

# TIGER

**TOUGH  
OUTDOOR  
EQUIPMENT**

## TIGER CS9-392V & CS9-392VRT (ROAD TOWABLE) OWNERS MANUAL



Distributed in New Zealand by:  
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**S STEVENS  
GROUP**

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## BEFORE YOU BEGIN

Congratulations on the purchase of your TIGER Chipper Shredder Model CS9-392V

The TIGER Chipper Shredder is proudly NZ made, designed to chip and shred your garden waste into fine mulch to use back in your garden as rich compost. Improve the health of your soil and plants; retain moisture and reduce weeds. Turn fallen tree or palm branches, pruning's, bark and leaves, hay into garden mulch.

This document contains information on how to safely operate your new machine, and is based on information available at the time of publication. Stevens Group continually research, develop and improve their equipment. In doing so, we reserve the right to add improvements or make changes to our product without notice, without obligation for equipment previously sold.

### Please send us your Warranty Form

The Warranty form is included at the back of this Owners Manual. Please take the time to fill in the information, and send us your completed form. We can then register your machine and commence coverage under the Limited Warranty.

### Serial Number

Your machine has a Serial Number. Record this number and the Engine Serial number below.

**MACHINE SERIAL NUMBER:** \_\_\_\_\_

**ENGINE SERIAL NUMBER:** \_\_\_\_\_

*The Vanguard Engine Warranty applies to new purchased Vanguard product identified by the Engine Serial Number. Save your proof of purchase receipt. If you do not provide proof of the initial purchase date at the time warranty service is requested, the manufacturing date of the product will be used to determine the warranty period. Product registration is not required to obtain warranty service on Vanguard products.*

### Fuelling your engine

Before starting check the engine oil and petrol levels.

Use a good quality engine oil (either SAE 10W30 or SAE 10W40) and 91 Unleaded Petrol.

The Vanguard 13HP requires approximately 1.1 Litre of oil to fill the engine.

Please refer to engine manuals for more details:

- [https://www.briggsandstratton.com/au/en\\_au/support/manuals.html](https://www.briggsandstratton.com/au/en_au/support/manuals.html)

### Tyre Pressure

The maximum recommended tyre pressure is 25 PSI. Over inflation may cause serious damage.

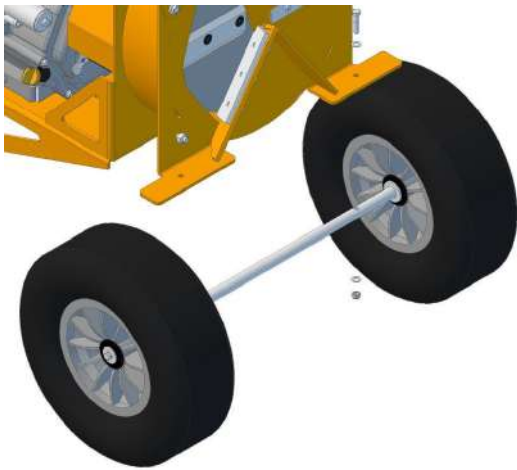
### Engine Servicing

For servicing of the engine, please refer to the engine manual.

CONTACTING STEVENS GROUP		
ADDRESS	PHONE	EMAIL
293 Landing Drive Mangere, Auckland 2022	0508 STEVENS or +64 9 275 0443	sales@stevensgroup.co.nz

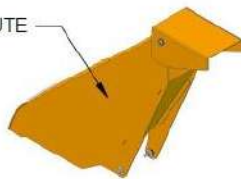
# CS9-392V ASSEMBLY DIAGRAM

## 1. WHEEL & AXLE

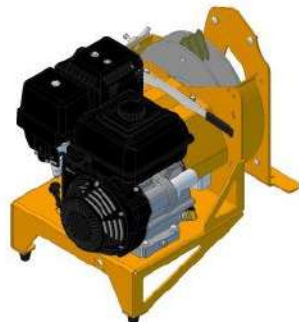
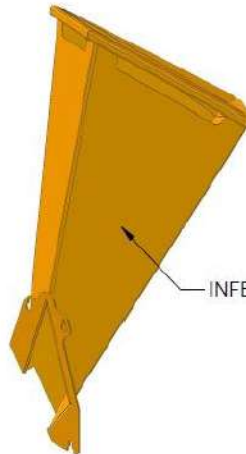


Remove main chipper body, wheel and axle from box.  
Fasten axle to chipper body using fasteners supplied in axle shaft.

