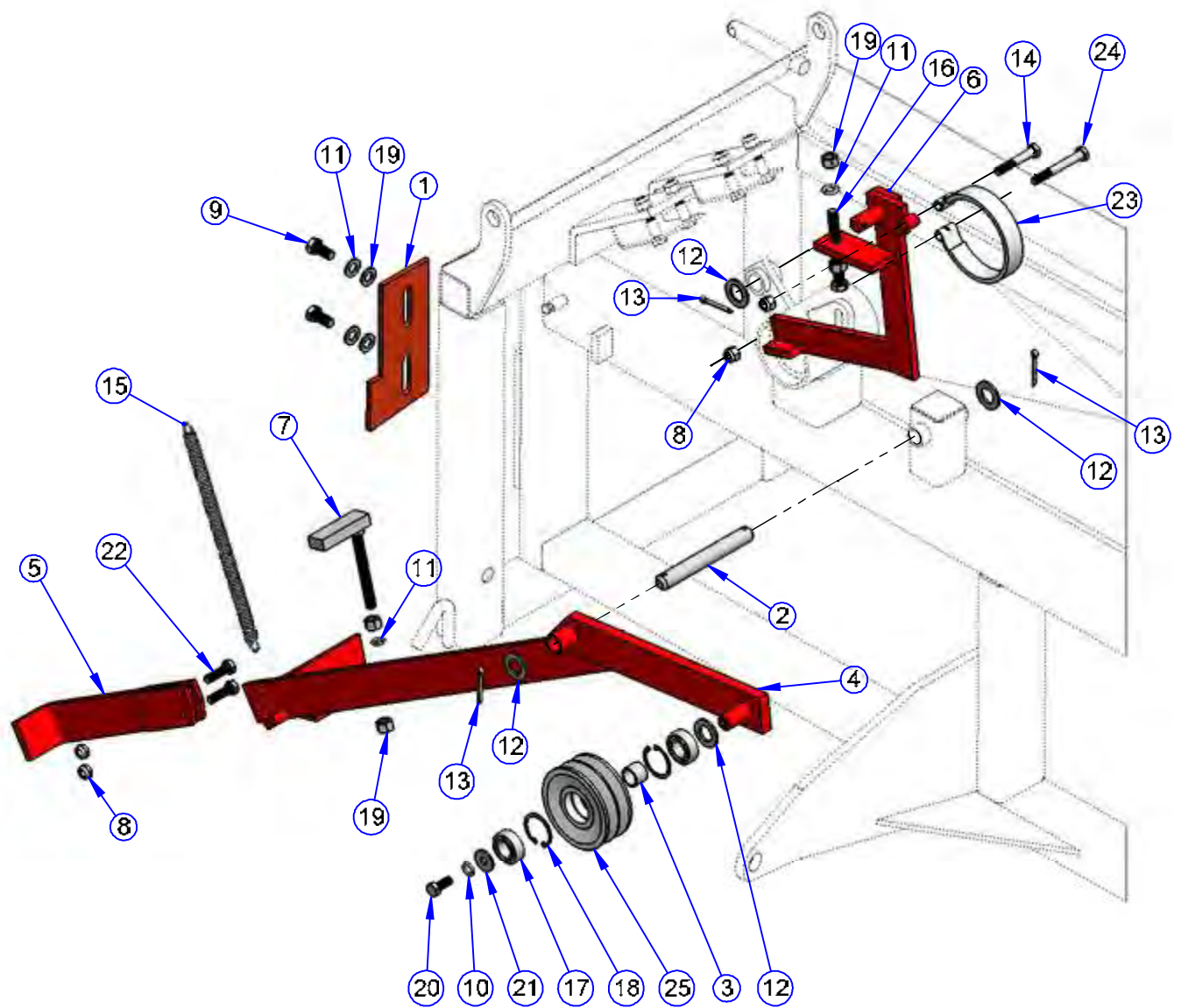
DRIVE LINE PARTS			
Item	Part No.	Description	Qty.
1	13857	BLADE SHAFT	1
2	13859	SHAFT SPACER	2
3	13860	SHAFT WASHER	2
4	13863	BOTTOM SHAFT	1
5	52338	BRAKE DRUM / CLAMP	1
6	70134	M16 SPRING WASHER	2
7	70654	BEARING (80 od x 40 id)	4
8	70657	EXTERNAL CIRCLIP 40mm	1
9	70664	BELT XPB 2120	2
10	70667	ROUND END FEATER KEY	3
11	70731	M16 (8.8) Plastic Insert BOLT x 50	2
12	71531	BLADE PULLEY	1
13	71532	PTO PULLEY	1



