

# TW 13/75G WOOD CHIPPER



## INSTRUCTION MANUAL

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# INTRODUCTION

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

## IMPORTANT HEALTH AND SAFETY INFORMATION

Before using your new chipper, please take time to read this manual. Failure to do so could result in:

- PERSONAL INJURY
- EQUIPMENT DAMAGE
- DAMAGE TO PROPERTY
- 3RD PARTY INJURIES

This manual covers the operation and maintenance of the Timberwolf TW 13/75G. All information in this manual is based on the latest product information available at the time of purchase.

All the information you need to operate the machine safely and effectively is contained within pages 2 to 10. Ensure that all operators are **properly trained** for operating this machine, especially **safe working practices**.

Timberwolf's policy of regularly reviewing and 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, in some cases, minor discrepancies between the actual chipper and the text in this manual.

**The manual should be considered an important 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.***

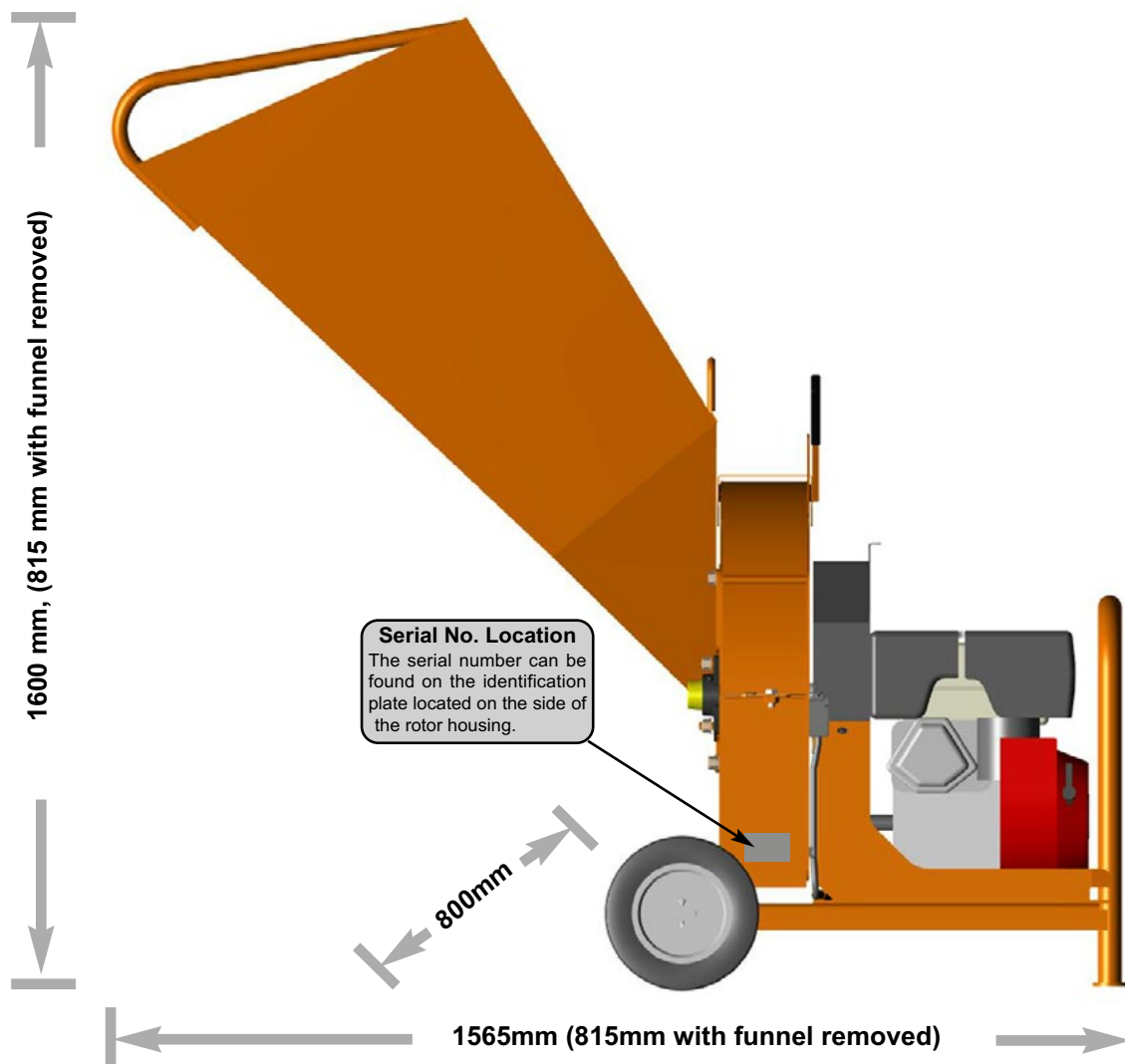
This caution symbol indicates important safety messages in this manual. When you see this symbol, be alert to the possibility of injury to yourself or others and carefully read the message that follows.



## The Timberwolf TW 13/75G

*Designed to chip solid wood material up to 75mm in diameter and capable of chipping over 0.75 tonnes of brushwood per hour.*