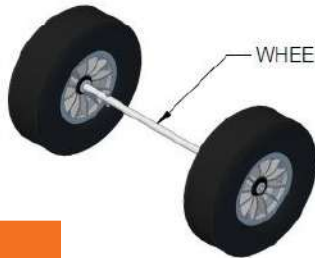
DISCHARGE CHUTE



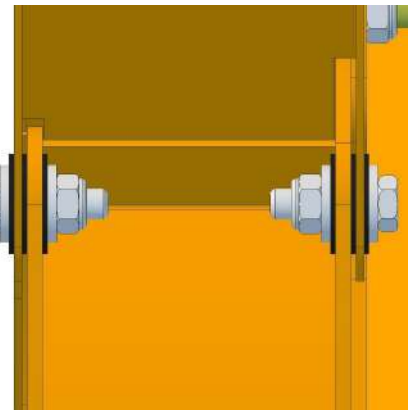
INFEED CHUTE



WHEEL & AXLE

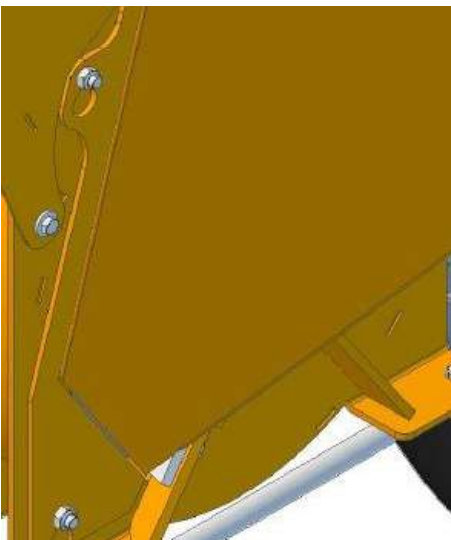


## 2. DISCHARGE CHUTE



Remove Discharge chute from box.  
Fasten to chipper body using hex bolt, washers and nyloc nut as attached.

## 3. INFEED CHUTE



Remove Infeed chute from box.  
Slide Infeed chute down into place then fix with nyloc nut as supplied on unit.  
Tighten hex bolts at bottom to stop chute from rattling and tighten lock nuts.

# SAFETY

Preventing accidents is the responsibility of every equipment owner. Ensure you have been instructed by your authorised dealer on all safety issues, both general and specific and the operation and maintenance of the chipper shredder before operating machinery.

## Intended uses of machine

Do not use for any purpose other than for which the machine is designed. If you have any doubts contact your authorised dealer. Do not modify the design of the machine.

## Operator Competency

Do not allow persons to operate machinery without full and proper instruction in the use of the machine, adjustments maintenance and the factors of safe operation.

## Safe Operating Procedures



- Safety equipment must be worn while operating chipper, i.e. safety glasses, ear muffs and work gloves. Persons not wearing safety equipment should not be close to an operating machine.
- Avoid wearing loose-fitting clothing.
- Before starting the machine, check that all screws, nuts, bolts, and other fasteners are properly secured and guards and screens in place. Replace damaged or unreadable warning and operating labels.
- Use extra care in handling fuels. They are flammable and vapours are explosive.
  - Use only an approved container.
  - Never remove fuel cap or add fuel with the engine running. Allow engine to cool before refuelling.
  - Do not smoke.
  - Never refuel the machine indoors.
  - Never store the machine or fuel container inside where there is an open flame, such as a water heater.
  - If fuel is spilled, do not attempt to start the engine, but move the machine away from the area of spillage before starting.
  - Always replace and securely tighten fuel cap after refuelling.
- Before starting, ensure the chipper is positioned on level ground. Do not operate the machine on a paved or gravel surface where ejected material could cause injury.
- Keep children and spectators clear of the work area at all times and do not operate the machine where there is an immediate hazard to onlookers.
- Do not allow children to operate this equipment.
- Do not put your hands or any other part of the body more halfway into the infeed chute, or near any moving part. Keep your face and body away from the infeed and discharge opening.
- Carbon monoxide can be extremely dangerous in enclosed areas; do not run the machine in an enclosed area since the exhaust from the engine contains carbon monoxide, which is colourless, odourless, and tasteless.
- Always shut down the machine before shifting it.
- Always make sure that the engine is shut down and that the cutting disk and engine are at a complete standstill before opening the cutting disk housing.
- Before inspecting or servicing any part of the machine, shut off the power source, disconnect the spark plug wire from the spark plug, and make sure that all moving parts have come to a complete stop.