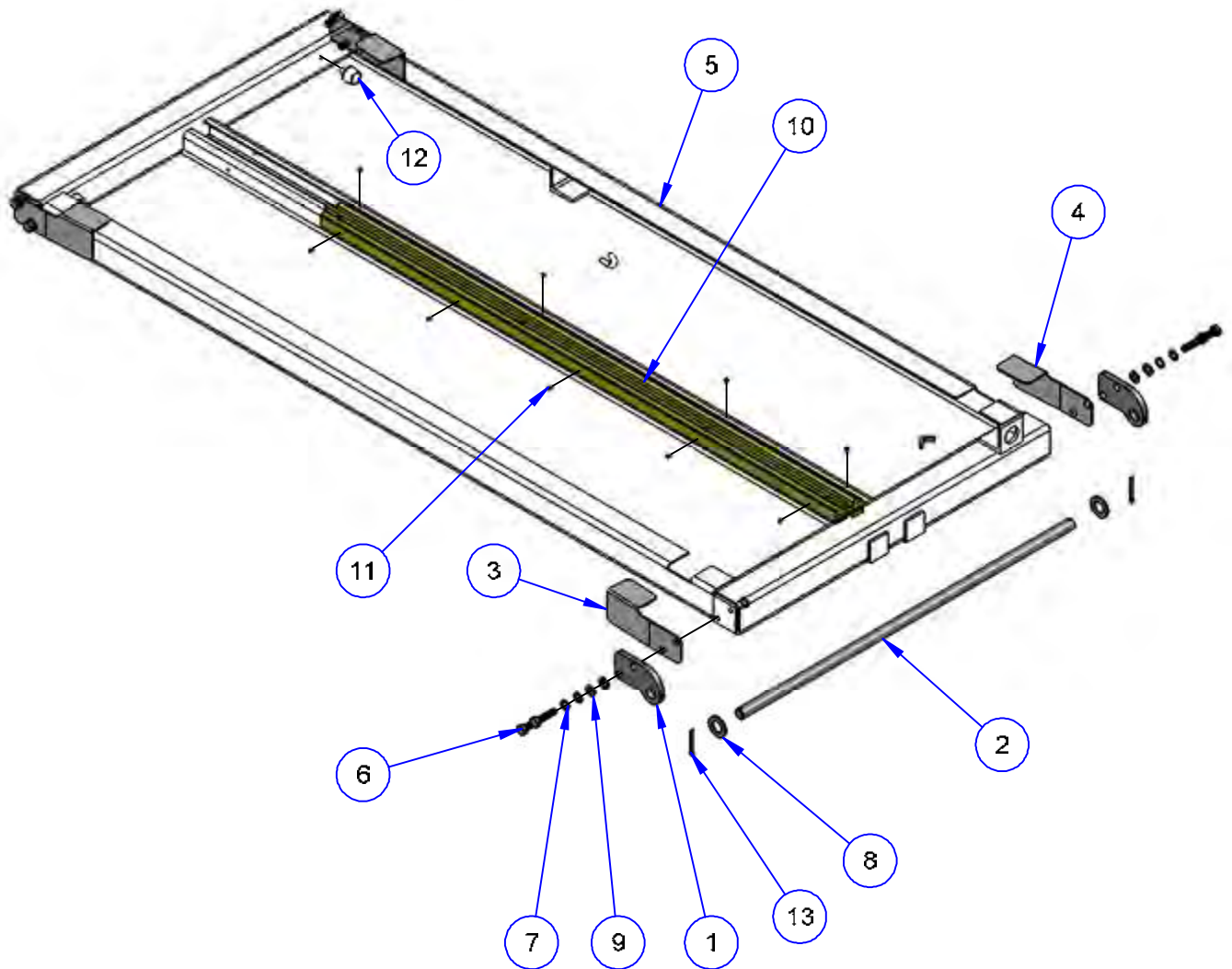
SAW BLADE & WOOD GUIDE			
Item	Part No.	Description	Qty.
1	13856	BLADE CLAMP	1
2	70011	M10 NYLOCK NUT	4
3	70134	M16 SPRING WASHER	1
4	70313	ROLL PIN 10 x 50	1
5	70653	BLADE 30in STANDARD	1
6	70668	WOOD BLADE SUPPORT	2
7	70726	M16 HVY FLAT WASHER	1
8	70802	BLADE 30in CARDIBE TIPPED	1
9	70804	M16 (8.8) Plastic Insert Left Hand x 65	1