### DIMENSIONS

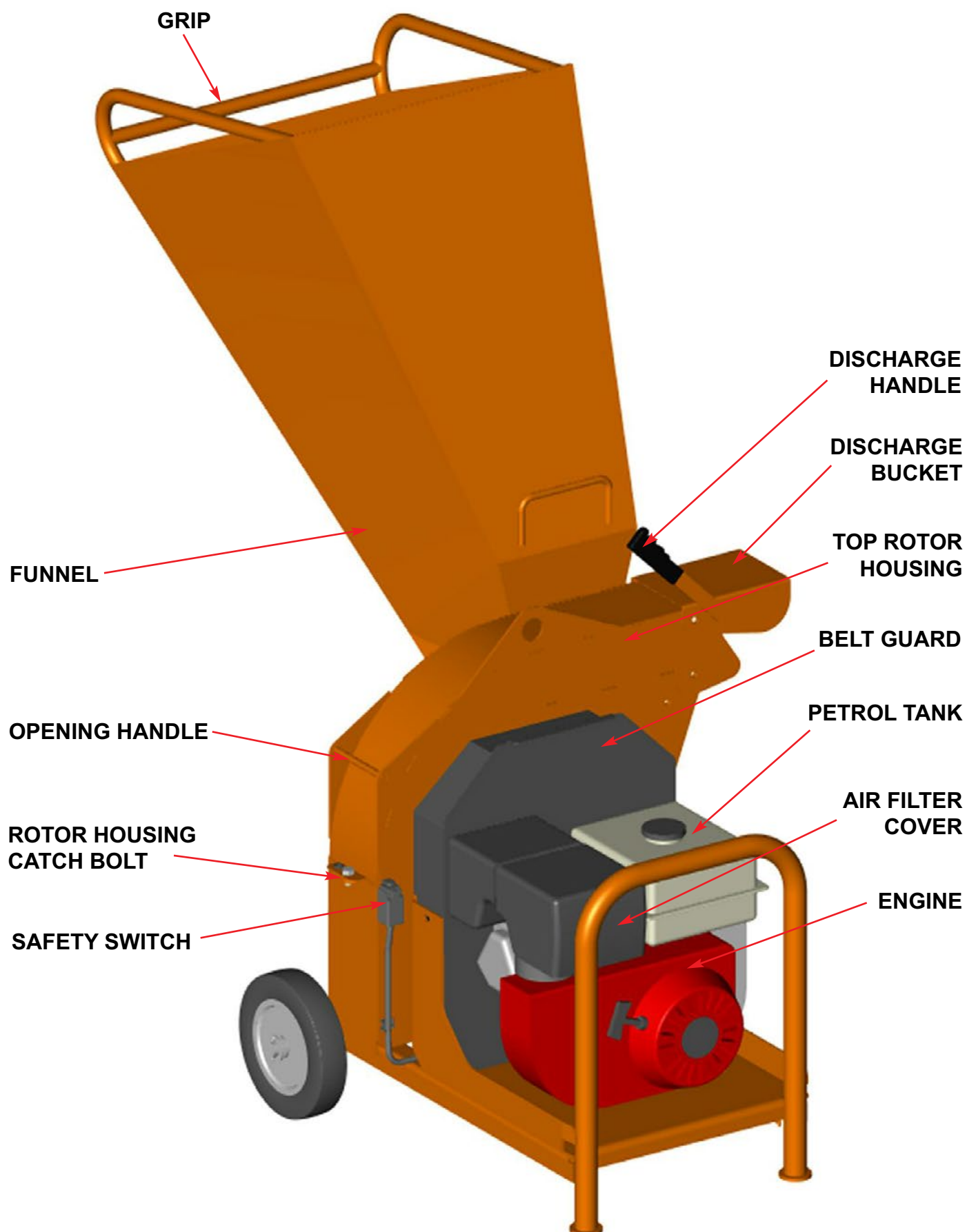


### TIMBERWOLF TW 13/75G SPECIFICATION

<b>Engine type:</b>	<i>Honda 4 stroke OHV</i>	<b>Maximum diameter material:</b>	<i>75 mm (3")</i>
<b>Maximum power:</b>	<i>9.6kW (13hp)</i>	<b>Fuel capacity:</b>	<i>6.5 litres</i>
<b>Cooling method:</b>	<i>Air cooled</i>	<b>Material processing capacity:</b>	<i>0.75 tonnes/hr</i>
<b>Overall weight:</b>	<i>188kg</i>	<b>Fuel type:</b>	<i>Unleaded petrol</i>
<b>Starting method:</b>	<i>Recoil</i>		
<b>Type of feed:</b>	<i>Gravity</i>		



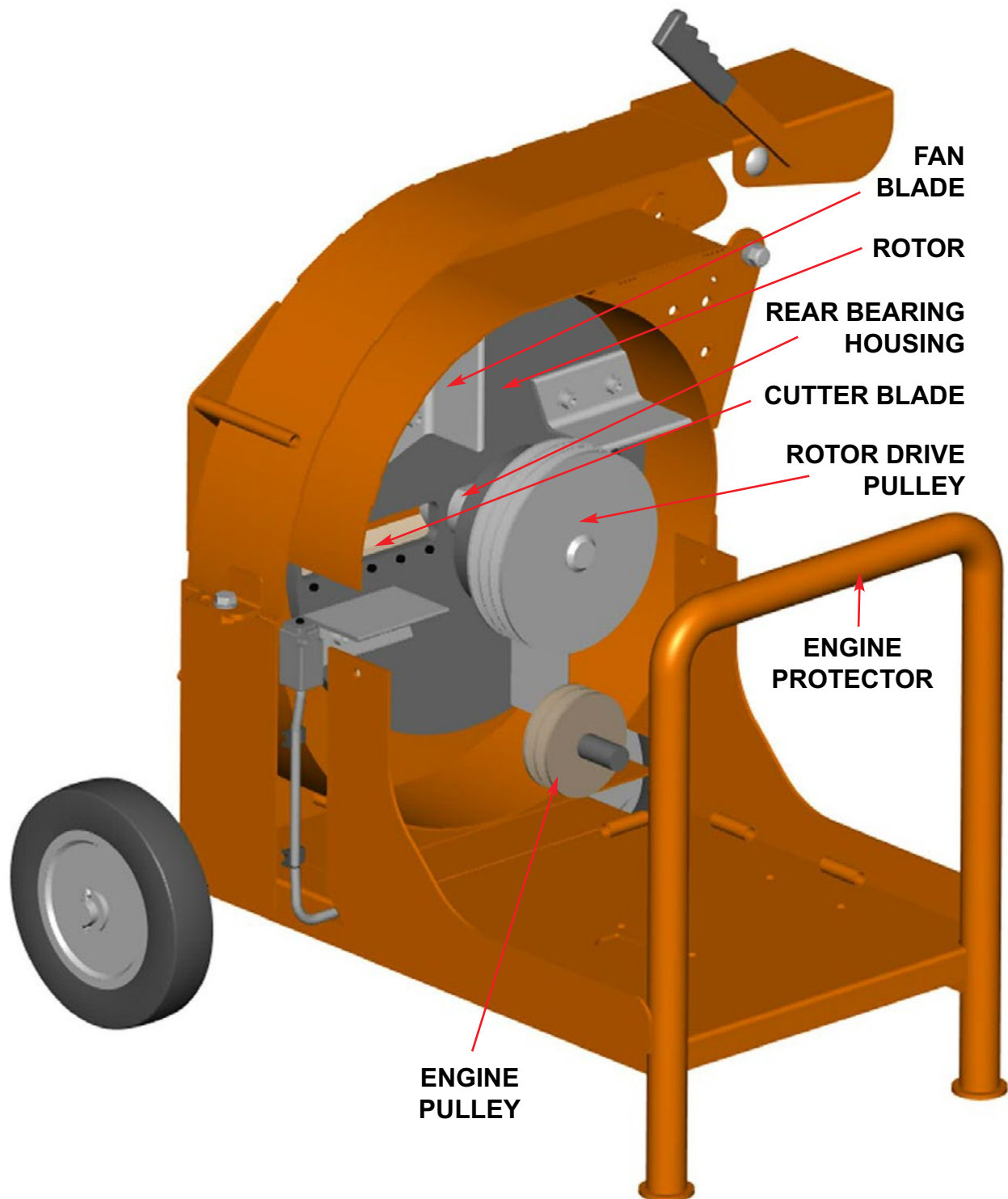
## PARTS LOCATOR







## **PARTS LOCATOR**





## WARNING

The chipper will feed material through on its own. To do this, it relies on sharp blades both on the feed rollers and 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.



Close fitting heavy-duty non-snag clothing.



Work gloves with elasticated wrist.



Face mask if appropriate.



Steel toe cap safety boots.



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

**ALWAYS** check the machine is well supported and cannot move.

**ALWAYS** operate the chipper with the engine set to maximum speed when chipping.

**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** operate the chipper in a well ventilated area - exhaust fumes are dangerous.

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

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

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

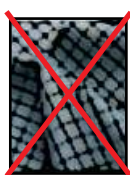
**DO NOT** allow -



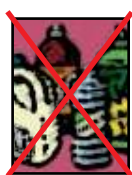
BRICKS



STRING



CLOTH



PLASTIC



STONES



METAL



GLASS



RUBBER



ROOTS



BEDDING PLANTS

- to enter the machine, as damage is likely.

