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INTRODUCTION

Thank you for choosing this Timberwolf brushwood chipper. Timberwolf chippers are designed to give safe and dependable service if operated according to the instructions.

Before using your new chipper, please take time to read this manual which contains
IMPORTANT HEALTH AND SAFETY INFORMATION
and explains the chipper controls. Failure to do so could result in:

- personal injury
- equipment damage
- damage to property
- a member of the general public becoming injured

This manual covers the operation and maintenance of the Timberwolf PTO 100G. All information in this manual is based on the latest product information available at the time.

All the information you need to operate the machine safely and effectively is contained within pages 3 to 10. Ensure that all operators are **adequately trained** for operating this machine, especially with regard to **safe working practices**.

Timberwolf's policy of constantly improving their products may involve major or minor changes to the chippers or their accessories. Timberwolf reserves the right to make changes at any time without notice and without incurring any obligation.

Due to improvements in design and performance during production, there may be minor discrepancies, in some cases, between the actual chipper and the text in this manual.

The manual should be considered a permanent part of the machine and should remain with it if the machine is resold.

Always follow safe operating and maintenance practices

CAUTION or WARNING

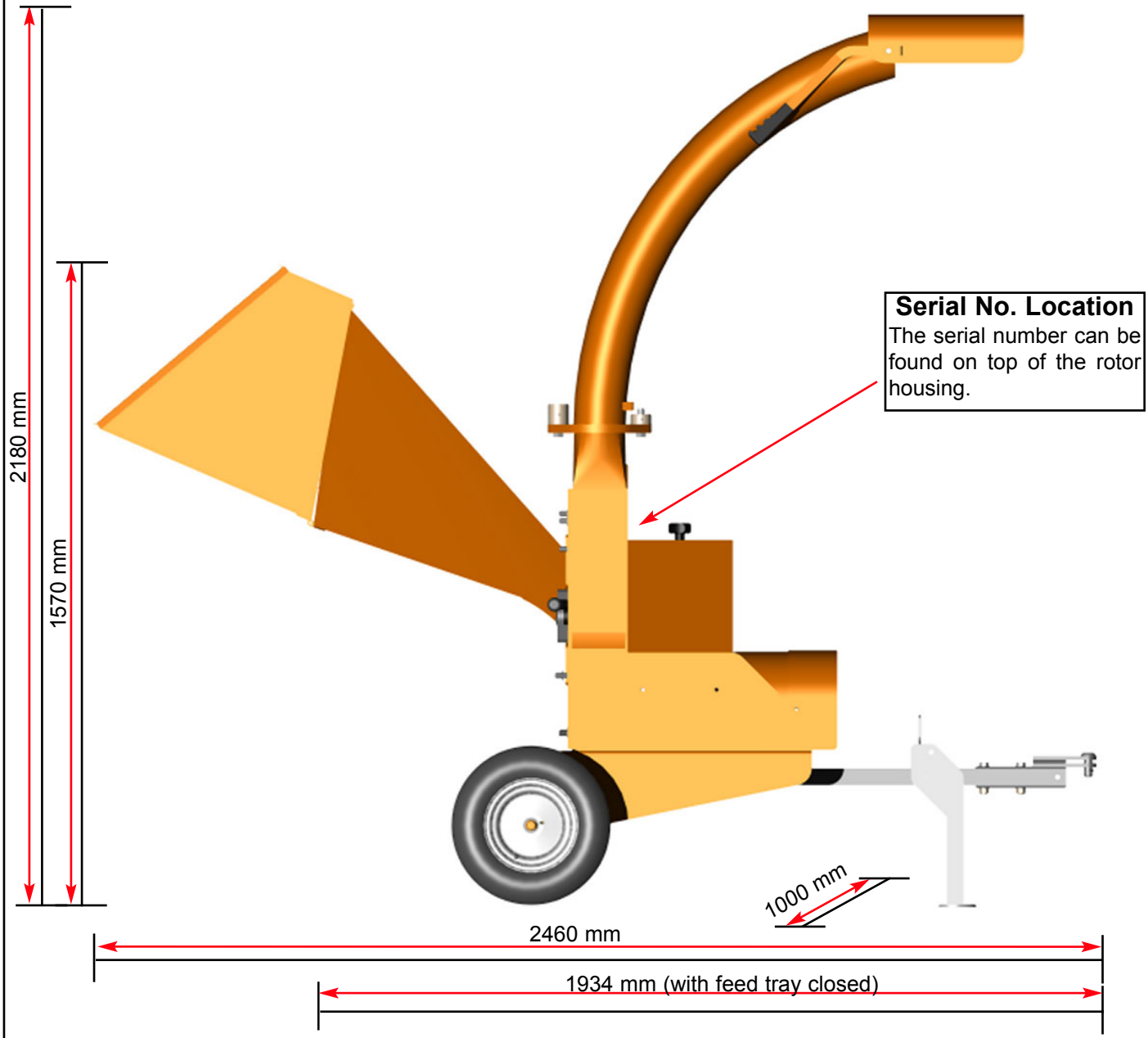
Be aware of this symbol and where shown, carefully follow the instructions

This caution 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.

PURPOSE OF MACHINE

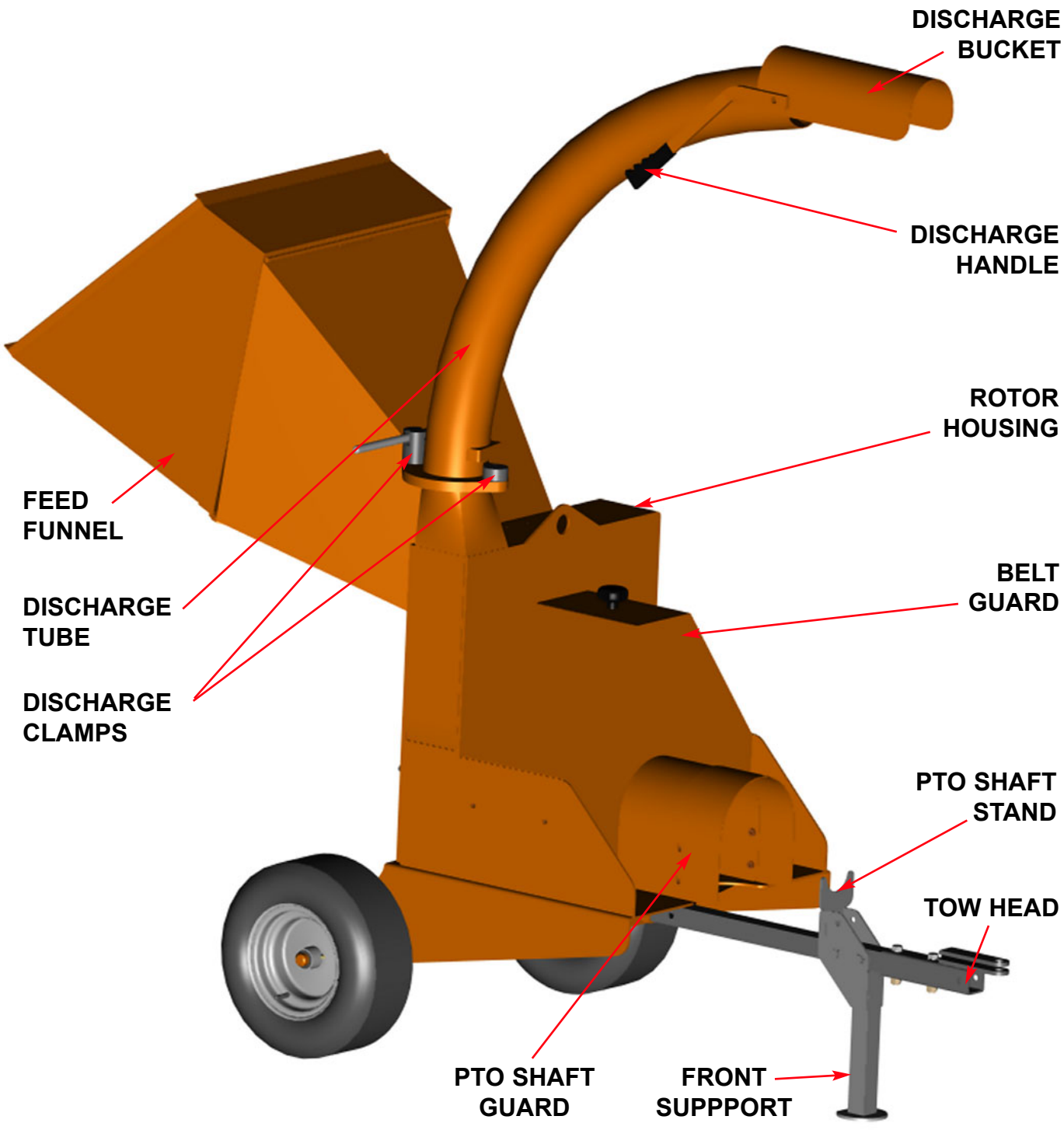
The Timberwolf PTO 100G brushwood chipper is designed to chip solid wood material up to 100 mm in diameter. It is capable of chipping over 1 tonne of brushwood per hour.