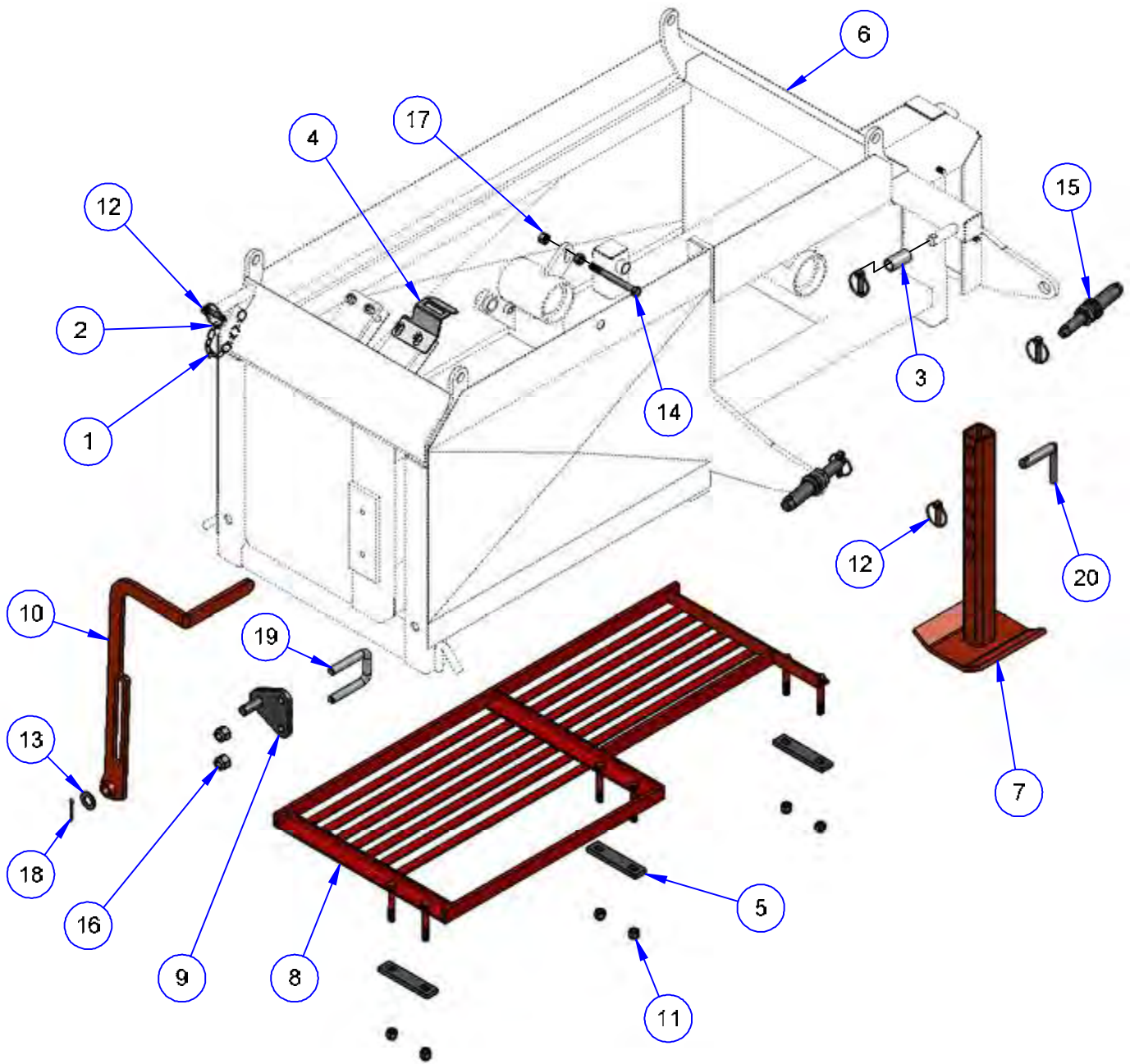
The blade bolt (part 70804) is an M16 left hand thread. The bolt should be tightened to 100 lb-ft or 135.4 Nm. Always remember to refit the spring washer under the bolt.