**DO NOT** smoke when refuelling.



**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.

**DO NOT** use the chipper inside buildings.



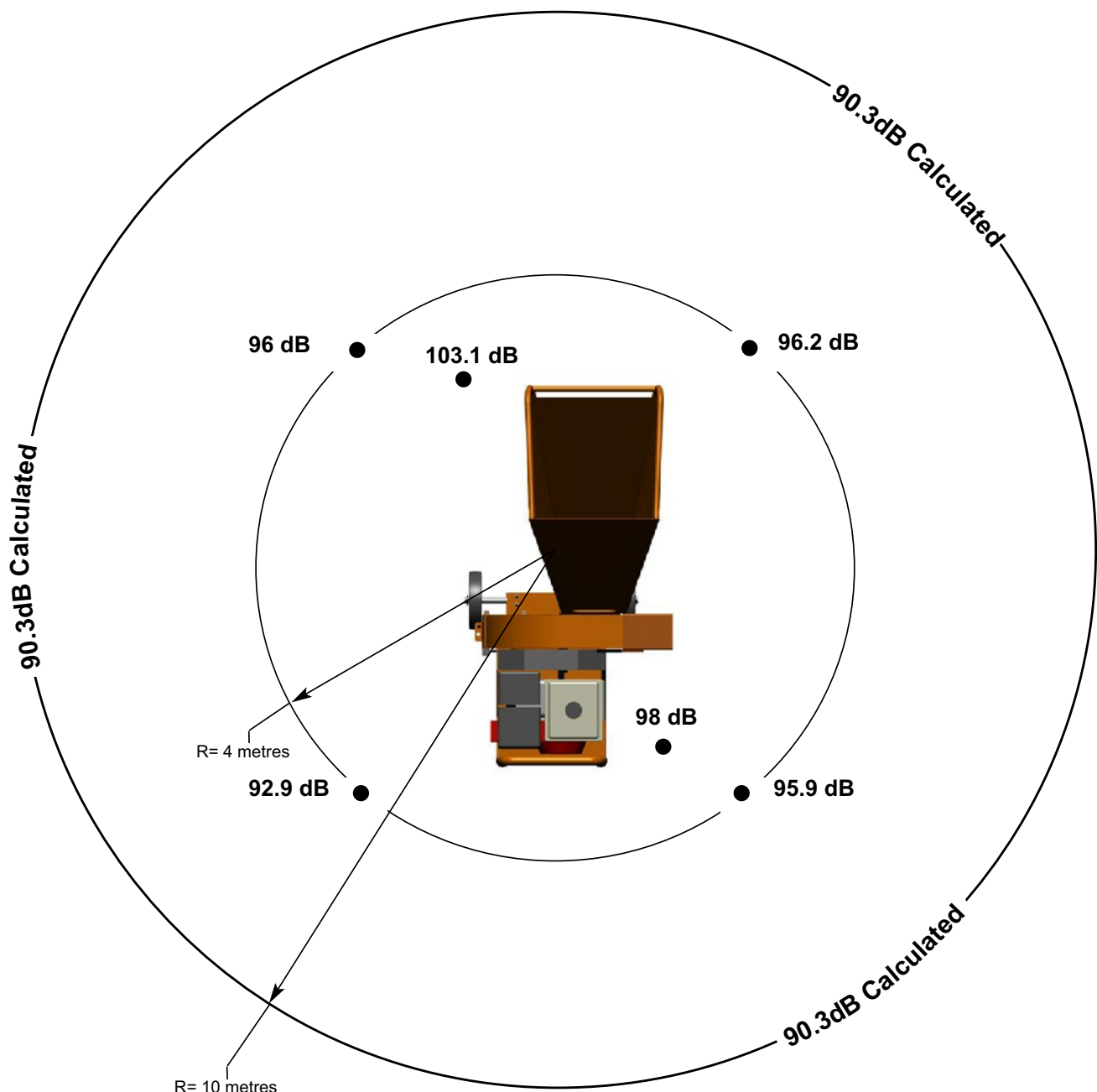


## NOISE TEST

**MACHINE:** TW 13/75G

**NOTES:** Tested chipping 40mm x 40mm corsican pine 1.5m in length

*Noise levels above 80dB (A) will be experienced at the working position. Wear ear protection at all times to prevent possible damage to hearing. All persons within a 4 metre radius must also wear good quality ear protection.*



**Guaranteed Sound Power: 120dB (A)**

*As required by Annex III of Directive 2000/14/EC "Noise Emission in the environment by equipment for use outdoors".*



## SAFE TRANSPORTATION

- THE TW 13/75G chipper may be transported as a unit or with the feed funnel removed.
- TAKE care when loading the TW 13/75G as it is 183 kg in weight.
- STRAP the chipper down firmly before beginning a journey (do not use feed funnel handles to strap down machine).
- ENSURE no debris or water is trapped in the rotor housing that may spill during transit.
- TURN the fuel valve OFF and keep the engine upright.

## DELIVERY

All Timberwolf TW 13/75G 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.

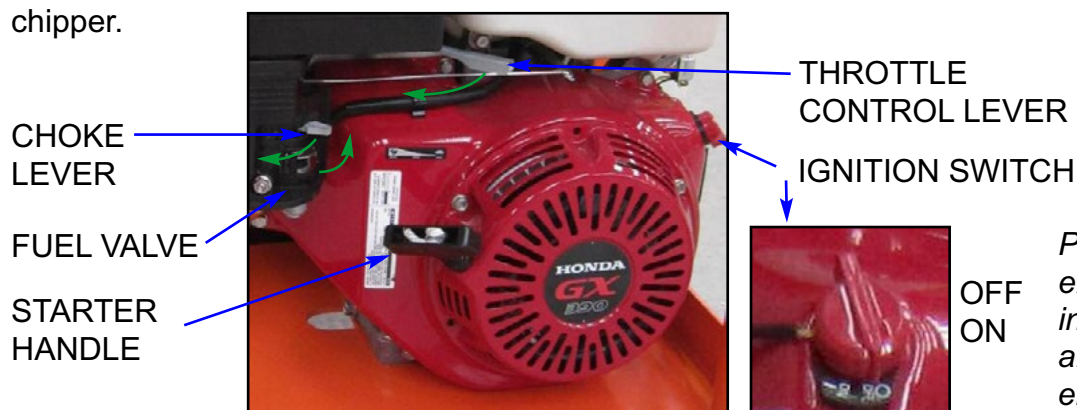
## OPERATOR'S PERSONAL PROTECTIVE EQUIPMENT REQUIRED

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

See page 5 for more detailed information.

## MANUAL CONTROLS

There are five controls on the Honda GX 390 K1 that are required for daily usage of the TW 13/75G chipper.



Please refer to the Honda engine manual for detailed instructions of how to start and control the GX390 engine.

## STARTING THE ENGINE

- TURN the fuel valve to the 'ON' position.
- MOVE the choke lever to the 'CLOSE' position. NOTE: Do not use the choke if the engine is warm or the air temperature is high.
- MOVE the throttle control lever slightly to the left.
- TURN the ignition switch to the 'ON' position.
- PULL the starter handle lightly until resistance is felt, then pull briskly.
- CAUTION: Do not allow the starter handle to snap back against the engine. Return it gently to prevent damage to the recoil mechanism.
- AS the engine warms up, gradually move the choke lever to the 'OPEN' position.
- POSITION the throttle control lever for the desired engine speed.



## STOPPING THE ENGINE

- MOVE the throttle control lever to idle and allow to run for one minute.
- TURN the fuel valve to the 'OFF' position.

## EMERGENCY STOPPING

Turn the ignition switch to the 'Off' position (as shown above).

## DAILY CHECKS BEFORE STARTING

- LOCATE the machine on firm level ground.
- CHECK engine oil level.
- CHECK the fuel valve is open.
- 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 75 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 whilst 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. Timberwolf chipper blades are hollow ground to an angle of 40 degrees. When performing daily blade checks ensure blade edge is sharp and free from chips, if there is any evidence of damage, or the edge is "dull" change the blade(s). The TW 13/75G is fitted with one blade 177 mm (7") long. It is 43 mm wide when new. A new blade should chip for up to 25 hours before it requires sharpening. This figure will be drastically reduced by feeding the machine with stony, sandy or muddy material.

As the blade becomes blunt performance is reduced, with increased stress and load on the machine the chips will become more irregular and stringy. At this point the blade should be sent to a reputable blade sharpening company. The blade can be sharpened several times in its life. A wear mark on the reverse side indicates the safe limit of blade wear. Replace when this line is exceeded.

The machine is also fitted with a static blade (anvil). It is important that the anvil is in good condition to allow the cutting blades to function efficiently. Performance will be poor, even with sharp cutter blades, if the anvil is worn.

## 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 engine, as per instructions on page 9.
- REMOVE the M12 screw that retains the top rotor housing.
- OPEN the top rotor housing.
- 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.**



- IT is not necessary to remove all the debris, just the majority.
- CLOSE the rotor housing and clamp down tightly.
- RESTART the engine and increase to full speed.
- ALLOW chipper time to clear the rotor housing.
- FEED a small piece of wood in to ensure complete clearance.

### **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 WOOD CHIPPERS. 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 engine, removing the ignition key and disconnecting the battery before undertaking any maintenance work.