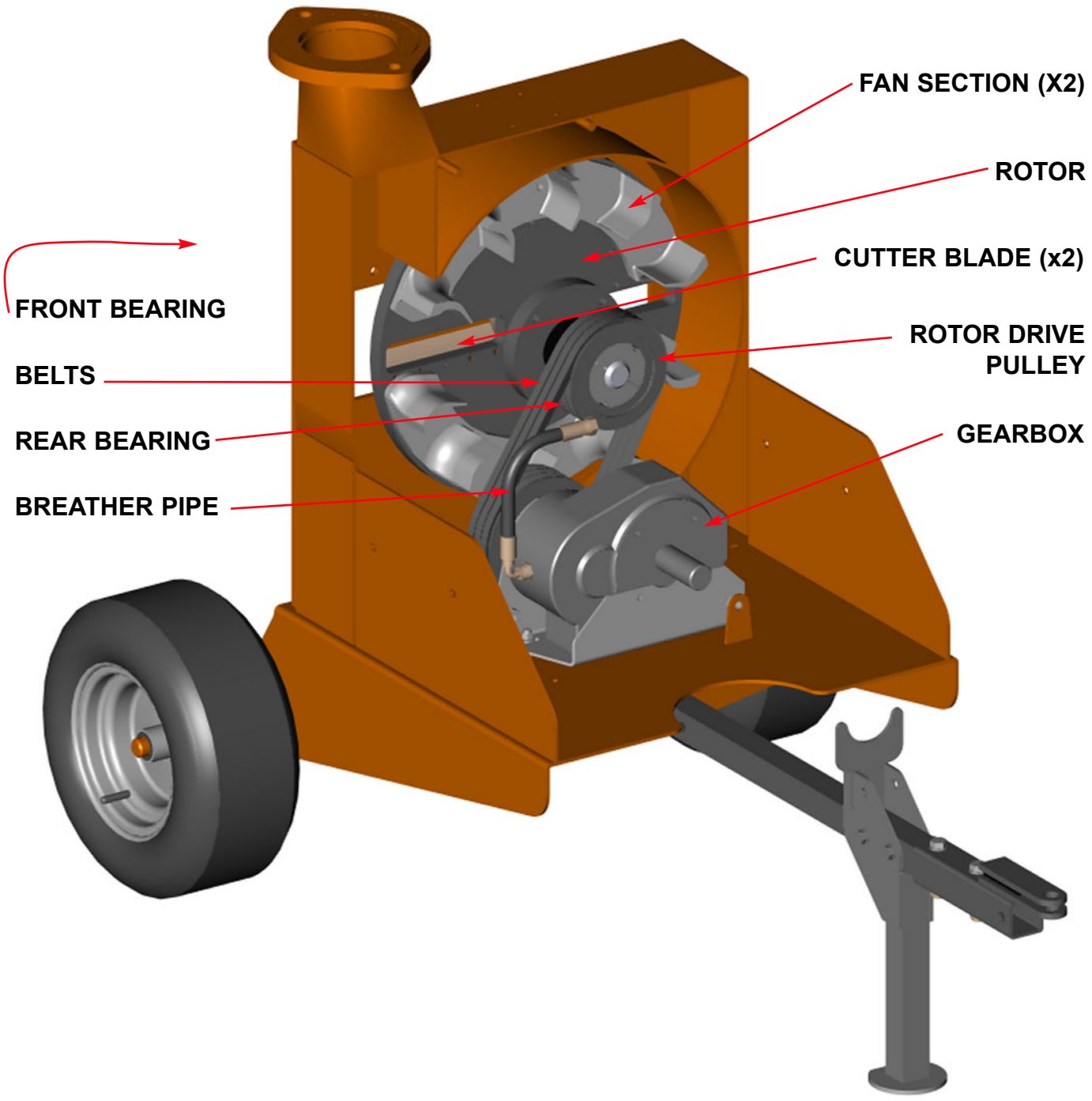
DIMENSIONS



TIMBERWOLF PTO 100G SPECIFICATION

Power source	*Tractor PTO drive*
Overall weight	*268 kg*
Type of feed	*Gravity*
Maximum diameter material	*100 mm (4")*
Material processing capacity	*1 tonne/hr*
Required engine power	*18 - 40hp*


DISCHARGE BUCKET
DISCHARGE HANDLE
ROTOR HOUSING
FEED FUNNEL
BELT GUARD
DISCHARGE TUBE
DISCHARGE CLAMPS
PTO SHAFT STAND
TOW HEAD
PTO SHAFT GUARD
FRONT SUPPPORT

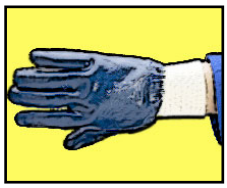

FAN SECTION (X2)
ROTOR
CUTTER BLADE (x2)
ROTOR DRIVE PULLEY
GEARBOX
FRONT BEARING
BELTS
REAR BEARING
BREATHER PIPE

WARNING

The chipper will feed material through on its own. To do this, it relies on sharp blades on the chipper rotor. To keep the blades sharp, only feed the machine with clean brushwood. DO NOT put muddy/dirty wood, roots, potted plants, bricks, stones or metal into the chipper.

OPERATOR'S PERSONAL PROTECTIVE EQUIPMENT REQUIRED

Chainsaw safety helmet fitted with mesh visor and recommended ear defenders to the appropriate specifications.



Work gloves with elasticated wrist.

Steel toe cap safety boots.

Close fitting heavy-duty non-snag clothing.

Face mask if appropriate.

DO NOT
wear rings, bracelets, watches, jewellery or any other items that could be caught in the material and draw you into the chipper.

BASIC WOODCHIPPING SAFETY

The operator should be aware of the following points:

- MAINTAIN A SAFETY EXCLUSION ZONE around the chipper of at least 10 metres for the general public or employees without adequate protection. Use hazard tape to identify this working area and keep it clear from debris build up. Chips should be ejected away from any area the general public have access to.

- HAZARDOUS MATERIAL - Some species of trees and bushes are poisonous. The chipping action can produce vapour, spray and dust that can irritate the skin. This may lead to respiratory problems or even cause serious poisoning. Check the material to be chipped before you start. Avoid confined spaces and use a facemask if necessary.

- BE AWARE when the chipper is processing material that is an awkward shape. The material can move from side to side in the funnel with great force. If the material extends beyond the funnel, the brash may push you to one side causing danger. Badly twisted brash should be trimmed before being chipped to avoid thrashing in the feed funnel.

- BE AWARE that the chipper can eject chips out of the feed funnel with considerable force. Always wear full head and face protection.

- ALWAYS work on the side of the machine furthest from any local danger, e.g. not road side.

GENERAL SAFETY MATTERS

DO'S AND DON'TS

ALWAYS stop the chipper engine before making any adjustments, refuelling or cleaning.

ALWAYS check machine has stopped rotating and remove chipper ignition key before maintenance of any kind, or whenever the machine is to be left unattended.

ALWAYS check machine is well supported and cannot move.

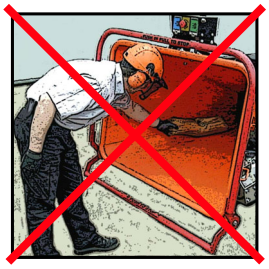
ALWAYS run with the engine set to maximum speed.

ALWAYS check (visually) for fluid leaks.

ALWAYS take regular breaks. Wearing personal protective equipment for long periods can be tiring and hot.

ALWAYS keep hands, feet and clothing out of feed opening, discharge and moving parts.

ALWAYS use the next piece of material or a push stick to push in short pieces. Under no circumstances should you reach into the funnel.



ALWAYS keep the operating area clear of people, animals and children.

ALWAYS keep the operating area clear from debris build up.

ALWAYS keep clear of the chip discharge tube. Foreign objects may be ejected with great force.

ALWAYS ensure protective guarding is in place before commencing work. Failure to do so may result in personal injury or loss of life.

ALWAYS use chipper in a well ventilated area - exhaust fumes are dangerous.

DO NOT use chipper unless available light is sufficient to see clearly.

DO NOT use or attempt to start the chipper without the feed funnel, belt guard, guards and discharge unit securely in place.

DO NOT start the chipper running unless properly guarded.

DO NOT stand directly in front of the feed funnel when using the chipper. Stand to one side.

DO NOT allow -

BRICKS STRING CLOTH PLASTIC STONES

METAL GLASS RUBBER ROOTS BEDDING PLANTS

- to enter the machine, as damage is likely.

DO NOT smoke when refuelling. Petrol/diesel fuel is explosive!

DO NOT let anyone who has not received instruction operate the machine.

DO NOT climb on the machine at any time.