## Identifying Hazards and Risks

Identify hazards and risks, and take preventative steps to avoid accidents and minimise risk. Possible hazards include, but are not limited to, moving parts, thrown objects, weight of machine and components and the operating environment.

## OPERATION

- Position the machine level and stable to avoid unnecessary vibrations.

### Starting Procedure

#### Disengaging the belt drive:

For easy starting of the engine, disengage the belt drive by pulling the lever in the counter clock-wise direction until it comes to a stop.

#### Starting the engine:

1. Turn the fuel valve onto the ON position
2. Move the choke lever to the CLOSED position (Note: the choke may not be required if the engine is warm or the air temperature is high)
3. Move the throttle lever to the half way position
4. Turn the engine switch to the ON position
5. Pull the starter grip lightly until resistance is felt, then pull briskly
6. After a few seconds, gradually move the choke lever to the OPEN position (Refer to engine manual for more detailed instructions)

#### Engaging the Rotor disk:

With engine running at about one third revs, gradually and slowly engage the belt tension lever in a clock-wise direction, until it comes to a stop. This has to be done slowly to allow the cutting disk to pick up speed; otherwise the engine will stall because there is high inertia in the cutting disk. Then increase the engine to full speed.

### Shutdown Procedure

1. Push the throttle control lever to the idle position
2. Turn the switch to STOP
3. The rotor will gradually come to a standstill.

**WARNING! Do not disengage the belt drive with the machine running at full revs, as this may cause friction and vibration on the belt drive.**

## Operation

Keep proper balance and footing at all times. Do not overreach. Never stand at a higher level than the base of the machine when feeding material into it.

Feed only clean material into the machine. Foreign matter like soil, sand, grit, stones, pieces of metal, etc. will damage the sharp edge of the cutting knives. Root balls and dead wood will also blunt the blades quickly. Operating the machine with blunt blades causes excessive vibration which may result in damage to the machine.

If the cutting mechanism strikes any foreign objects or if the machine should start making any unusual noise or vibration, immediately shut off the engine and allow the machine to stop. Disconnect the spark plug wire from the

spark plug and proceed as follows:

1. Inspect for damage.
2. Replace or repair any damaged parts.
3. Check for and tighten any loose parts.
4. Do not attempt to repair the machine unless you are competent to do so.

Avoid feeding short, stubby pieces of wood into the machine, as they tend to bounce and spin in the infeed chute. Feed these short pieces together with longer pieces. After becoming familiar with the machine, prune to suit its capabilities.

Because the chipper is self-feeding and has a large infeed opening, the machine can be stalled with branches that are too big for processing. You will have to hold these branches back and feed the machine with care until you are familiar with its capacity. Cutting large pieces into short lengths approx. 300mm long will help feeding without stalling.

Feed limbs and branches through butt end first, leaving the bushy head on. This helps guide the limb down the infeed chute, reduces spinning and the occurrence of ejection of small pieces back up the infeed chute. Some side branches may require pre-cutting so that the branch will 'self-feed' more efficiently.

While operating the machine keep a wooden stick handy, approx. 60 mm diameter x 600 mm long. This stick will be useful for pushing in short, brushy and very leafy materials and to keep the infeed chute clear.