SERVICE SCHEDULE	Daily Check	25 Hours	50 Hours	500 Hours
Check engine oil - top up if necessary (10W-30).	✓			
Check for engine oil leaks.	✓			
Check fuel level.	✓			
Check feed funnel and belt guard are securely fitted.	✓			
Clean engine air intake.	✓			
Check air filter element.	✓			
Check blade condition.	✓			
Check for tightness all nuts, bolts and fastenings making sure nothing has worked loose.		✓		
Check tension of main drive belts (and tension if necessary).		✓		
Check cutting anvil for wear.			✓	
Grease front rotor bearing.			✓	
Check for loose electrical wiring.				✓
Renew oil filter.	}	REFER TO YOUR ENGINE SUPPLIERS MANUAL		
Replace spark plugs.				
Check valve clearances.				
Clean air filter.				
Clean sediment cup.				
Clean fuel tank and strainer.				
Check fuel line.				
Replace anvil when worn.	RETURN TO DEALER FOR ANVIL CHANGE			

**NOTE:** Your Timberwolf woodchipper is covered by a full 12 months parts and labour warranty. Subject to correct maintenance and proper machine usage, the bearings are guaranteed for 12 months regardless of hours worked by the machine. In conditions of 'heavy usage' - i.e. in excess of 500 hours per year - it is recommended that the bearings are changed annually to ensure that the machine retains optimum working performance.



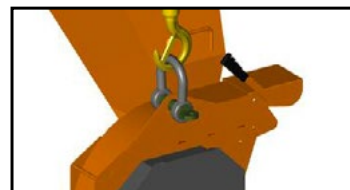
## SAFE MAINTENANCE

**ALWAYS IMMOBILISE THE ENGINE BEFORE UNDERTAKING ANY MAINTENANCE WORK ON THE CHIPPER BY REMOVING THE KEY AND DISCONNECTING THE BATTERY.**

- 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.

## 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 LIFTING EYE IF DAMAGED.**



## 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 safety 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 industrial waste (be aware of the possible existence 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.**

## ENGINE SERVICING

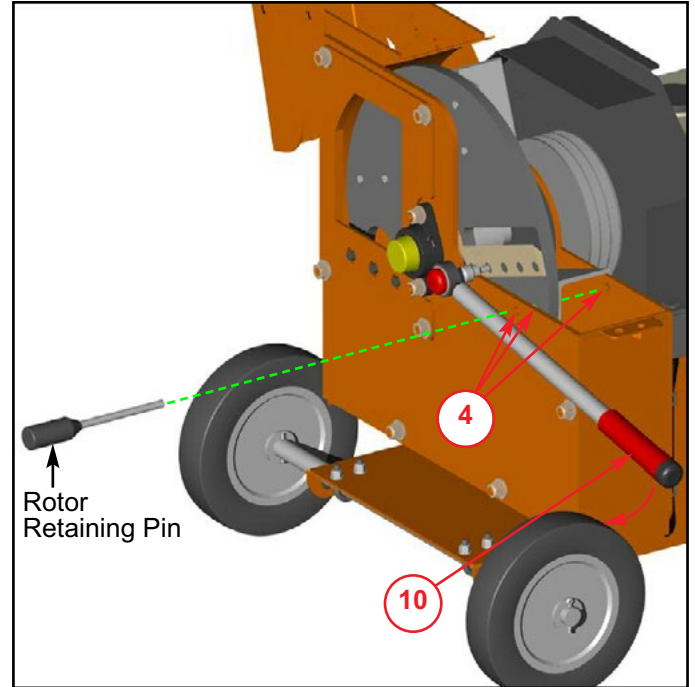
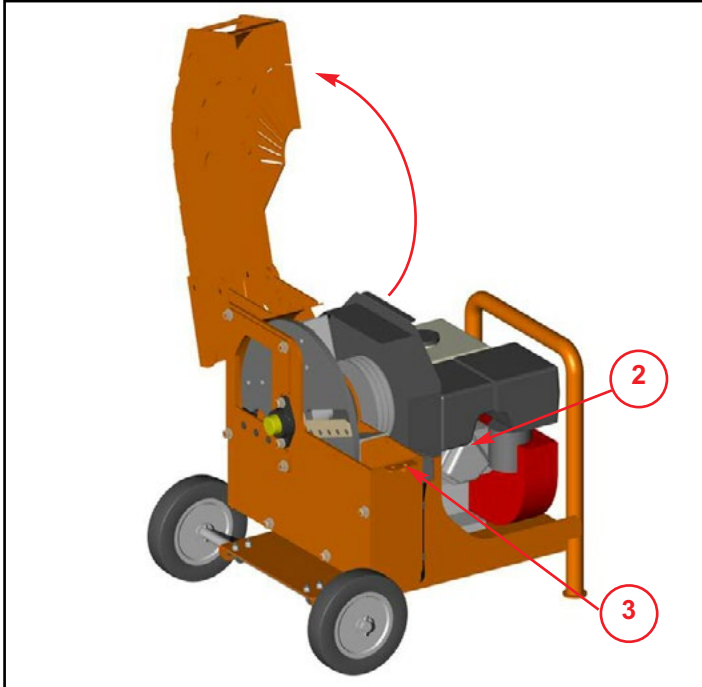
All engine servicing must be performed in accordance with the Engine Manufacturer's handbook provided with the machine. **FAILURE TO ADHERE TO THIS MAY INVALIDATE WARRANTY AND/OR SHORTEN THE LIFE OF THE ENGINE.**



## CHANGE BLADES

### WARNING

Wear riggers gloves for the blade changing operation.

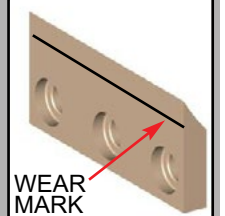


1. Turn engine off, as per instructions on page 9.
2. Pull the plug cap from the spark plug.
3. Remove the M12 screw that retains the top rotor housing using a 19 mm spanner.
4. Turn the rotor by hand using the fan blades so that holes (4) are aligned and insert the 2496F Rotor Retaining Pin (supplied in tool kit).
5. Use a small screw driver to clean out the star socket screws heads retaining the blade.
6. Undo blade screws using the star socket provided.
7. **Before fitting replacement blades ensure the blade seat is clean. No material should be allowed to sit between the blade and the rotor.**
8. Check screws being replaced are not damaged. If so, these should be renewed.
9. Apply a thin layer of copper grease to the entire screw thread.
10. **Retighten the screws to 29Nm (22lb/ft)**  
*This torque setting is vitally important to ensure your bolts come out at a later date. Timberwolf recommend you purchase a torque wrench for this and other jobs on the chipper.*
11. Remove Rotor Retaining Pin.
12. Close rotor housing and replace retaining screw.
13. Refit spark plug cap to spark plug.

### 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.





## CHECK FITTINGS

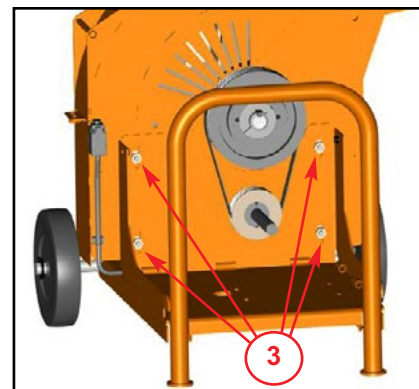
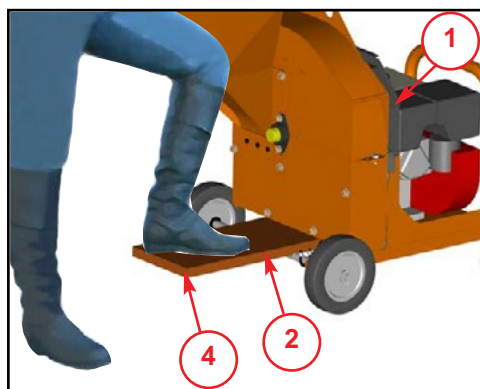
The Timberwolf TW 13/75G is subject to large vibrations during the normal course of operation. Consequently there is always a possibility that nuts and bolts will work themselves loose. It is important that periodic checks are made to ensure the security of all fasteners. Fasteners should be tightened using a torque wrench to the required torque (see below). ***Uncalibrated torque wrenches can be inaccurate by as much as 25%. It is therefore essential that a calibrated torque wrench is used to achieve the tightening torques listed below.***

	Size	Pitch	Head	Torque lbft
Blade Bolts	M8	Standard	T40 Torq	22
General	M8	Standard	13 mm Hex	20
General	M10	Standard	17 mm Hex	45
General	M12	Standard	19 mm Hex	65

## TENSION BELTS

**NOTE:** There will normally be a rapid drop in tension during run-in period for new belts. When new belts are fitted, check the tension every 2 - 3 hours and adjust until the tension remains constant.