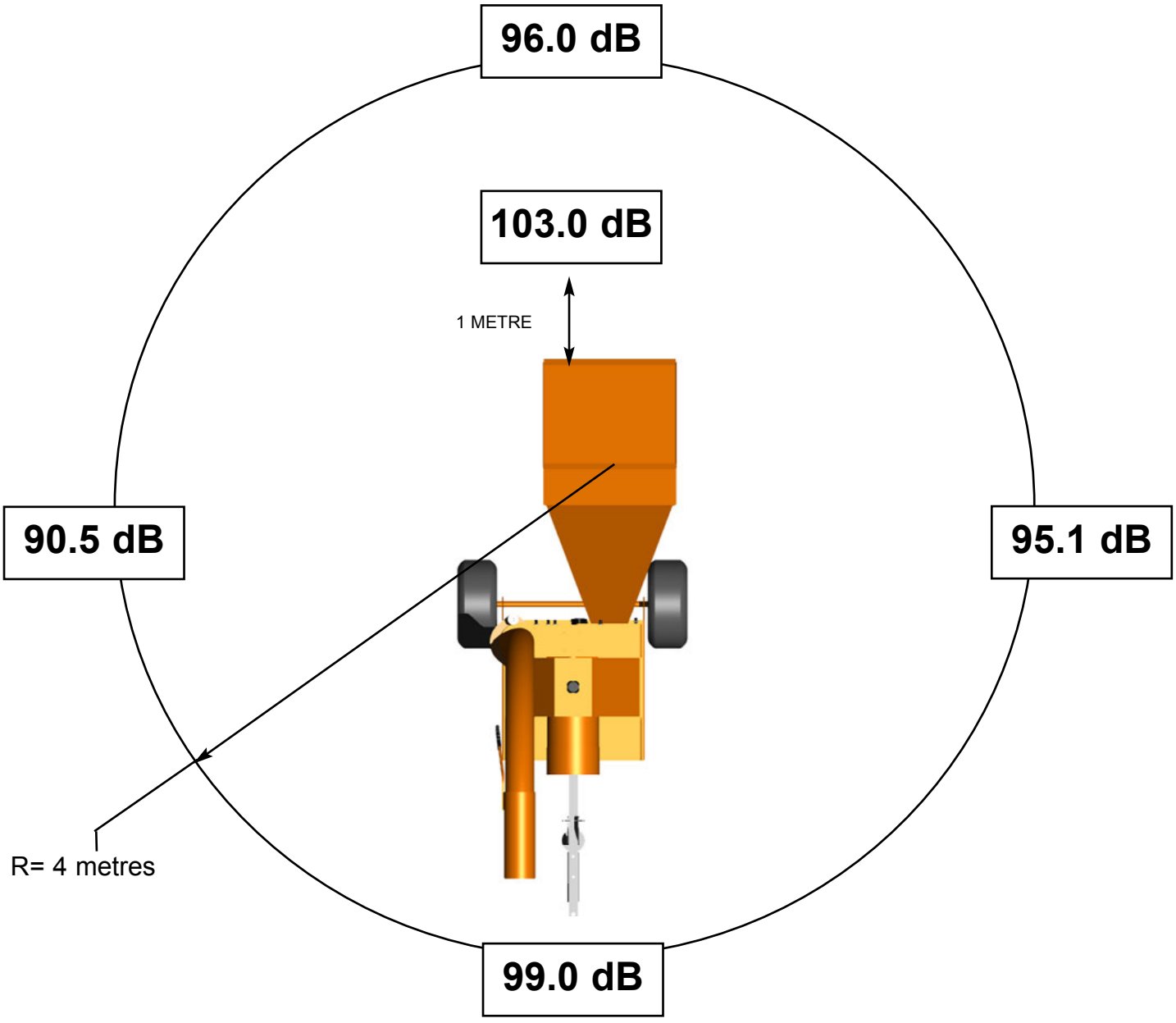
DO NOT handle material that is partially engaged in the machine.

DO NOT touch any exposed wiring while machine is running.

NOISE TEST

MACHINE:	PTO 100G
NOTES:	TESTED CHIPPING GREEN CONIFER 25 MM-40 MM

Noise levels between 85 and 103dBA will be experienced at the working position. Wear ear defenders at all times to prevent possible damage to hearing. All persons within a 4 metre radius must also wear good quality ear defenders.



DELIVERY

All Timberwolf PTO 100G *machines have a full pre - delivery inspection before leaving the factory and are ready to use. Read and understand this instruction manual before attempting to operate the chipper. In particular, read pages 5 -7 which contain important health and safety information and advice.*

OPERATOR'S PERSONAL PROTECTIVE EQUIPMENT REQUIRED

- CHAINSAW safety helmet fitted with visor and recommended ear defenders to an appropriate specification.
- HEAVY-DUTY gloves with elasticated wrist area.
- CLOSE - FITTING heavy-duty non-snag clothing.
- SAFETY footwear.
- FACE MASK (if appropriate).

See page 5 for more detailed information.

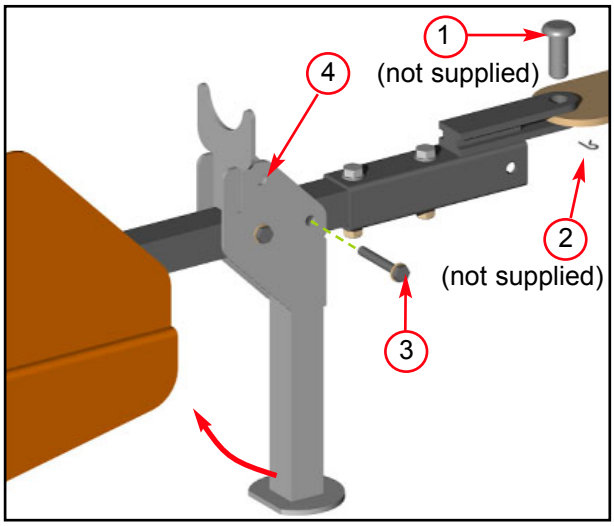
SAFE TRANSPORTATION

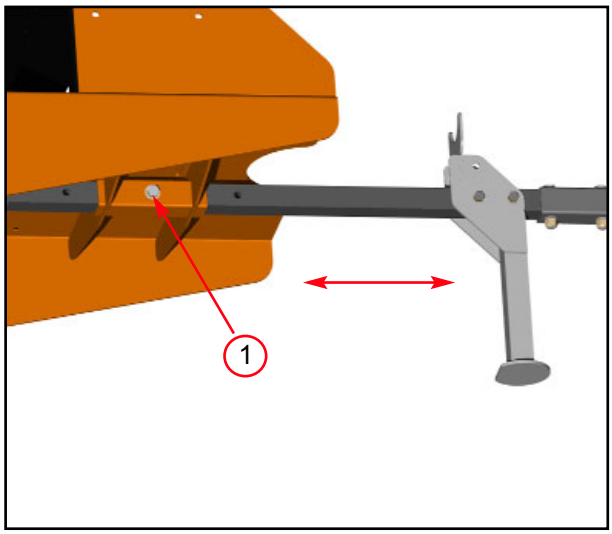
- THE PTO 100G chipper may be transported as a unit or with the feed funnel removed.
- TAKE care when loading the PTO 100G as it is 268kg in weight.
- STRAP the chipper down firmly before beginning a journey.

HITCHING UP

The PTO 100G is fitted with a pin type hitch. It is suitable for use with a range of compact tractor fittings. The chipper tow head is fitted onto the tractor coupling for use with a steel pin (1) which is dropped through the hole. This should be retained with an R clip (2) for security.

The front leg that keeps the chipper level and provides support for the propeller shaft is movable. After hitching to a tractor and fitting the prop shaft the bolt (3) can be removed and the leg swung horizontal. The bolt is then refitted in hole shown (4).





The first time a tractor is fitted to the chipper the correct length of tow beam needs to be set. The length corresponds to the exact propeller shaft that is to be used. Adjustment is made underneath the chipper. Remove the M12 bolt from underneath the chassis (1) and slide the bar until the desired length is reached. Replace the bolt and tighten.

CONNECTING PTO SHAFT

ALWAYS ENSURE THE TRACTOR IS TURNED OFF BEFORE FITTING OR REMOVING PROP SHAFT.

When fitting a PTO shaft it should always be remembered that 100 mm of overlap is required between the two sections of the shaft. This is the minimum needed to ensure the shaft does not fail.

To connect the PTO shaft follow the instructions supplied with the shaft. The shaft should remain fitted to the chipper at all times. It can be placed on the prop shaft support when the tractor is removed.

DAILY CHECKS BEFORE STARTING

- LOCATE the machine on firm level ground.
- CHECK all guards are in place.
- CHECK the discharge unit is pointing in a safe direction.
- CHECK the feed funnel to ensure no objects are inside.

For parts location see diagrams on pages 3 & 4.

STARTING TO CHIP

WARNING

Do not use or attempt to start the chipper without the protective guarding and discharge unit securely in place. Failure to do so may result in personal injury or loss of life.

- CHECK that the chipper is running smoothly.
- STAND to one side of the feed funnel.
- PROCEED to feed material into the feed funnel.

CHIPPING

Wood up to 100 mm in diameter can be fed into the feed funnel. Enter it into the funnel butt end first. Release the material before it engages the rotor. Some pieces of wood may move around significantly while being chipped.

The wood will be drawn into the cutting blade quite quickly, be ready for this to happen. Stand well clear.

A piece of wood which is too tough or too large for the chipper will slow the engine down. When this happens it is possible to hold back the branches that are being chipped and allow the engine to regain its speed again.

If a piece of wood gets stuck in the funnel and it cannot be chipped due to its size or shape, it will need to be removed. Trim the branch until it is a suitable shape for the chipper to accept.

BLADE WEAR

The most important part of using a wood chipper is keeping the cutter blades sharp. The PTO 100G is fitted with two 177 mm (7") blades. They are 42 mm wide when new.

A new blade should chip between 5 and 10 tonnes of material before sharpening. This figure will be drastically reduced by feeding the machine with stony, sandy or muddy material.

As the blades become blunt the machine reduces the feed speed. The discharge will stop being so cleanly cut and have more stringy shreds in it. At this point the blades should be sent to a reputable blade sharpening company. The blades can be sharpened several times during their life. A wear mark on the reverse side indicates the safe limit of blade wear. Replace when this line is exceeded.