It is always advisable to process freshly cut materials, as wooden branches get very hard and springy when dried out. They are then more awkward to handle and the knives will become blunt much quicker.

The chipper can clog up with soft, wet or fibrous materials. However, if you feed soft materials intermittently with branches, there should be no problem, as the wood chips tend to clean out any residue left in the machine.

If the machine becomes clogged, shut off the engine and disconnect the spark plug wire and ensure rotor height has stopped spinning before opening chipping chamber and cleaning debris.

Do not overload the chipper. If the rotor is slowing down, feed the material in slower.

We do not advise washing or water blasting the machine. Brush, blow or wipe clean.

The engine is fitted with oil alert and will not start if the oil level in the sump is too low. It may also stop if it is operated on a steep slope.

Keep all guards and deflectors in place and in good working condition.

Do not tamper with the engine governor settings on the machine; the governor controls the maximum safe operating speed and protects the engine and all moving parts from damage caused by overspeed. Seek authorized service if a problem exists.

Keep the engine clean of debris and other accumulations to prevent damage to the engine or possible fire.

Do not transport this machine while the engine is running.

Shut off the engine whenever you leave the work area.

**WARNING! Do not open the housing unless the engine and cutting disk are completely stopped.**

**WARNING! Do not operate the machine wearing loose clothing.**

Stalks, leaves, palm fronds, vines, bark, roots, garden cuttings, hay, dry manure and vegetable matter can be processed. Do not process soil, sand, stones, gravel, metal or bone.

The maximum capacity is 90mm diameter branches. Depending on the type and hardness of wood, you need to limit the material to smaller lengths. Paper and cardboard can be processed. A better result is obtained if the material is wet prior to processing.

# MAINTENANCE

When this equipment is stopped for servicing, inspection, or storage, make sure the spark plug wire is disconnected from the spark plug. Allow the machine to cool before making any inspections, adjustments, etc. Maintain the machine with care and keep it clean by blowing, brushing or wiping it down. **DO NOT WASH OR USE WATER.**

Store the machine out of the reach of children and where fuel vapor will not reach an open flame or spark. For extended storage periods, run the unit dry of fuel. Always allow the machine to cool before storing.

SERVICE AND MAINTENANCE SCHEDULE						
COMPONENT	MAINTENANCE REQUIRED	REFER TO ENGINE OPERATORS MANUAL	FREQUENCY			
			BEFORE EACH USE	EVERY 8HRS	EVERY 25HRS	EVERY 50HRS
ENGINE OIL	CHANGE <sup>1</sup>	✓				
FUEL FILTER	REPLACE	✓				
SPARK PLUG	CHECK CONDITION & GAP	✓				
ENGINE OIL	CHECK / FILL		✓			
FUEL TANK	CHECK / FILL		✓			
ALL INTERNAL & EXTERNAL NUTS & BOLTS	CHECK TIGHTNESS		✓			
TYRE PRESSURE	CHECK		✓			
CHIPPER ANVIL	CHECK CLEARANCE & RE-TORQUE TO 40 FT-LBS <sup>2</sup>			✓		
CHIPPER BLADES	CHECK SHARPNESS & RE-TORQUE TO 18.6 FT-LBS <sup>2</sup>			✓		
SHREDDER BLADE	CHECK CONDITION			✓		
ENTIRE MACHINE	CLEAN			✓		
DRIVE BELT	CHECK				✓	
BELT TENSION	CHECK				✓	
BELT/PULLEY ALIGNMENT	CHECK				✓	
ROTOR SHAFT GREASE NIPPLES	LUBE			✓		
(1) PERFORM MORE FREQUENTLY UNDER EXTREMELY DUSTY CONDITIONS						
(2) PERFORM MORE FREQUENTLY WHEN CHIPPING DRY OR DIRTY WOOD						

## Chipper Blade Re-sharpening

When the chipper blades are blunt, the machine will lose its self-feeding action and the material has to be pushed in. Often it comes out in long strips.