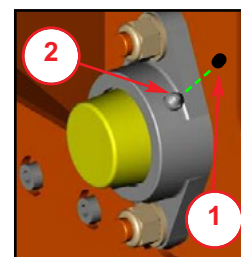
*Belt failures due to lack of correct tensioning will not be covered under your Timberwolf warranty.*



1. Remove the belt guard.
2. Insert a piece of wood approximately 25mm x 150mm x 1200mm (1"x 6"x 48") in the gap as shown.
3. Loosen the four Nyloc nuts located behind the engine.
4. With the chipper firmly supported use the piece of wood to lever the rotor housing upwards.
5. For instructions on checking belt tension & correct belt tension values, please refer to the Timberwolf V-Belt Tensioning Data Table (pg 21).
6. As the belts become taught retighten the four Nyloc nuts.
7. Replace the belt guard.
8. Remove the piece of wood.

## GREASING ROTOR BEARINGS

1. Remove rubber cap from front bearing housing grease nipple.
2. Apply 1 pump of grease to bearing.
3. Replace cap.



## ANVIL CHANGING

The anvil is an important component in maintaining a consistent machine performance. Inspect it through an open rotor housing. 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.*



## ENTEC INDUSTRIES LTD 36 MONTH WARRANTY

### WARRANTY

The warranty period for your Entec Industries Ltd machine commences on the date of sale to the first end user and continues for a period of 36 months. This guarantee is to the first end user only and is not transferable except when an Authorised Timberwolf Dealer has a machine registered with Entec Industries Ltd 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 36-month period will be wholly covered by said Dealer.

### LIABILITY

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

### WARRANTY STATEMENT

Entec Industries Ltd warrants to the first end user that:

- Your machine shall be designed, built and equipped, at the point of sale, to meet all current applicable regulations.
- Your machine shall be free from manufacturing defects both in materials and workmanship in normal service for the period mentioned above.

Normal wear & tear on consumable items and their routine maintenance or replacement are not warrantable items.

Engine units are covered independently by their respective manufacturer warranties.

### OWNERS WARRANTY RESPONSIBILITIES

As the owner of an Entec Industries Ltd machine you are responsible for the following:

- Operation of the machine in accordance with the Entec Industries Ltd instruction manual.
- Performance of the required maintenance listed in your Entec Industries Ltd instruction manual.
- In the event of a failure the Entec Industries Ltd authorised Timberwolf dealer is to be notified within 10 days of failure and the equipment is to be made available for inspection by the dealer technician.

### WARRANTY RESTRICTIONS

The Entec Industries Ltd warranty is restricted to the first end user only and is not transferable except when an authorised Timberwolf dealer has a wood chipper registered with Entec Industries Ltd 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 Industries Ltd 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 Ltd.
- 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 Industries Ltd instruction manual.

### WARRANTY SERVICE

To obtain warranty service please contact your nearest Entec Industries Ltd approved Timberwolf dealer. To obtain details of the nearest facility please contact Entec Industries Ltd at the address on the back 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.





## CERTIFICATE OF CONFORMITY

### Environmental Manufacturing LLP

Entec House,  
Tomo Industrial Estate,  
Stowmarket,  
Suffolk IP14 5AY

Tel: 01449 765800 Fax: 01449 765801

#### E C Declaration of Conformity



Environmental Manufacturing LLP as the designer and manufacturer, certifies that the machine stipulated below complies with all the relevant provisions of the:

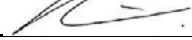
#### Machinery Directive; 2006/42/EC (& other relevant directives)

and the National Laws and Regulations adopting these directives.

**Designer/Manufacturer** : Environmental Manufacturing LLP  
**Description of Machinery** : Self-powered portable machine intended to chip up tree waste prior to disposal.  
**Model** : TW 13/75G  
**Serial No.** *Serial Manufacture*


BSI Transposed Harmonised Standards applied: (including parts/clauses of):

BS EN 12100-1: 2010 Safety of Machinery- Basic concepts, BS EN 13857-1: 2008 Safety of Machinery-Safety distances to danger zones, BS EN 60204-1: 2006 +A1 2009 Safe electrical practices, BS EN 13732-1:2008 Safety of Machinery – Temperatures of touchable surfaces, BS EN 13849-1: 2008 – Safety of Machinery – Safety related parts of control systems, BS13850:2008 safety of Machinery Emergency stop BS EN 982: 1996 + A1 2005 – Safety of Machinery – Hydraulics, BS EN 1088: 1995 + A2 2008 – Safety of Machinery – Interlocking devices, BS EN 13525: 2005 + A2 2009 – Forestry Machinery – Wood chippers – Safety. BS EN 953:1997+A1:2009

“Responsible” Person empowered to sign:  Mr. Jeff Haines  
Position in Company: Technical Director

Date: 31 July 2014










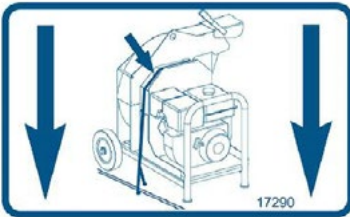




		<b>ENVIRONMENTAL MANUFACTURING LLP STOWMARKET, SUFFOLK IP14 5AY UK</b>			
MODEL		<input type="text"/>			
SERIAL NO.		<input type="text"/>			
CARR. TYP/SN.		<input type="text"/>	GROSS WEIGHT	<input type="text"/>	
NOM. POWER		<input type="text"/>	DATE	<input type="text"/>	






# 19 DECALS

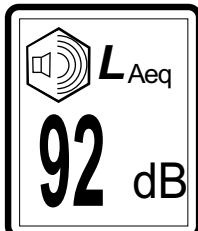


**TIMBERWOLF**  
**TW 13/75G**

Decal	Description	Decal	Description
	616 Hot exhaust		2944 Danger - beware of sharp blades when the rotor housing is open.
	617 High velocity discharge - keep clear		2949 <b>Lifting eye is designed to lift the machine's weight only.</b> 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.
	670 Personal Protective Equipment required		3022 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.
	1662 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.		18393 New drive belts need re-tensioning. When new belts are fitted check tension every 2-3 hours & adjust until tension remains constant.
	4099 Danger. Rotating blades. Keep hands and feet out.		17290 Place tie-down straps here only.
	17294 75mm Maximum Diameter		P637 x 3 Danger. Do not operate without this cover in place.



Decal	Description	Decal	Description
<p>P637</p> 	<p>Caution. Do not put road sweepings in machine as grit will damage blades.</p>	<p>18322</p> 	<p>Danger - Rotating blades inside. Stop engine and remove spark plug cap before removing discharge unit.</p>
<p>P652</p> 	<p>Caution. Avoid standing directly in front of feed funnel to reduce exposure to noise, dust and risk from ejected particles.</p>	<p>P1300</p> 	<p>Danger. Do not use this machine without the discharge unit fitted. Failure to comply may result in serious injury or damage.</p>
<p>P651</p> 	<p>Fuel Here. Risk of fire. Allow engine to cool for 1 minute before refuelling. Use unleaded petrol.</p>		