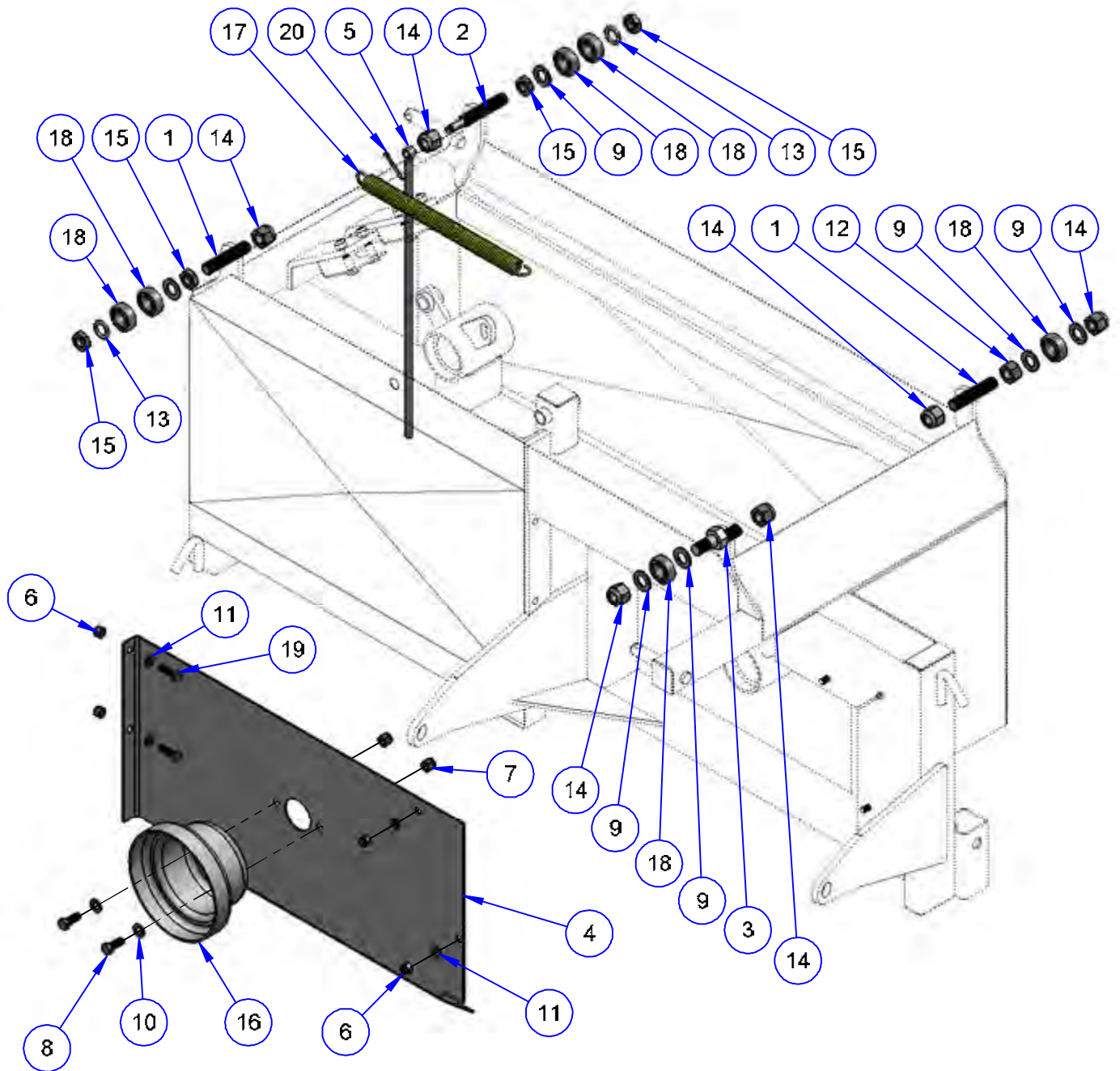
BELT PEDAL & BRAKE ASSEMBLY			
Item	Part No.	Description	Qty.
1	13797	PEDAL STOP	1
2	13799	JOCKEY PIN	1
3	13897	JOCKEY PULLEY SPACER	1
4	51706	BELT PEDAL	1
5	52036	PULLEY ARM FOOT	1
6	52337	BRAKE ARM	1
7	52339	STOP	1
8	70011	M10 NYLOCK NUT	4
9	70025	M12 (8.8) SETSCREW x 25	2
10	70060	M10 SPRING WASHER	1
11	70064	M12 SPRING WASHER	4
12	70073	M20 LIGHT WASHER	3
13	70133	COTTER PIN 3/16 x 1 1/2	3
14	70145	M10 (8.8) BOLT x 65	1
15	70190	SPRING	1
16	70192	M12 (8.8) SETSCREW x 100	1
17	70665	BEARING	2
18	70679	INTERNAL CIRCLIP d42	2
19	70725	M12 PLAIN NUT	4
20	70752	M10 (8.8) SETSCREW x 25	1
21	70817	M10 WASHER od25	1
22	70911	M10 (8.8) BOLT x 35	2
23	71355	BRAKE BAND	1
24	71445	M10 (8.8) BOLT x 90	1
25	71533	PULLEY JOCKEY	1