The chipper blades need to be turned over to present a new edge if there is one, or remove for sharpening. To remove the blades, open the discharge chute and remove the external cover located on the chassis below the infeed chute. With a 17mm ring spanner and a 6mm Allen Key remove the blades. Be careful not to drop the nuts, bolts or blades into the chipper.



The chipper blades should be sharpened on a surface grinder or replaced with new ones. Make sure there is plenty of coolant used when grinding, to avoid softening of the material. The cutting angle is critical for the performance of the chipper and should be 45°. If you are unable to re-sharpen the blades yourself, either contact a professional saw doctor. Normally only a slight touch up is needed. In this way your blades should last for a long time.

Remount the chipper blades, making sure that all mounting surfaces are cleaned beforehand. Use Thread locker 269 Loctite on the bolts and torque to 18.6 ft-lb.

The clearance between the blade and anvil should be 2mm. Then turn the rotor by hand and check if the rotor turns freely.

**WARNING! Do not operate your chipper with blunt blades. This will cause excessive vibration which may result in damage to the machine.**

### Shredder Knife Maintenance

Inspect the shredder knives for edge damage. If damaged the knives can be turned around to present a new edge, if this has not been done previously. If both edges on the knives are used, replace the knives.

Remove M6 x 30 bolt and nyloc nut. Turn or replace knives.

**WARNING! It is critical to maintain rotor balance, so replace knives in a set and ensure all spacers and washers are replaced in their correct position. Always replace M6 x 30 bolts and nyloc nuts with new ones. Do not reuse them.**

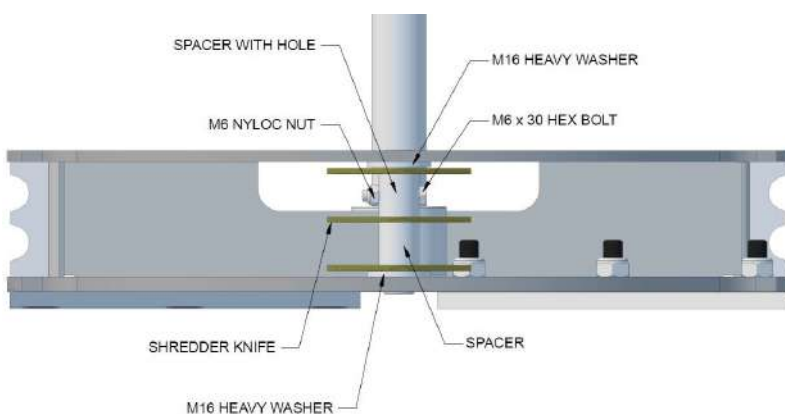
### Anvil Adjustment

The anvil is reversible, and can be used on all four edges. Normally the edges will last for a long time. When the edge is rounded off, it can be reversed. When all edges are worn, the anvil can be sharpened or replaced.

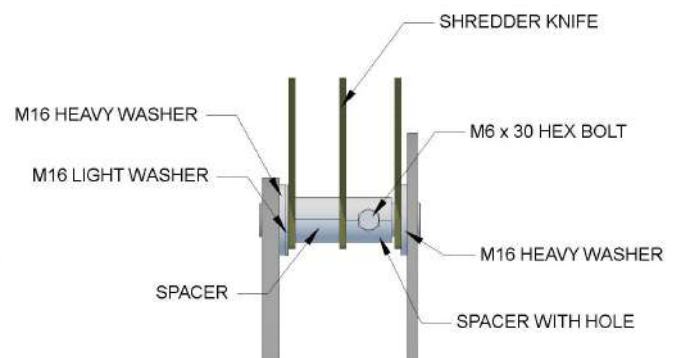
The clearance between the blade and anvil should be 2mm. A piece of cardboard of the right thickness is usually a good gauge for resetting the anvil. Always ensure these bolts are properly tightened to 40 ft-lb.

If there is not enough clearance, the blade edge may touch the anvil through deflection when cutting heavy branches and damage the sharp edge. Too much clearance will allow small twigs and fibrous materials to be dragged through without being cut.