**TIMBERWOLF**  
**TW 13/75G**

1363

1522

3004

2948

P\*155 X 2

# 21 V-BELT TENSIONING TABLE

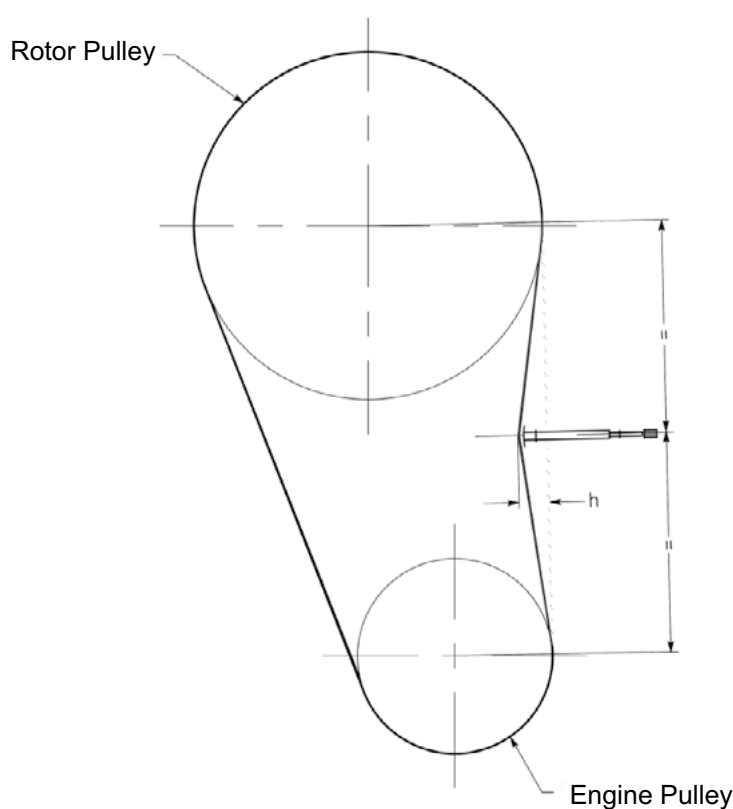


**TIMBERWOLF**  
**TW 13/75G**

## METHOD:

1. Set the deflection distance on the lower scale of the tension gauge so that the underside of the 'o'-ring equals the 'h' value given in the table.
2. Ensure that the deflection force scale is zero'd by pushing the upper 'o'-ring all the way down.
3. Place the tension gauge in the centre of the belt span as shown in the diagram.
4. Press downwards on the rubber buffer, deflecting the belt until the underside of the lower 'o'-ring is level with the belt behind (use a straight edge if there is only 1 belt).
5. Take the reading from the deflection scale of the tension meter (read at the lower edge of the 'o'-ring) & compare this value with that given in the table.
6. Tighten or loosen belts as required following procedure given in this operator's manual.

*Tension gauges are available from Timberwolf spares, quoting part no. 18091*



TW Model No.:				13/75G	190TDHB	190TFTR	190TVGTR	350DHB(t)	PTO100	PTO150	S426 Shredder	S426 TFTR Shredder	PTOS426 Shredder
Rotor Belts	Belt Mffr / Type			Gates Super HC-MN	Gates Super HC-MN	Gates Super HC-MN	Gates Super HC-MN	Gates Super HC-MN	Gates Super HC-MN	Gates Super HC-MN	Gates Super HC-MN	Gates Super HC-MN	Gates Super HC-MN
	Belt Pitch Designation			SPA	SPA	SPA	SPA	SPB	SPA	SPA	SPB	SPB	SPB
	Belt Length in mm			900	1232	1232	1232	2530	900	900	2120	2120	1700
	Belt Deflection		= h	2	3	3	3	8	2	2	7	7	6
	Force Reading		New belt Used Belt	3.26 - 3.50 2.80 - 3.03	5.69 - 6.1 4.88 - 5.28	5.68 - 6.08 4.87 - 5.28	5.54 - 5.94 4.75 - 5.14	8.32 - 8.91 7.13 - 7.72	4.36 - 4.69 3.74 - 4.04	4.36 - 4.67 3.74 - 4.04	7.95 - 8.52 6.81 - 7.38	7.96 - 8.53 6.82 - 7.39	6.50 - 6.90 5.60 - 6.00

## TIPS ON BELT TIGHTENING:

- There will normally be a rapid drop in tension during the run-in period for new belts. When new belts are fitted, check the tension every 2-3 hours & adjust until the tension remains constant.
- The best tension for V-belt drives is the lowest tension at which the belts do not slip or ratchet under the highest load condition.
- Too much tension shortens belt & bearing life.
- Too little tension will affect the performance of your machine especially in respect of no-stress devices.
- Ensure that belt drives are kept free of any foreign materials.
- If a belt slips - tighten it!

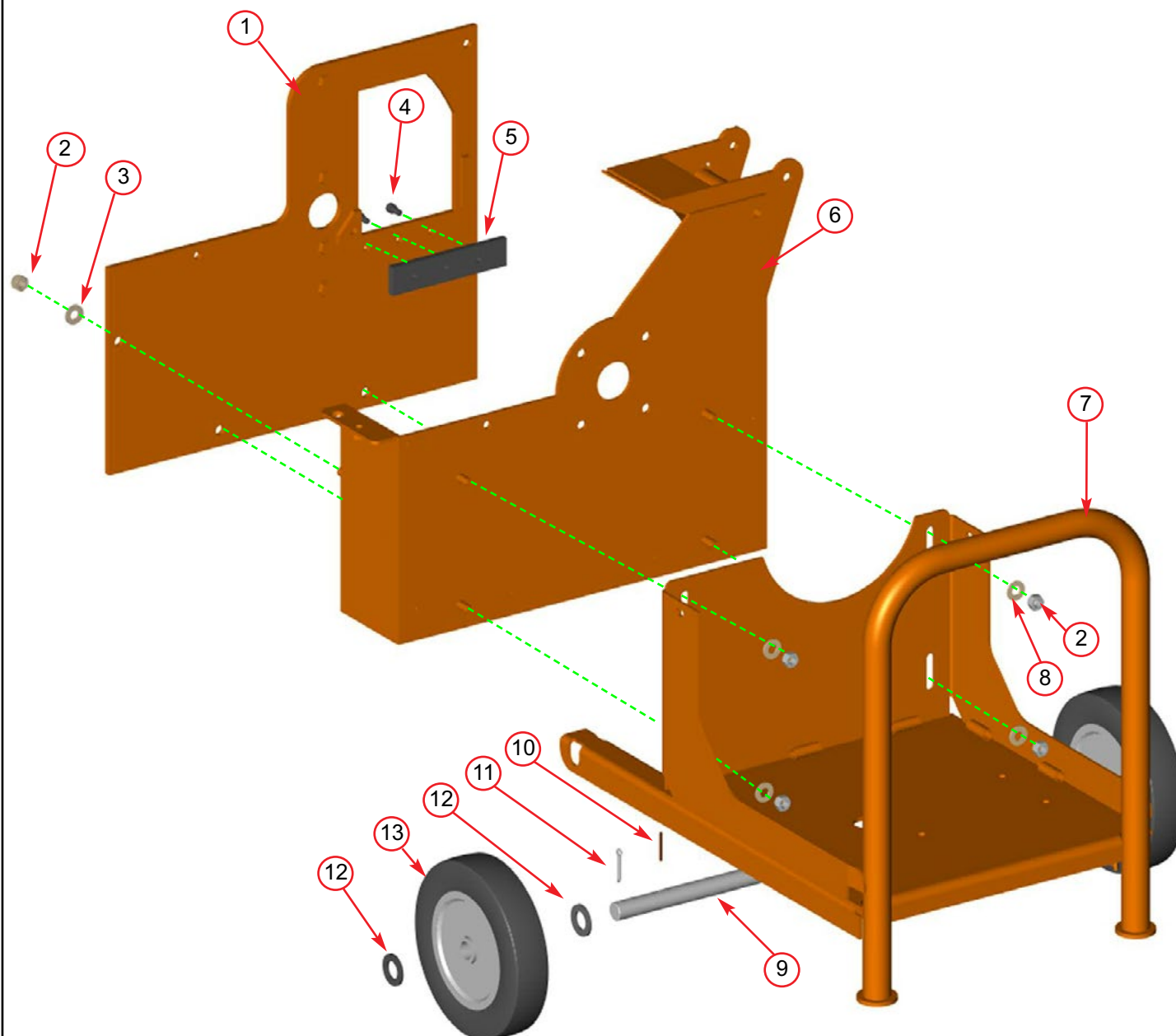




# **PARTS LISTS**

*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.*

	<i>Page No.</i>
<b>CHASSIS / ROTOR HOUSING</b>	<b>23</b>
<b>DECALS</b>	<b>19 &amp; 20</b>
<b>ENGINE</b>	<b>24</b>
<b>FUNNEL / DISCHARGE</b>	<b>25</b>
<b>ROTOR</b>	<b>26</b>