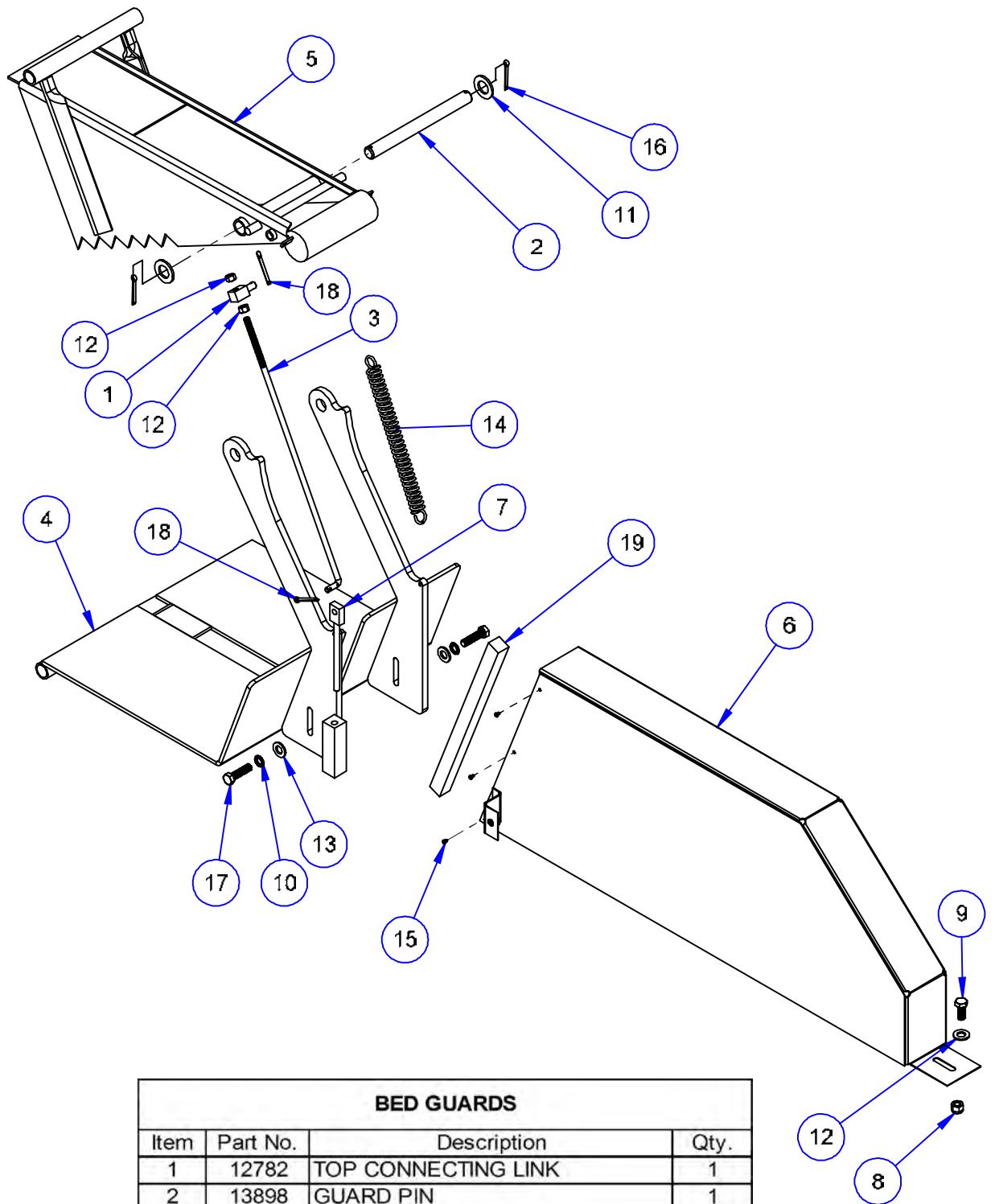
BED ASSEMBLY			
Item	Part No.	Description	Qty.
1	13838	FRONT SHAFT SUPPORT	2
2	13839	FRONT SHAFT	1
3	17259	BED GUARD RH	2
4	17260	BED GUARD LH	2
5	51695	BED	1
6	70058	M10 (8.8) SETSCREW x 30	8
7	70060	M10 SPRING WASHER	8
8	70073	M20 WASHER	2
9	70236	M10 WASHER	8
10	70650	WOOD STIP	2
11	70651	COMBI SCREW No.6 3/4 lg	18
12	70675	RUBBER STOP	4
13	70803	COTTER PIN 5/32 x 1 1/4	2