**PLAN VIEW: ROTOR & SHREDDER KNIFE SETUP**



**SIDE VIEW: ROTOR & SHREDDER KNIFE SETUP**

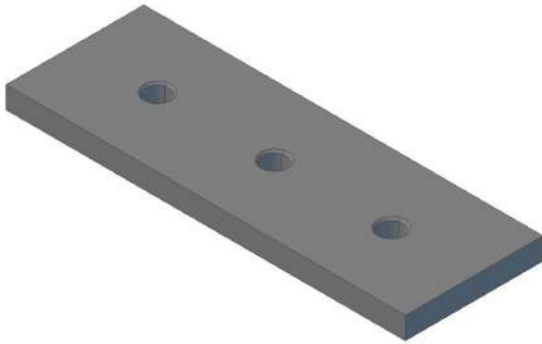


## WEAR PARTS

### ANVIL

Part Number: 1619

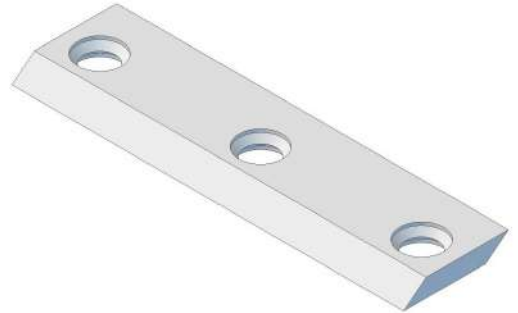
QTY per Unit: 1



### CHIPPER BLADE

Part Number: CP10010052

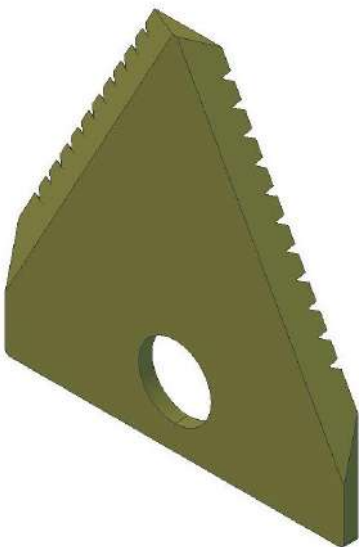
QTY per Unit: 2



### SHREDDER BLADE

Part Number: 070 007 060

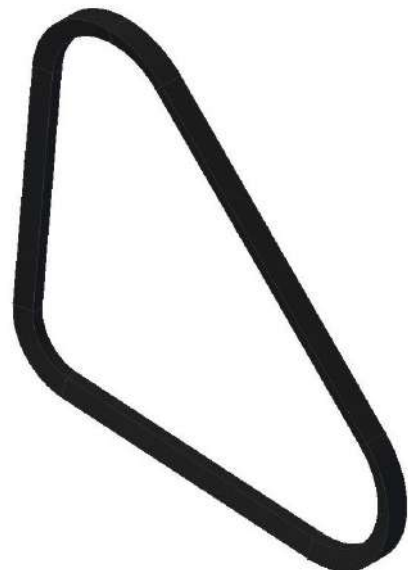
QTY per Unit: 6



### PULLEY VEE BELT

Part Number: BX27

QTY per Unit: 2

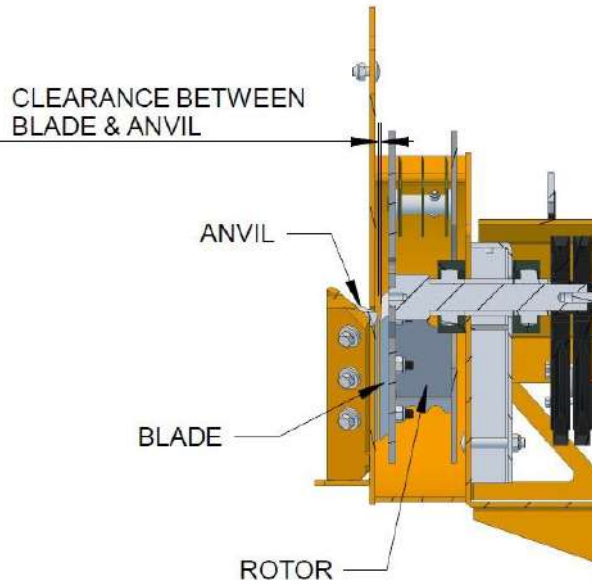


## SPECIFICATIONS

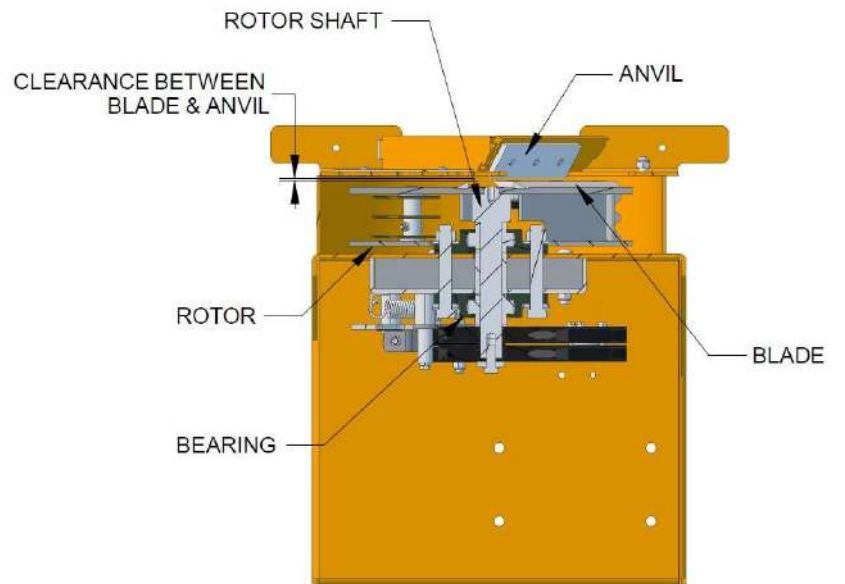
MODEL	CS9-392V	CS9-392V Road Towable
<b>CAPABILITIES</b>	2-in-1 Chipper Shredder	2-in-1 Chipper Shredder
<b>CHIPPING CAPACITY</b>	90mm / 3 1/2" Chipping	90mm / 3 1/2" Chipping
<b>L x W x H</b>	L 1345mm x H 1515mm x W 965mm	L 2360mm x H 1630mm x W 1240mm
<b>INFEEED CHUTE OPENING</b>	475mm x 475mm	475mm x 475mm
<b>CHIPPER BLADES</b>	2 x Double Edge Tool Steel Blade	2 x Double Edge Tool Steel Blade