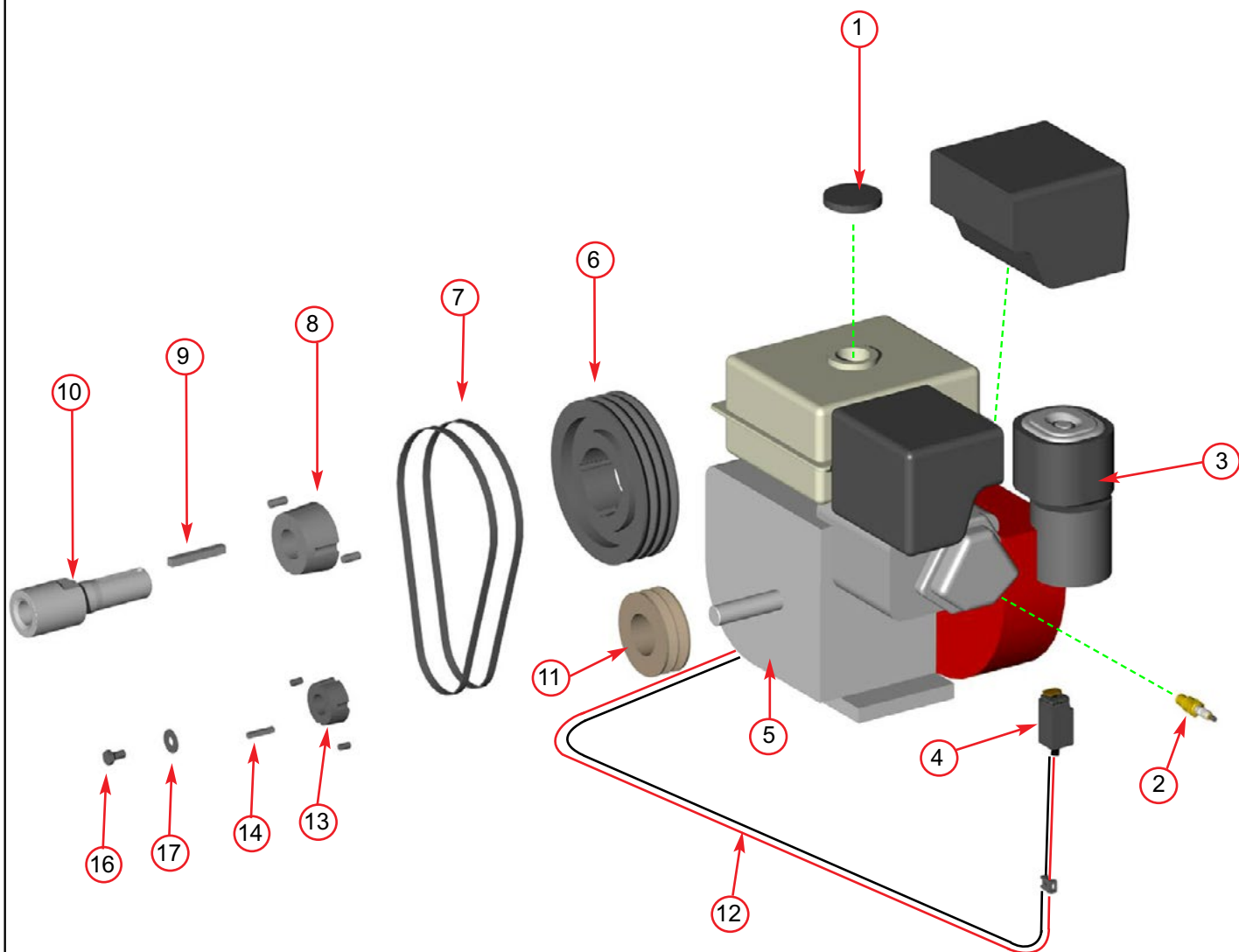


### PARTS REQUIRED FOR MODELS WITH SOLID TYRES

Item	Part No	Part Name	Q'ty
1	1567FO	Front Plate	1
2	0644	M12 P Nyloc Nut	4
3	0702	M12 A Washer	3
4	0345	Capheads	3
5	0105MH	Gravity Anvil	1
6	18452FO	Main Rotor Housing	1
7	2475FO	Chassis	1
8	0704	M12 C Washer	4
9	2476MS	Axle	1
10	0068M	Roll Pin	4
11	0528	Split Pin	2
12	0707	M24 A Washer	4
13	2478	Wheel	2

### PARTS REQUIRED FOR PNEUMATIC TYRE OPTION

Item	Part No	Part Name	Q'ty
9	1043MS	Axle	1
10	18191	Roll Pin	4
11	0528	Split Pin	2
12	0705	Thick Washer	2
12a	0707	Thin Washer	4
13	1641	Pneumatic Tyres	2



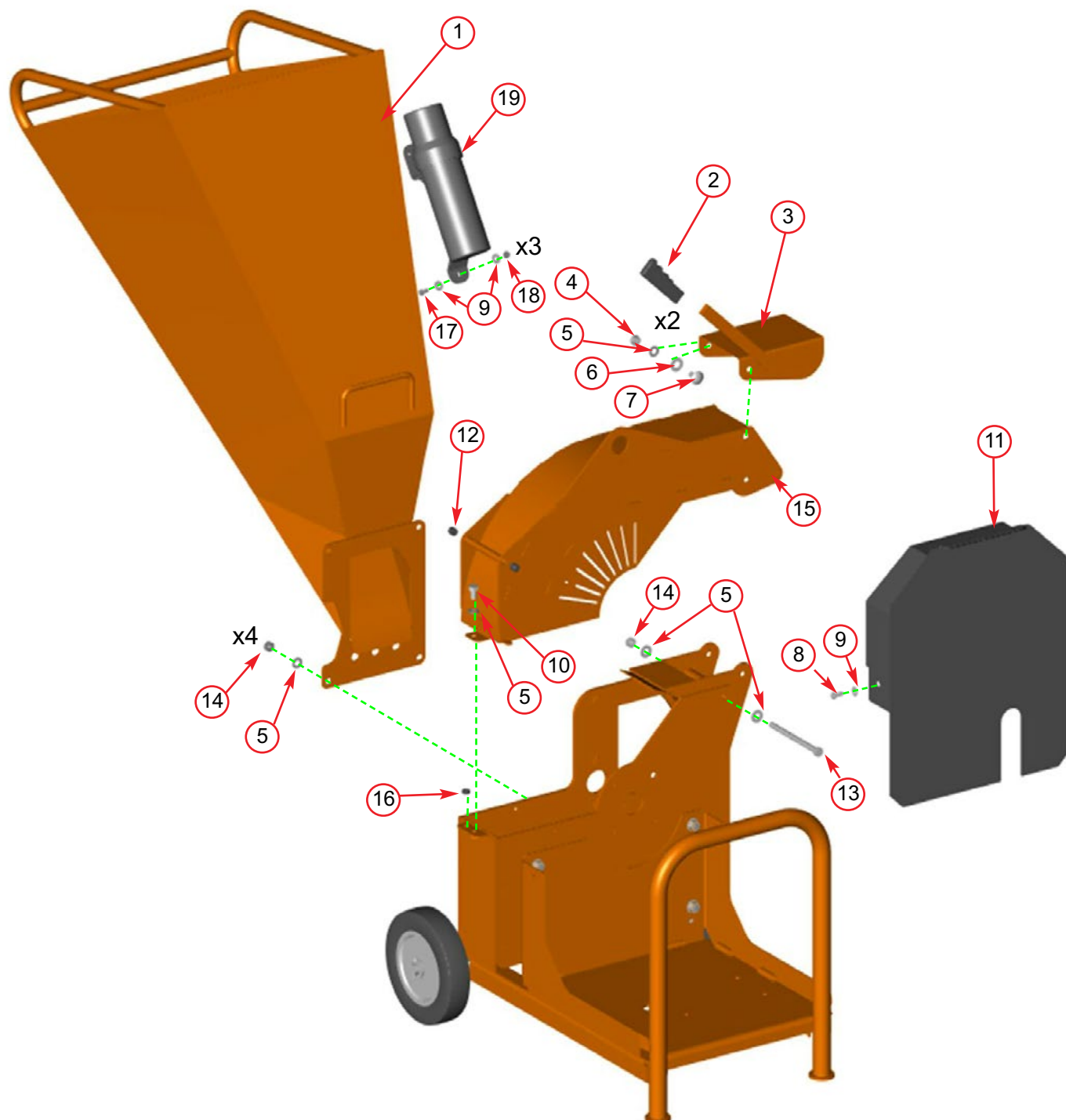
Item	Part No	Part Name	Q'ty
1	supp'd with engine	Fuel Cap	1
2	supp'd with engine	Spark Plug	1
3	supp'd with engine	Air Filter	1
4	1348	Safety Switch	1
5	1172	Honda Engine	1
6	1351	Pulley 200-3 SPA	1
7	1533	Belt 900 SPA 2	2
8	0410	Bush 2517 x 38mm	1

