



# TIMBERWOLF<sup>®</sup>

Lead the pack

## TW 13/75G WOOD CHIPPER



## INSTRUCTION MANUAL

[timberwolf-uk.com](http://timberwolf-uk.com)

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

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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.***

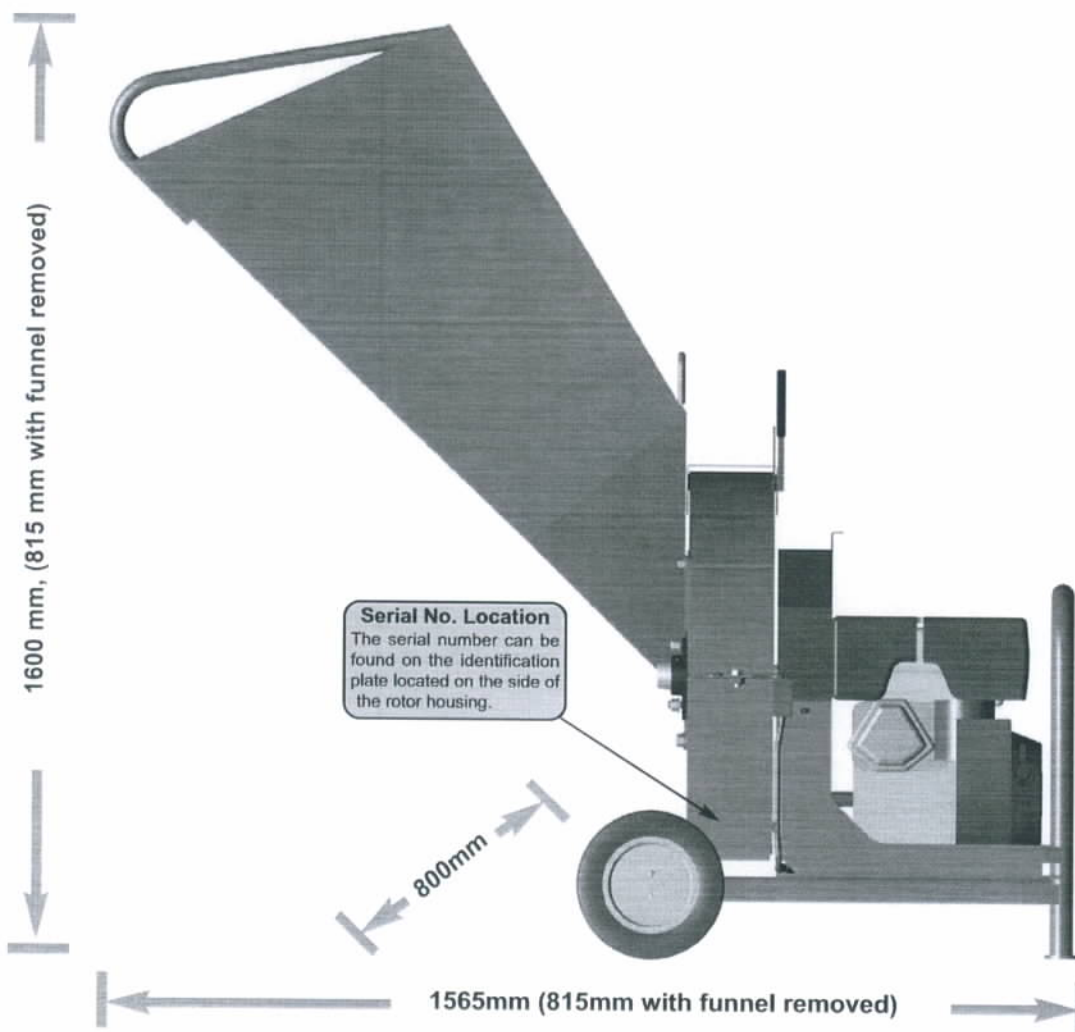
**This caution symbol indicates important safety messages in this manual. When you see this symbol, be alert to the possibility of injury to yourself or others and carefully read the message that follows.**