BLOCKAGES

Always be aware that what you are putting into the chipper must come out. If the chips stop coming out of the discharge tube but the chipper is taking material in - STOP IMMEDIATELY. Continuing to feed material into a blocked machine may cause damage and will make it difficult to clear.

If the chipper becomes blocked proceed as follows:

- STOP the tractor and remove the keys.
- REMOVE the discharge tube. Check that it is clear.
- WEARING gloves, reach into the rotor housing and scoop out the debris causing the blockage.

WARNING

Do not reach into the rotor housing with unprotected hands. There are sharp blades and any small movement of the rotor may cause serious injury.

- REPLACE the discharge tube.
- RESTART the engine and increase to full speed.
- ALLOW machine time to clear excess chips still remaining in rotor housing before you continue feeding brushwood. Feed in a small piece of wood while watching to make sure that it comes out of the discharge. If this does not clear it, repeat the process and carefully inspect the discharge tube to find any obstruction.

NOTE

Continuing to feed the chipper with brushwood once it has become blocked will cause the chipper to compact the chips in the rotor housing and it will be difficult and time consuming to clear.

AVOID THIS SITUATION - WATCH THE DISCHARGE TUBE AT ALL TIMES.

THE FOLLOWING PAGES DETAIL ONLY *BASIC* MAINTENANCE GUIDELINES SPECIFIC TO YOUR CHIPPER.

THIS IS NOT A WORKSHOP MANUAL.

THE FOLLOWING GUIDELINES ARE NOT EXHAUSTIVE AND DO NOT EXTEND TO GENERALLY ACCEPTED STANDARDS OF ENGINEERING/MECHANICAL MAINTENANCE THAT SHOULD BE APPLIED TO ANY PIECE OF MECHANICAL EQUIPMENT AND THE CHASSIS TO WHICH IT IS MOUNTED.

AUTHORISED TIMBERWOLF SERVICE AGENTS ARE FULLY TRAINED IN ALL ASPECTS OF TOTAL SERVICE AND MAINTENANCE OF TIMBERWOLF WOODCHIPPERS. YOU ARE STRONGLY ADVISED TO TAKE YOUR CHIPPER TO AN AUTHORISED AGENT FOR ALL BUT THE MOST ROUTINE MAINTENANCE AND CHECKS.

TIMBERWOLF ACCEPTS NO RESPONSIBILITY FOR THE FAILURE OF THE OWNER/USER OF TIMBERWOLF CHIPPERS TO RECOGNISE GENERALLY ACCEPTED STANDARDS OF ENGINEERING/MECHANICAL MAINTENANCE AND APPLY THEM THROUGHOUT THE MACHINE.

THE FAILURE TO APPLY GENERALLY ACCEPTED STANDARDS OF MAINTENANCE, OR THE PERFORMANCE OF INAPPROPRIATE MAINTENANCE, MAY INVALIDATE WARRANTY IN WHOLE OR IN PART.

PLEASE REFER TO YOUR AUTHORISED TIMBERWOLF SERVICE AGENT FOR SERVICE AND MAINTENANCE.

SERVICE SCHEDULE

WARNING

Always immobilise the machine by stopping the tractor and removing the ignition key before undertaking any maintenance work. When the tractor is stopped it will be necessary to disengage the PTO so that the rotor can be turned.

Table 1. Service Schedule Complete the following tasks:	Daily Check	Every 25 Hours	Every 50 Hours	Every Year	Every 2 Years
Check feed funnel and belt guard, and PTO guard are securely fitted.	●				
Check blade condition.	●				
Check and lubricate PTO shaft.		●	*Refer to PTO leaflet provided.*		
Check for tightness all nuts, bolts and fastenings making sure nothing has worked loose.			●		
Check belt tension, adjust if necessary			●		
Check cutting anvil.			●		
Check wheel grease points.			●		
Change gear box oil.				●	
Change rotor bearings.					●

NOTE: Rotor Bearings are sealed for life. No greasing or lubrication is necessary.

SAFE MAINTENANCE

- HANDLE blades with extreme caution to avoid injury. Gloves should always be worn when handling the cutter blades.
- THE drive belts should be connected while changing blades, as this will restrict sudden movement of the rotor.
- THE major components of this machine are heavy. Lifting equipment must be used for disassembly.
- CLEAN machines are safer and easier to service.

SPARES

Only fit genuine Timberwolf replacement blades, screws and chipper spares. Failure to do so will result in the invalidation of the warranty and may result in damage to the chipper, personal injury or even loss of life.

COPPER EASE SAFETY INFORMATION

Product name: Copper Ease.

Copper Ease contains no hazardous ingredients at or above regulatory disclosure limits, however, safety precautions should be taken when handling (use of oil-resistant gloves and saftey glasses are recommended - respiratory protection is not required). Avoid direct contact with the substance and store in a cool, well ventilated area avoiding sources of ignition, strong oxidising agents and strong acids. Dispose of as normal industial waste (be aware of the possible existance of regional or national regulations regarding disposal), do not discharge into drains or rivers.

In case of fire: in combustion the product emits toxic fumes, extinguish with alcohol or polymer foam, carbon dioxide or dry chemical powder. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

FIRST AID

Skin contact: there may be mild irritation at the site of contact, wash immediately with plenty of soap and water.

Eye contact: there may be irritation and redness, bathe the eye with running water for 15 minutes.

Ingestion: there may be irritation of the throat, do not induce vomiting, wash out mouth with water.

A safety data sheet for this product can be obtained by writing to the manufacturer at the following address: Comma Oil and Chemicals Ltd., Deering Way, Gravesend, Kent DA12 2QX. Tel: 01474 564311, Fax: 01474 333000.

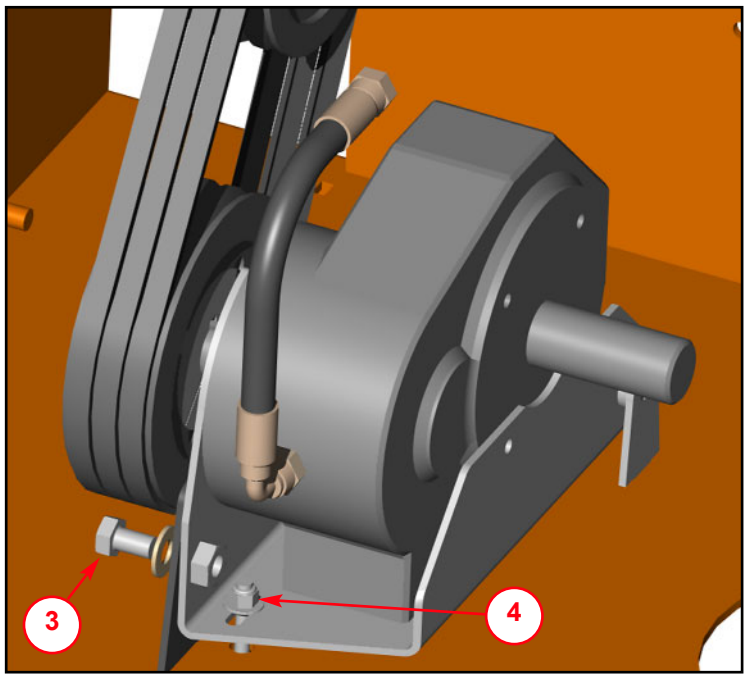
CHECK FITTINGS

The Timberwolf PTO 100G is subject to large vibrations during the normal course of operation. Consequently there is always a possibility that nuts and bolts will work themselves loose. It is important that periodic checks are made to ensure the security of all fasteners. Fasteners should be tightened using a torque wrench to the required torque (see below).

	Size	Pitch	Head	Torque lbft	Torque Nm
Blade Bolts	M8	Standard	T40 Torq	22	29
Funnel Retaining Nuts	M12	Standard	19 mm Hex	60	80
General	M8	Standard	13 mm Hex	17	23
General	M10	Standard	17 mm Hex	34	46
General	M12	Standard	19 mm Hex	60	80

ADJUST BELT TENSION

1. Remove the belt guard.
2. Check the belt tension. Tension is correct when 4.5kg of force deflects one belt 6 mm at the centre of its span. (Push the belt firmly with your finger; it should deflect to roughly the depth of your fingernail).
3. Loosen the M12 Bolt.
4. Adjust the belt tension by tightening the nut clamping the bracket to the base.
5. Refit belt guard.



N.B. *Early models were fitted with a gearbox on a slider. The belt tensioner for these models is located on the slide plate.*

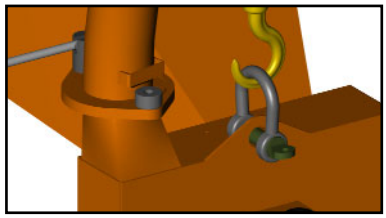
ANVIL CHANGING

The anvil is an important component in maintaining a consistent machine performance. Inspect it with the feed funnel removed. A measure of the wear is how sharp the edge is. If it has become seriously rounded then it is appropriate to change it.

Turning or replacing the anvil should be carried out by a Timberwolf dealer.