<b>SHREDDER KNIVES</b>	6 x Serrated Flail Blade	6 x Serrated Flail Blade
<b>FEED SYSTEM</b>	Gravity / Self Feed	Gravity / Self Feed
<b>INFEEED CHUTE</b>	Large Single Infeed Chute	Large Single Infeed Chute
<b>WHEELS</b>	Pneu Wheel & Tyre PWW200-166T	13" x 5" Wheel & Tyre
<b>ENGINE</b>	Vanguard 13 Gross HP	Vanguard 13 Gross HP
<b>FUEL CAPACITY/ FUEL TYPE</b>	6.6 Litres 91 Unleaded	6.6 Litres 91 Unleaded
<b>FINISH</b>	Zinc Plated, Powder Coated	Zinc Plated, Powder Coated
<b>ACCESSORIES</b>	Draw Bar	
<b>WARRANTY</b>	<p><b>TIGER Chipper Shredder:</b> 1 year domestic warranty (unregistered)</p> <p><b>TIGER Chipper Shredder:</b> 2 year domestic warranty (registered)</p> <p><b>Vanguard Engine:</b> 3 year limited warranty</p>	<p><b>TIGER Chipper Shredder:</b> 1 year domestic warranty (unregistered)</p> <p><b>TIGER Chipper Shredder:</b> 2 year domestic warranty (registered)</p> <p><b>Vanguard Engine:</b> 3 year limited warranty</p>