MAINFRAME COMPONENTS			
Item	Part No.	Description	Qty.
1	11372	CHAIN 12g x 150mm	1
2	11374	SPLIT RING	1
3	13771	SLEEVE	1
4	17229	BED LOCK	1
5	17236	LOWER GUARD CLAMP	3
6	51686	MAIN FRAME	1
7	51704	LEG	3
8	53346	LOWER GUARD	1
9	53348	LEVER BRACKET	1
10	53349	LEVER	1
11	70012	M12 NYLOCK NUT	6
12	70033	LINCH PIN 7/16 R	6
13	70073	M20 WASHER	1
14	70146	M12 (8.8) BOLT x 120	1
15	70660	PIN LOWER LINKAGE	2
16	70342	M16 NYLOCK NUT	2
17	70725	M12 PLAIN NUT	2
18	70803	COTTER PIN 5/32 x 1 1/4	1
19	71655	U BOLT M16 x 50 SHS	1
20	71969	LEG PIN	3



BED ROLLERS & PTO COVER			
Item	Part No.	Description	Qty.
1	13830	ROLLER SHAFT SHORT	2
2	13831	ROLLER SHAFT LONG	1
3	13832	ROLLER SHAFT OFFSET	1
4	13833	PTO GUARD	1
5	51713	BED STAND	1
6	70011	M10 NYLOCK NUT	4
7	70012	M12 NYLOCK NUT	2
8	70025	M12 (8.8) SETSCREW x 25	2
9	70073	M20 WASHER	6
10	70136	M12 WASHER	2
11	70236	M10 WASHER	4
12	70321	M20 FLAT NUT	1
13	70324	M20 SPRING WASHER	2
14	70412	M20 NYLOCK NUT	6
15	70549	M20 HALF NUT	4
16	70662	PTO SHAFT GUARD	1
17	70663	BED SPRING	1
18	70666	BEARING	6
19	70911	M10 (8.8) BOLT x 35	2
20	71359	COTTER PIN 5/32 x 3/4	1