SAFE LIFTING OF THE CHIPPER

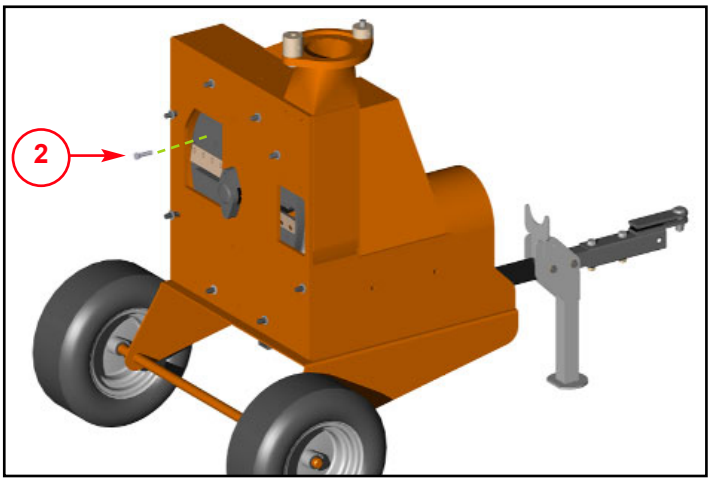
The lifting eye is designed to lift the machine's weight only. Do not use hoist hook directly on the lifting eye, use a correctly rated safety shackle. Inspect the lifting eye prior to each use - DO NOT USE IF DAMAGED.

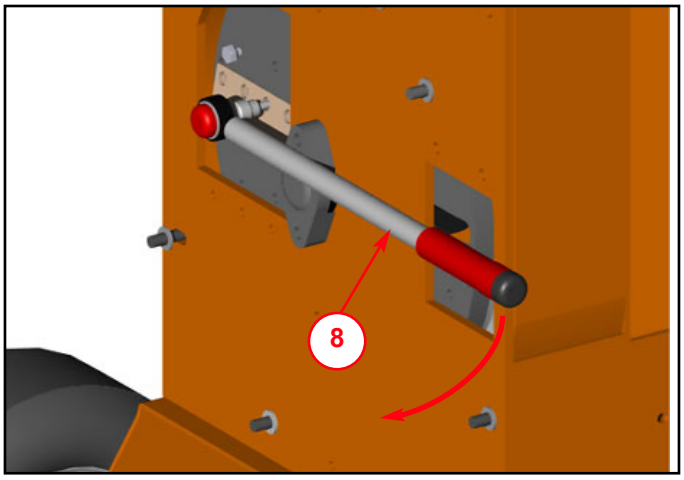


CHANGE BLADES

WARNING

Wear riggers gloves for the blade changing operation.

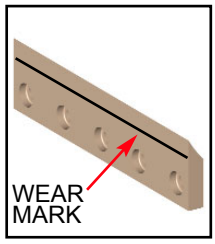




1. Remove the feed funnel.
2. Insert M10 screw into rotor to stop it turning.
3. Use a small screwdriver to remove sap and debris from Torx socket in screw - be particularly careful to ensure every last piece has been removed.
4. Using the Torx fitting provided loosen the blade screws.
5. Remove the blade carefully.
6. **Before fitting a new blade ensure the seating surface on the rotor is spotlessly clean. This is necessary to ensure the blade is always held firm. Damage to the rotor may be caused if this is not checked.**
7. Apply a small amount of copper grease to the blade screws.
8. **Using a torque wrench tighten the blade screws to 29Nm (22 lb/ft).**

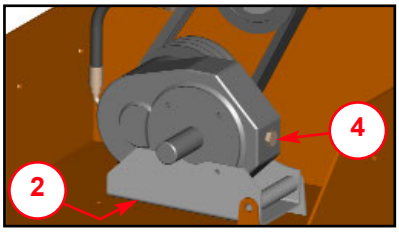
WARNING

Always sharpen blades on a regular basis. Failure to do so will cause the machine to under perform and will overload engine and bearings causing machine breakdown. Blades must not be sharpened beyond the wear mark (see diagram). Failure to comply with this could result in machine damage, injury or loss of life.



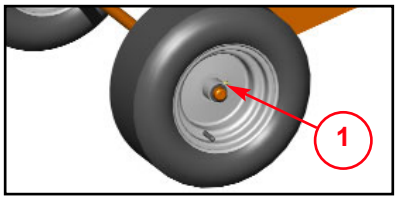
CHANGE GEAR BOX OIL

1. Remove the belt guard.
2. Locate the drain plug underneath the gear box.
3. Drain out oil and replace plug.
4. Add 560ml oil (EP80/90) via top filler/breather plug.



CHECK WHEEL GREASE POINTS

1. Locate grease nipples attached to wheel hubs.
2. Apply 5 shots of general purpose grease.



CHANGE ROTOR BEARINGS

Return the chipper to your dealer.

ENTEC 12 MONTH CHIPPER WARRANTY

WARRANTY PERIOD

The warranty period for the woodchipper commences on the date of sale to the first end user and continues for a period of 12 months.
This guarantee is to the first end user only and is not transferable except when an authorised Timberwolf Dealer has a woodchipper registered with Entec Industries as a hire chipper or long term demonstrator – in these situations they are duly authorised to transfer any remaining warranty period to their first end user. Any warranty offered by the Timberwolf Dealer beyond the original 12 month period will be wholly covered by said Dealer.

LIABILITY

Our obligation under this warranty is limited to repair at Entec Industries premises or at our option an Entec approved Timberwolf dealer. No liability will be accepted for special, indirect, incidental, or consequential loss or damages of any kind.

WARRANTY STATEMENT

Entec Industries warrants to the first end user that;
-Your woodchipper shall be designed, built and equipped, at the point of sale, to meet all current applicable regulations.
-Your chipper shall be free from manufacturing defects both in materials and workmanship in normal service for the period mentioned above.

Warranty will not apply to a failure where normal use has exhausted the life of a component.

Engine units are covered independently by their respective manufacturer warranties.

OWNERS WARRANTY RESPONSIBILITIES

As the owner of an Entec woodchipper you are responsible for the following;
-Operation of the woodchipper in accordance with the Entec instruction manual.
-Performance of the required maintenance listed in your Entec instruction manual.
-In the event of a failure the Entec authorised Timberwolf dealer is to be notified within 10 days of failure and the equipment is to be made available for unmolested inspection by the dealer technician.

WARRANTY RESTRICTIONS

The Entec warranty is restricted to the first end user only and is not transferable except when an authorised Timberwolf Dealer has a woodchipper registered with Entec Industries as a hire chipper or long term demonstrator – in these situations they are duly authorised to transfer any remaining warranty period to their first end user.

The Entec warranty may be invalidated if any of the following apply;
-The failed parts or assembly is interfered with in any way.
-Normal maintenance has not been performed.
-Incorrect reassembly of components.
-The machine has undergone modifications not approved in writing by Entec Industries.
-In the case of tractor driven equipment, use has been on an unapproved tractor.
-Conditions of use can be deemed abnormal.
-The machine has been used to perform tasks contrary to those stated in the Entec instruction manual.

WARRANTY SERVICE

To obtain warranty service please contact your nearest Entec approved Timberwolf dealer. To obtain details of the nearest facility please contact Entec Industries at the address on the front of this manual. These warranty terms are in addition to and not in substitution for and do not affect any right and remedies which an owner might have under statute or at common law against the seller of the goods under the contract by which the owner acquired the goods.

ENTEC INDUSTRIES LIMITED

Environmental Technology

Entec House, Creeting Road, Stowmarket, Suffolk IP14 5AY. Telephone: 01449 765800 Fax: 01449 765801
Email: info@timberwolf-uk.com Web site: www.timberwolf-uk.com

E C Declaration of Incorporation

Entec Industries Ltd as the designer and manufacturer certifies that the machine stipulated below complies with all the relevant provisions of:

The Machinery Directive (98/37/EC)
& other relevant directives

and the National Laws and Regulations adopting these directives.

DESIGNER/MANUFACTURER:	Entec Industries Ltd
DESCRIPTION OF MACHINERY:	Unpowered portable machinery designed to be incorporated into a suitable PTO power source, and chip up tree waste prior to disposal.
MODEL:	PTO 100G
SERIAL NUMBER:	Serial manufacture

Harmonised standards applied (including parts/clauses of):

BS EN 292:1991 / BS EN 294:1992 / BS EN 60204-1:1998 / BS EN 563:1994 / BS EN 954-1:1996 / BS EN 982:1996 / BS EN 1088:1995 / prEN 13525:1999 / BS EN 60204-1:1998 / BS EN 60529:1991 / BS EN 60947-5-1:1991

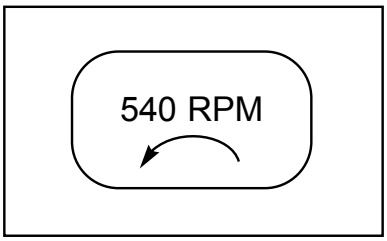
This machinery is incomplete and must not be put into service until the machinery into which it is incorporated has been declared in conformity with the provisions of the directive.

"Responsible" person empowered to sign: _____ **Mr. John Marshall**

Position in company: **Director**

Date: 28/6/2006

4099



604

TIMBERWOLF

1136

OPERATING INSTRUCTIONS

READ THE INSTRUCTION MANUAL.

THE INSTRUCTION MANUAL WITH THIS MACHINE CONTAINS IMPORTANT OPERATING, MAINTENANCE AND HEALTH AND SAFETY INFORMATION.

FAILURE TO FOLLOW THE INFORMATION CONTAINED IN THE INSTRUCTION MANUAL MAY LEAD TO DEATH OR SERIOUS INJURY.

1662

! SAFETY NOTE !

LIFTING EYE IS DESIGNED TO LIFT THE MACHINE'S WEIGHT ONLY.

DO NOT USE HOIST HOOK DIRECTLY ON LIFTING EYE. USE CORRECTLY RATED SAFETY SHACKLE ONLY THROUGH LIFTING EYE.