## 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

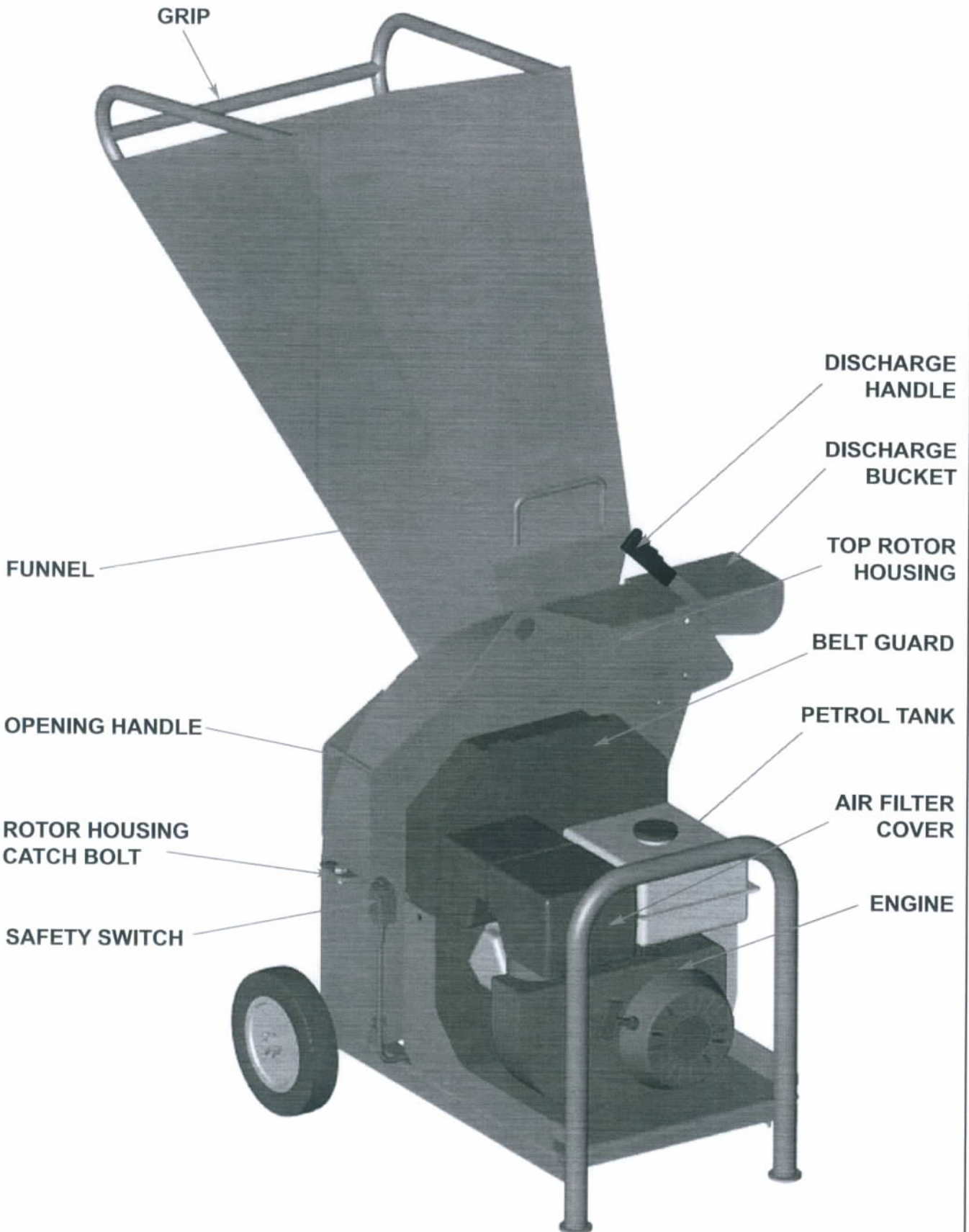


### TIMBERWOLF TW 13/75G SPECIFICATION

<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>		

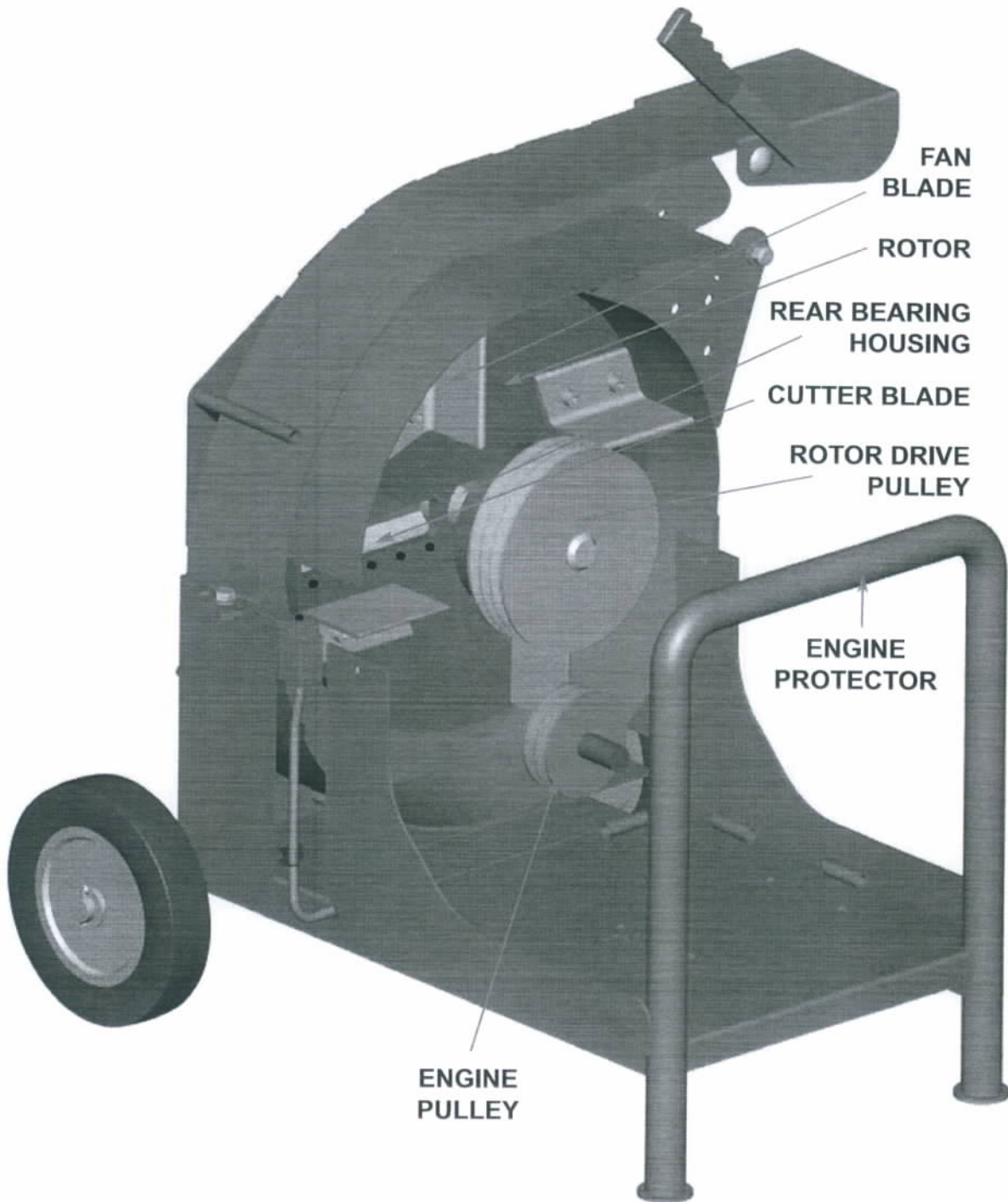


# PARTS LOCATOR





## **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 brush may push you to one side causing danger. Badly twisted brush 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.