Item	Part No	Part Name	Q'ty
9	18960M	Rotor Shaft Key	1
10	18948	Rear Shaft	1
11	1135	Pulley 118-2 SPA	1
12	2494	Stop Loom	1
13	0405	Bush 1610 x 1"	1
14	0061	Engine Shaft Key	1
16	17283	Long Socket Head Screw	1
17	4344	M10/30 Washer	1

# 25 FUNNEL/DISCHARGE

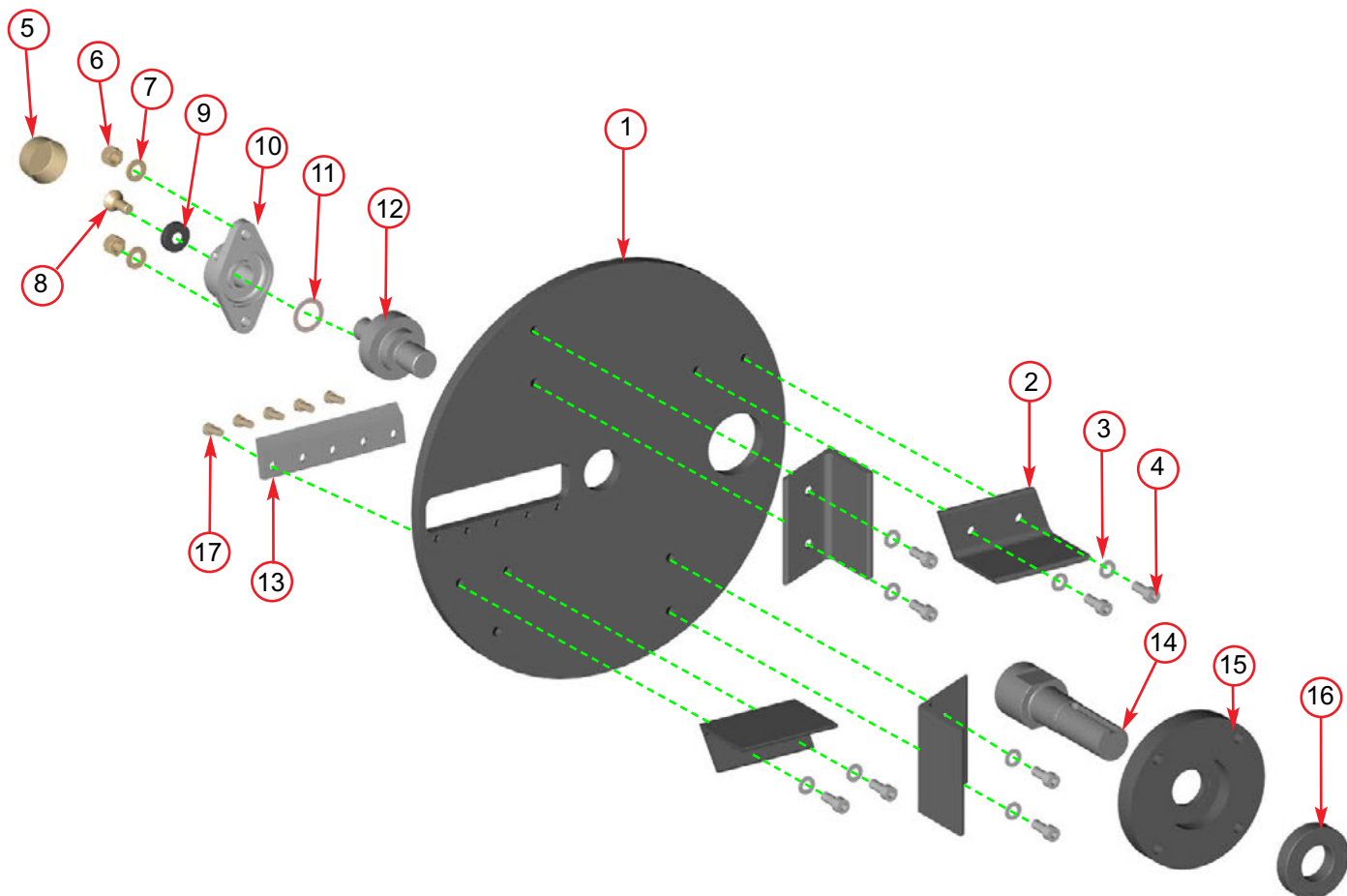


**TIMBERWOLF**  
**TW 13/75G**



Item	Part No	Part Name	Q'ty
1	1642FO	Funnel	1
2	0134	Plastic Grip	1
3	1052FO	Discharge Bucket	1
4	0045	M12 T Nyloc Nut	2
5	0702	M12 A Washer	11
6	1143	M16 A Washer	2
7	0320	M12/25 Cup Square	2
8	0346	M8/20 Bolt	2
9	0712	M8 C Washer	8
10	0318	M12/20 Bolt	1

Item	Part No	Part Name	Q'ty
11	2000FB	Belt Guard	1
12	2493	13 mm Plastic Plug	2
13	17336	M12/170 Bolt	1
14	0046	M12 Plain Nut	5
15	18453FO	Discharge	1
16	0654	Rubber Grommet	1
17	0347	M8/20 Button Head	3
18	0481	M8 T Nyloc Nut	3
19	P*144	Operator's Manual Cannister	1



Item	Part No	Part Name	Q'ty
1	17342M	Rotor	1
2	17317F	Fan Blade	4
3	0701	M10 A Washer	8
4	0305	M10/25 Caphead	8
5	0633	Bearing Cap	1
6	0644	M12 P Nyloc Nut	2
7	0702	M12 A Washer	2
8	0428	M12/30 C'sunk Patched	1
9	0713	Heavy C'sunk Washer	1

Item	Part No	Part Name	Q'ty
10	0648	Bearing Front SFT25	1
11	0796	20 thou Shim	As Req'd
12	1061M	Nose Shaft	1
13	071MH	Blade	1
14	18948M	Rear Shaft	1
15	4063MCB	Bearing Housing Rear	1
16	0495	Bearing	1
17	0065	M8/20 Blade Bolt	5



**50 HOUR SERVICE**

Date:

Hours:

Invoice number:

Signature:

Next service due:

Authorised dealer stamp

**11 MONTH WARRANTY SERVICE CHECK**

Date:

Hours:

Invoice number:

Signature:

Next service due:

Authorised dealer stamp

**23 MONTH WARRANTY SERVICE CHECK**

Date:

Hours:

Invoice number:

Signature:

Next service due:

Authorised dealer stamp

# SERVICE RECORD



**TIMBERWOLF**  
**TW 13/75G**

**28**

Date:

Hours:

Invoice number:

Signature:

Next service due:

Authorised dealer stamp

Date:

Hours:

Invoice number:

Signature:

Next service due:

Authorised dealer stamp

Date:

Hours:

Invoice number:

Signature:

Next service due:

Authorised dealer stamp

Date:

Hours:

Invoice number:

Signature:

Next service due:

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