LIFTING EYE TO BE INSPECTED EVERY 6 MONTHS OR BEFORE EACH USE.

ALWAYS VISUALLY INSPECT LIFTING EYE PRIOR TO EACH USE. DO NOT USE LIFTING EYE IF DAMAGED.

1136

!! ATTENTION !!

CLEAN UNDER BLADES BEFORE REFITTING OR TURNING

FAILURE TO DO SO MAY RESULT IN BLADE(S) COMING LOOSE AND DAMAGE BEING CAUSED TO THE ROTOR HOUSING

3022

670

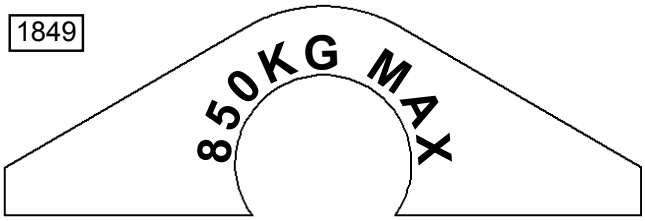
1294

Model No.:

Serial No.: **Date of Manf.:**

ENTEC INDUSTRIES LIMITED
CREETING ROAD, STOWMARKET
SUFFOLK IP14 5AY
TEL: 01449 765800

1849



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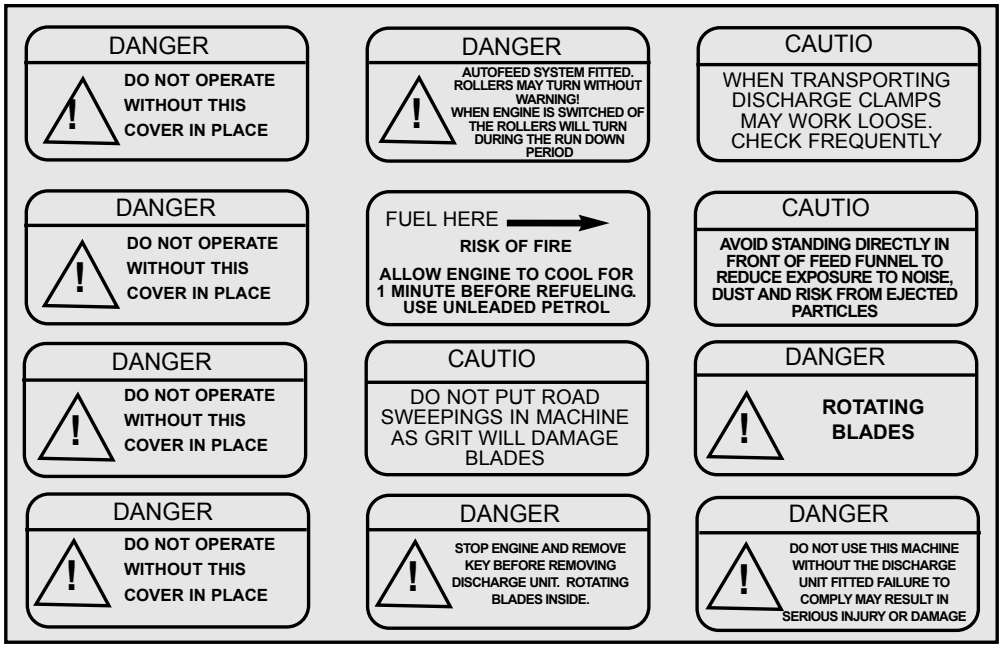

Date Last Modified: 9th Sept 04

TIMBERWOLF
PTO 100G

PARTS LISTS

The following illustrations are for parts identification only. The removal or fitting of these parts may cause a hazard and should only be carried out by trained personnel.

	Page No.
CHASSIS / ROTOR HOUSING	21
DECALS	See page 18
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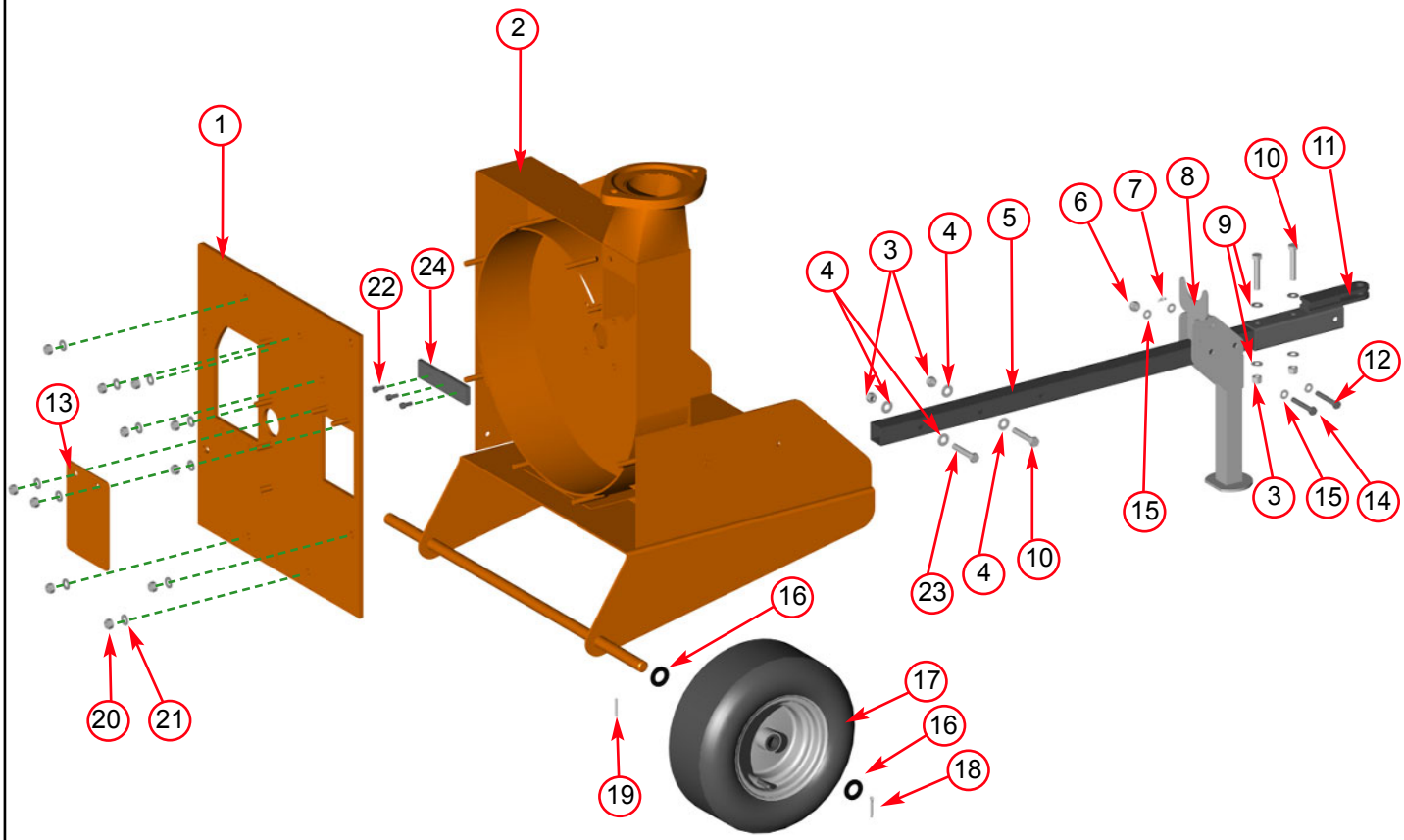
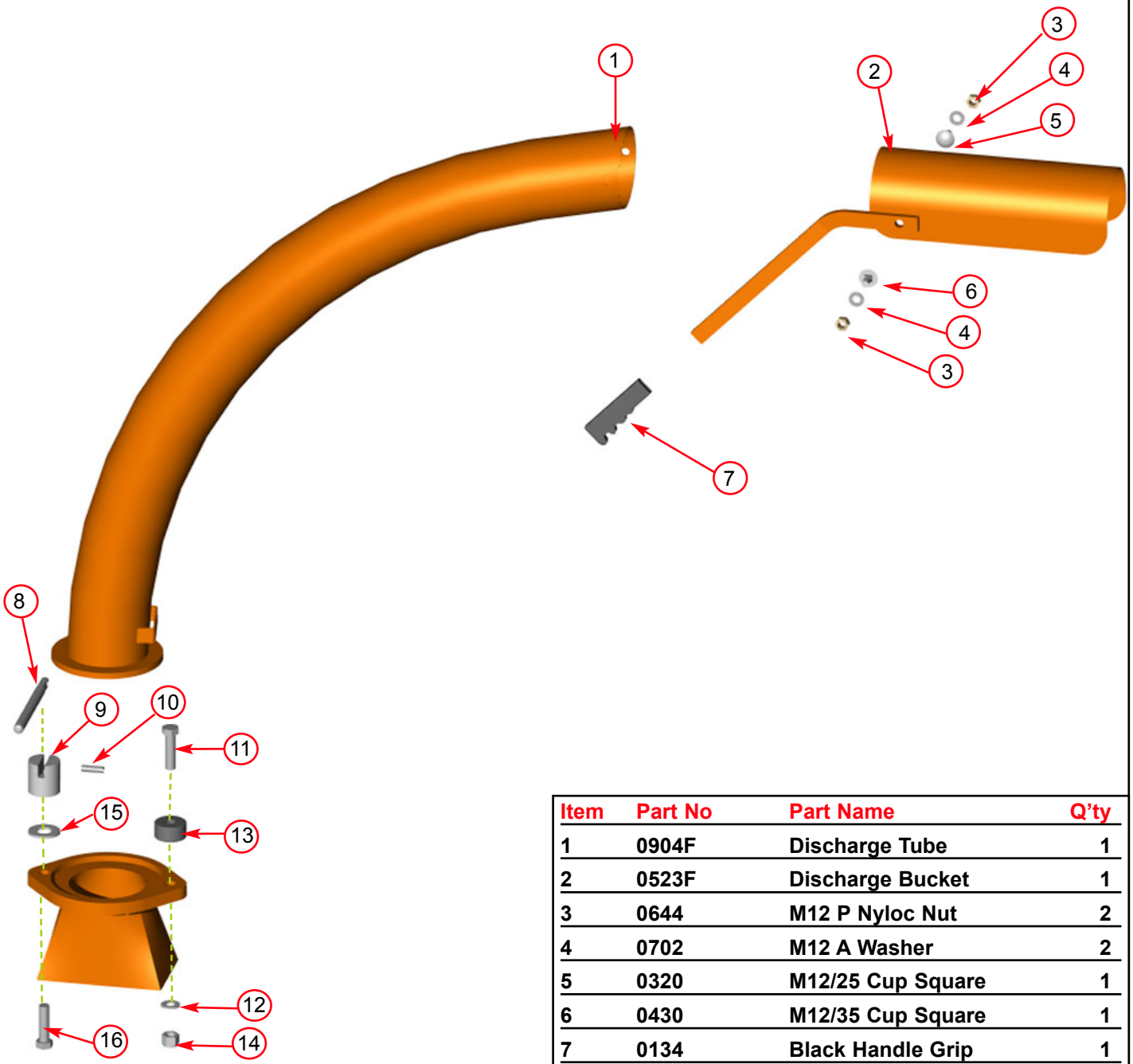
DRIVE TRAIN	23
FUNNEL / BELT GUARD	24
ROTOR	25