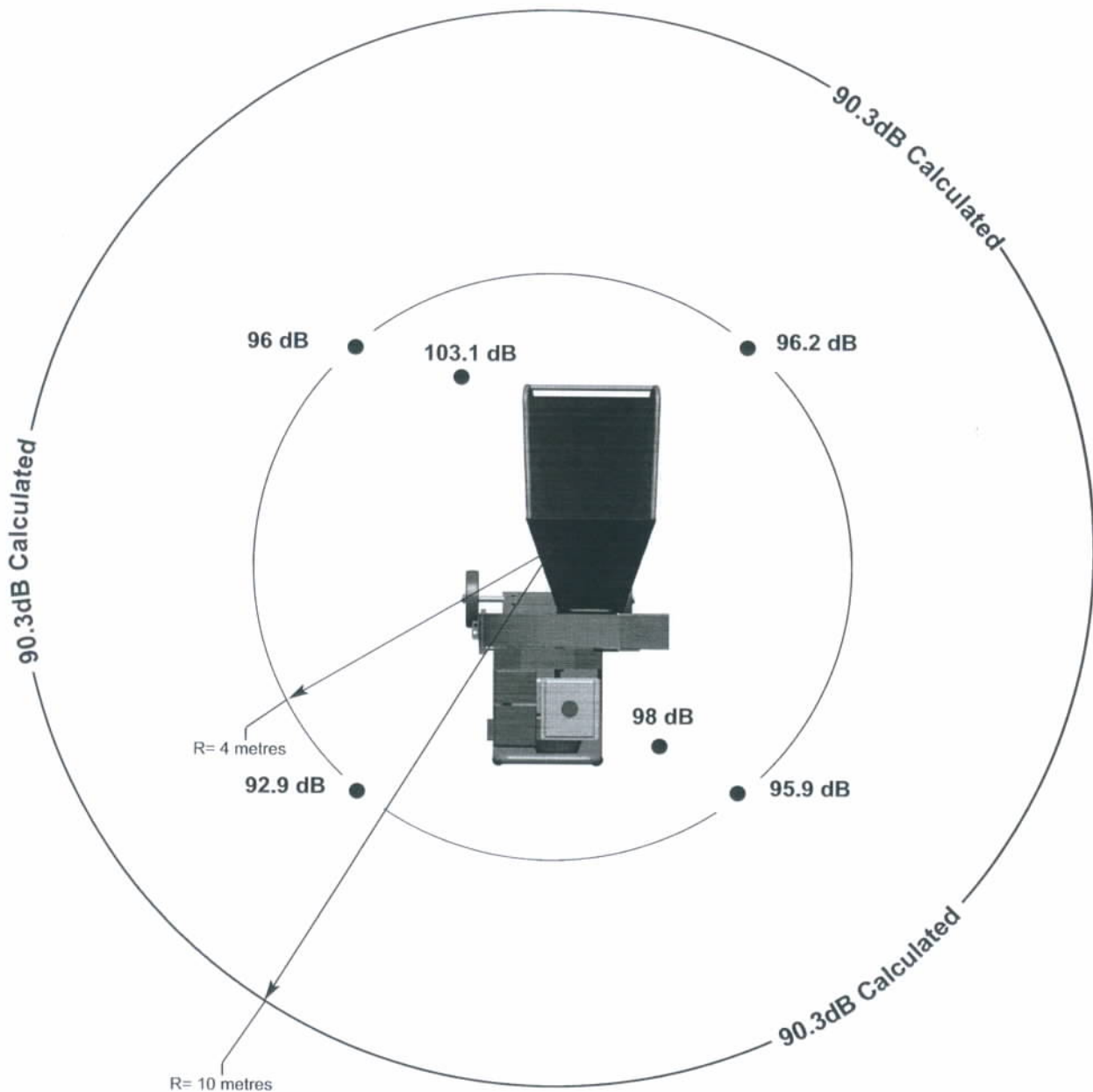


## NOISE TEST

**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.
- 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.

### 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.**