BED GUARDS			
Item	Part No.	Description	Qty.
1	12782	TOP CONNECTING LINK	1
2	13898	GUARD PIN	1
3	17228	LINK	1
4	51703	CROSS CUT ATTACHMENT	1
5	51866	GUARD	1
6	52586	MAIN GUARD	1
7	53347	BED PIN	1
8	70011	M10 NYLOCK NUT	1
9	70024	M10 (8.8) SETSCREW x 25	1
10	70060	M10 SPRING WASHER	2
11	70073	M20 WASHER	2
12	70165	M8 FLAT NUT	2
13	70236	M10 WASHER	3
14	70334	SAW GUARD SPRING	2
15	70651	COMBI SCREW No.6 x 3/4 lg	6
16	70803	COTTER PIN 5/32 x 1 1/4	2
17	70911	M10 (8.8) BOLT x 35	2
18	71359	COTTER PIN 5/32 x 3/4	2
19	71927	WOOD STRIP	2

0.0 Noise Declaration



AIRBOURNE NOISE EMISSION WAS TAKEN WITH THE TRACTOR RUNNING AT 540 rpm AND WITH THE SAWBENCH RUNNING.

THE WORKPIECE BEING ROUND PINE WITH A DIAMETER OF 200mm.

AIRBOURE NOISE EMISSION = 88db (MEASURED VALUE)
ASSOCIATED UNCERTAINTY K = 2db

MEASUREMENT MADE IN ACCORDANCE WITH EN150 3744.

The figures quoted are emission levels and are not necessarily safe working levels. Whilst there is a correlation between emission and exposure levels, this can not be used reliably to determine whether or not further precautions are required. Factors that influence the actual level of exposure of the workforce include the characteristics of the work room, the other sources of noise etc, for example the number of n machines and other adjacent processes. This information, however, will enable the user of the machine to make a better evaluation of the hazard and risk.

The Control of Noise at Work Regulations 2005

The Noise Regulations 2005 require employers to prevent or reduce risks to health and safety from exposure to noise at work. Employees have duties under the Regulations too.

The Regulations require you as an employer to:

- assess the risks to your employees from noise at work;
- take action to reduce the noise exposure that produces those risks;
- provide your employees with hearing protection if you cannot reduce the noise exposure enough by using other methods;
- make sure the legal limits on noise exposure are not exceeded;
- provide your employees with information, instruction and training;
- carry out health surveillance where there is a risk to health.

lower exposure action values:

- daily or weekly exposure of 80 dB;
- peak sound pressure of 135 dB;

upper exposure action values:

- daily or weekly exposure of 85 dB;
- peak sound pressure of 137 dB

10.0 Dismantling & disposal

When the machine has come to the end of its useful life it should be dismantled and disposed of in a safe and environmentally friendly manner.

It is very important not to leave the machine in a state that could be dangerous for people or the environment.

Waste oil must be collected and disposed of in accordance with local regulations.

Never pour used oil into drains or onto the floor.

Worn tyres and rubber parts must be disposed of by a licensed waste disposal company.



Protect the environment and ensure contaminated parts or waste oil are always disposed of or cleaned in safe and environmentally friendly manner.

11.0 Warranty Guidelines

The period of liability for warranty relating to our products is 12 months. The warranty period shall become effective upon installation of the machine with the end user. All wearing parts are excluded from the warranty.

Warranty will only be given if the machine has been used for the purpose indicated in this manual and the original specification of the machine has not been subject to unauthorised modification.

All warranty claims must be submitted the Browns via the dealership you purchase the machine from.

All warranty work must be carried out by authorised Browns dealers using original parts.

11.1 Modifications

Your Browns machine should not be modified or altered unless officially authorised by Browns. Any modifications will make the machine out of warranty and will make the declaration of conformity for the machine void.

However, if it is necessary to carry out modifications, then all modifications must be done by a competent person, based on a risk assessment. It is important to emphasise that the competent person who undertakes the modification assumes the role of the designer and manufacturer. All safety features must be retained in the modified machine.



Safety instructions must be reviewed after all modifications are carried out and revised where necessary.