Date Last Modified: 3rd Aug 05

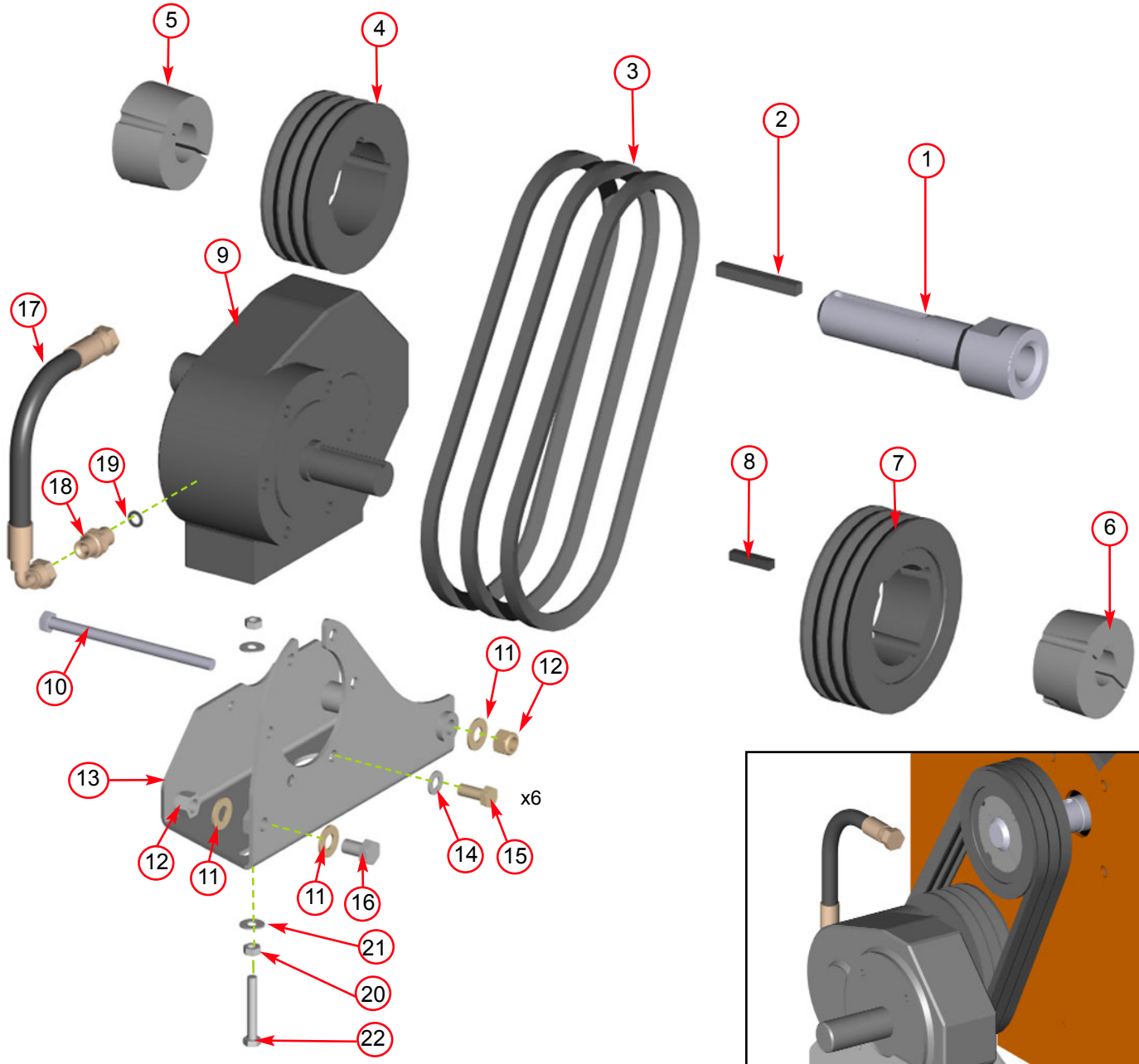
Item	Part No	Part Name	Q'ty
1	1096F	Front Plate	1
2	1630F	Rotor Housing	1
3	0644	M12 P Nyloc Nut	4
4	0704	M12 C Washer	4
5	1021	Tow Beam	1
6	0052	M10 T Nyloc Nut	1
7	—	R Clip	1
8	1020F	Prop Leg	1
9	0702	M12 A Washers	4
10	0334	M12/70 Bolt	3
11	1022F	Tow Hitch	1
12	—	Prop Leg Pin	1

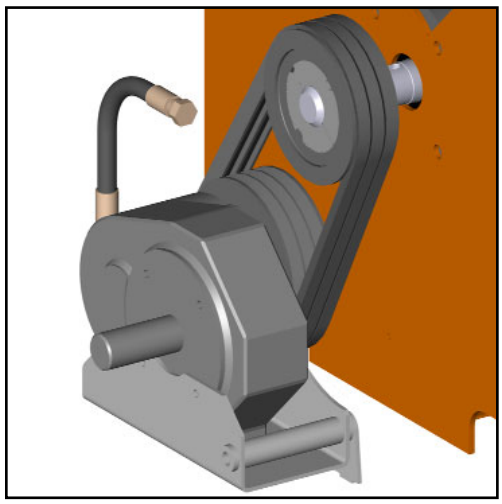
Item	Part No	Part Name	Q'ty
13	0524	Access Cover	1
14	0371	M10/70 Bolt	2
15	0701	M10 A Washer	4
16	0707	M24 A Washer	4
17	1025	Wheel	2
18	0528	Split Pin	2
19	0068	Roll Pin	2
20	0045	M12 T Nut	11
21	0702	M12 A Washers	11
22	0345	M8/18 Socket Caps	3
23	0987	M12/60 Bolt	1
24	0105	Anvil	1



Item	Part No	Part Name	Q'ty
1	0904F	Discharge Tube	1
2	0523F	Discharge Bucket	1
3	0644	M12 P Nyloc Nut	2
4	0702	M12 A Washer	2
5	0320	M12/25 Cup Square	1
6	0430	M12/35 Cup Square	1
7	0134	Black Handle Grip	1
8	1649F	Discharge Clamp Handle	1
9	4109M	M16 Clamp Nut	1
10	4131	Roll Pin	1
11	0434	M16/70 Hex Bolt	1
12	1354	M16 C Washer	1
13	2837M	Clamp Nut Small	1
14	1511	M16 P Nyloc Nut	1
15	0832	M24 Washer	1
16	0333	M16/60 Hex Bolt	1

Date Last Modified: 19th July 05



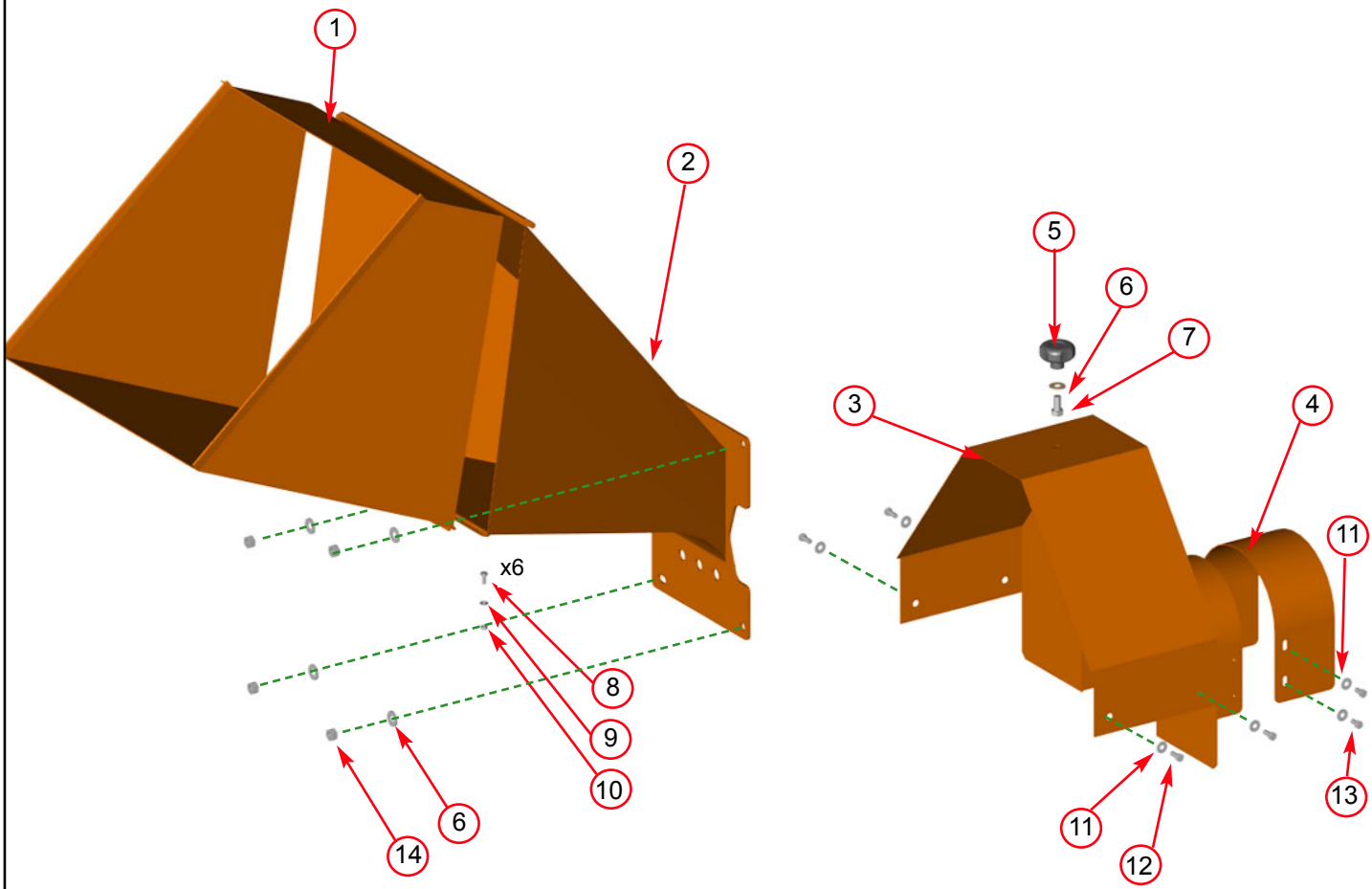


Date Last Modified: 3rd Aug 05

Item	Part No	Part Name	Q'ty
1	0881	Rear Shaft	1
2	0072	Key 10x10x80	1
3	1533	Belt 982 SPA	3
4	0448	Pulley 140x3 SPA	1
5	0410	Bush 2517 38 mm	1
6	1616	Bush 2517 30 mm	1
7	1175	Pulley 160x3 SPA	1
8	0073	Key 8x8x40	1
9	0731	Gear Box	1
10	0316	M12/150 Bolt	1
11	0704	M12 C Washer	3

Item	Part No	Part Name	Q'ty
12	0644	M12 P Nyloc Nut	2
13	1531F	Gear Box Bracket	1
14	0701	M10 A Washer	6
15	0360	M10/25 Bolt	6
16	0318	M12/30 Bolt	1
17	4239	3/8" Breather Hose	1
18	0161	3/8" M/M Adapter	1
19	0396	3/8" Dowty Washer	1
20	0476	M8 Plain Nut	2
21	0712	M8 C Washer	2
22	0354	M8/60 Bolt	1

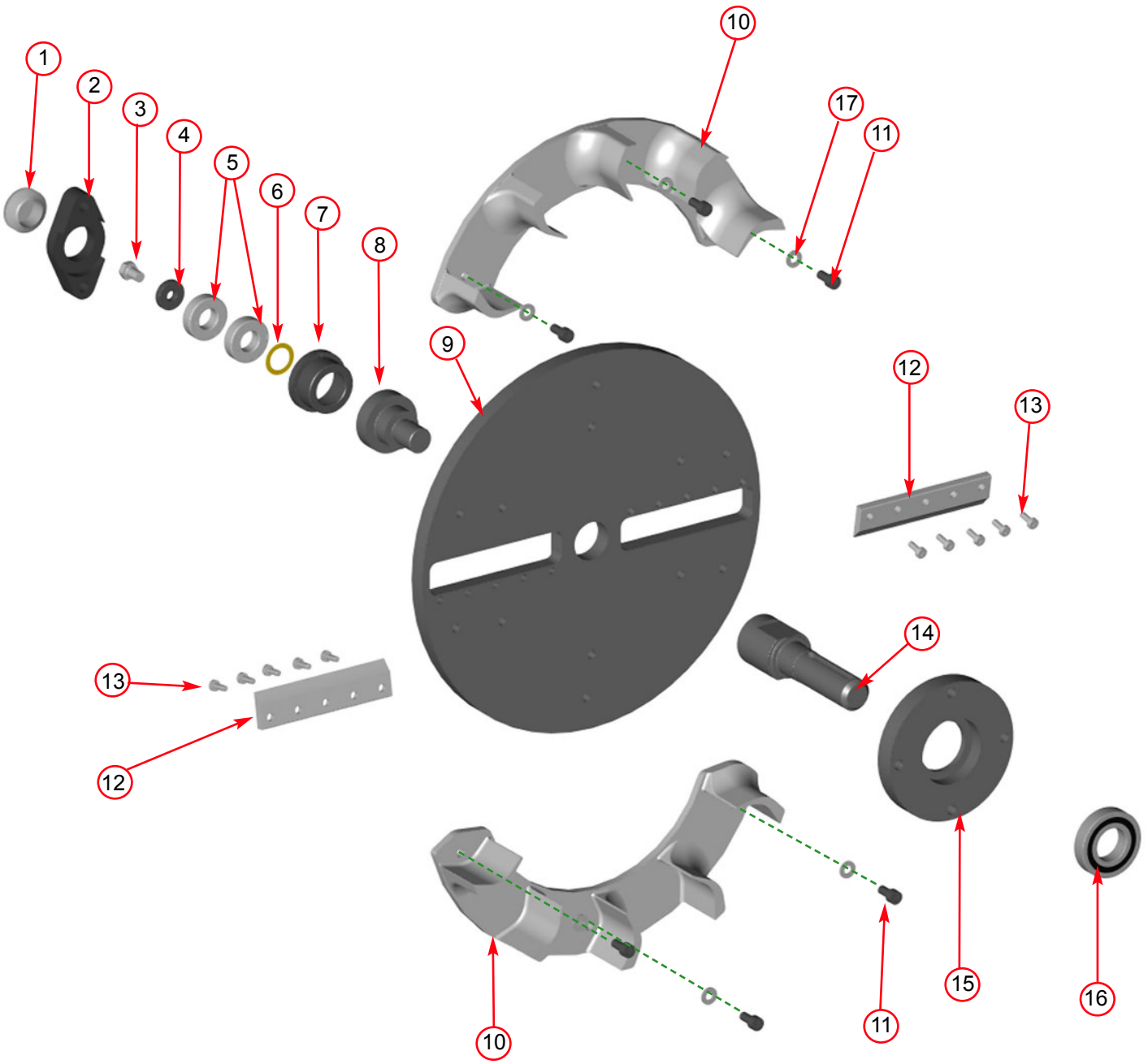
FUNNEL / BELT GUARD



Date Last Modified: 3rd Aug 05

Item	Part No	Part Name	Q'ty
1	0693	Feed Tray	1
2	0691	Funnel	1
3	1013F	Belt Guard	1
4	1077F	Funnel Extension	1
5	0361	Knob	1
6	0704	M12 C Washer	4
7	0318	M12/20 Bolt	1

Item	Part No	Part Name	Q'ty
8	1415	M6/16 Pan Posi	6
9	0709	M6 A Washer	6
10	0391	M6 T Nyloc Nut	6
11	0712	M8 C Washer	8
12	0346	M8/20 Bolt	4
13	0344	M8/16 Bolt	4
14	0046	M12 Plain Nut	4



Date Last Modified: 3rd Aug 05

Item	Part No	Part Name	Q'ty
1	0959	Plastic Cap	1
2	0884	Front Bearing Housing	1
3	0318	M12/20 Hex Set	1
4	0415	Heavy Washer	1
5	0491	Bearing 6205	2
6	0796	20 Thou Shim	As Req'd
7	0883	Bearing Cup	1
8	1611	Nose Shaft	1
9	1083	Rotor	1

Item	Part No	Part Name	Q'ty
10	1571	Fan Section	2
11	0386	M10/30 Caphead	6
12	0071H	Blade	2
13	0065	Blade Bolts	10
14	4062	Rear Shaft	1
15	4063	Rear Bearing Housing	1
16	0495	Bearing 6208	1
17	0781	M10 A Washer	6