# CS9-392V BLADE & ANVIL DIAGRAMS

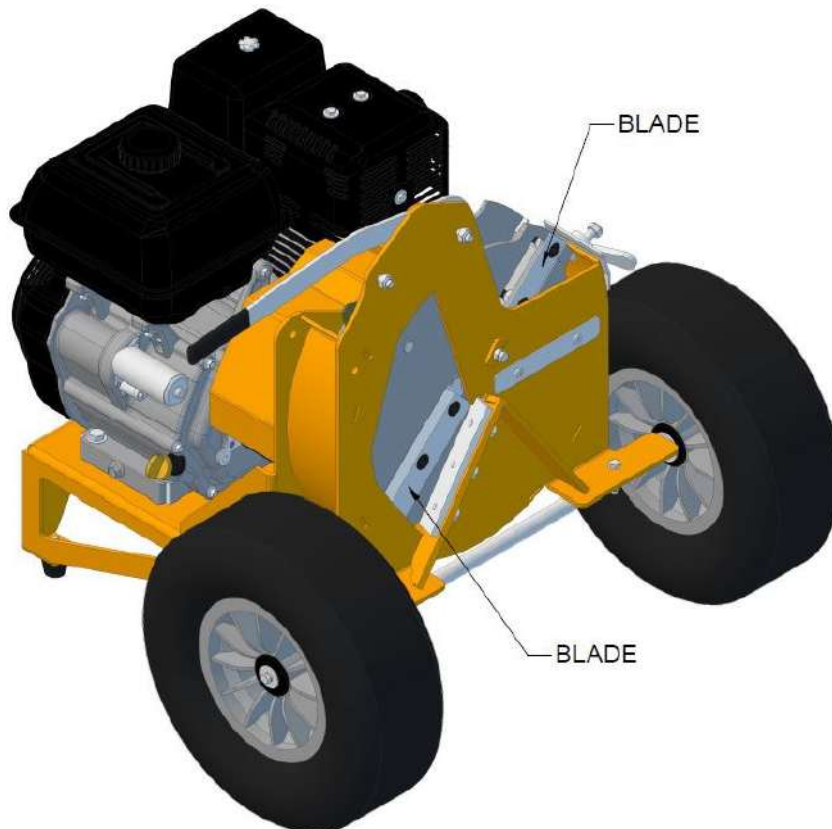
## SIDE VIEW: BLADE & ANVIL SET UP



## TOP VIEW: BLADE & ANVIL SET UP

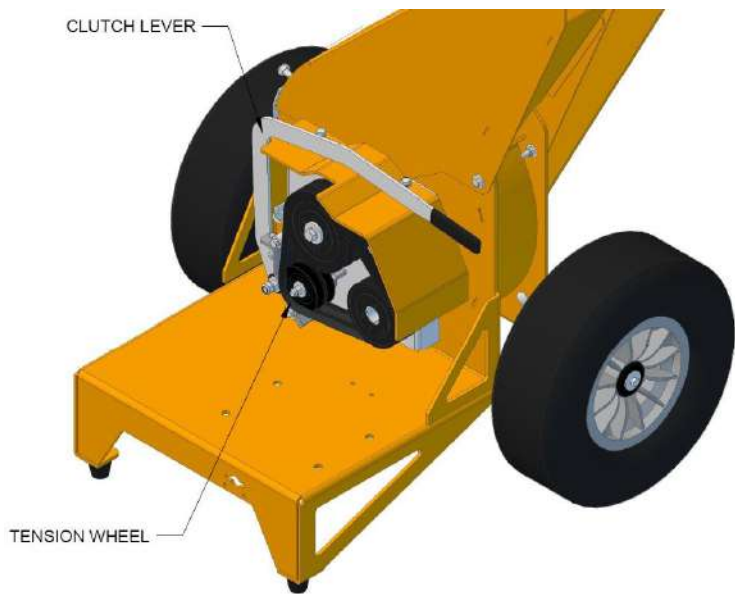


## 3D VIEW: BLADE & ANVIL SET UP



# CS9-392V BELT TENSION & REPLACEMENT

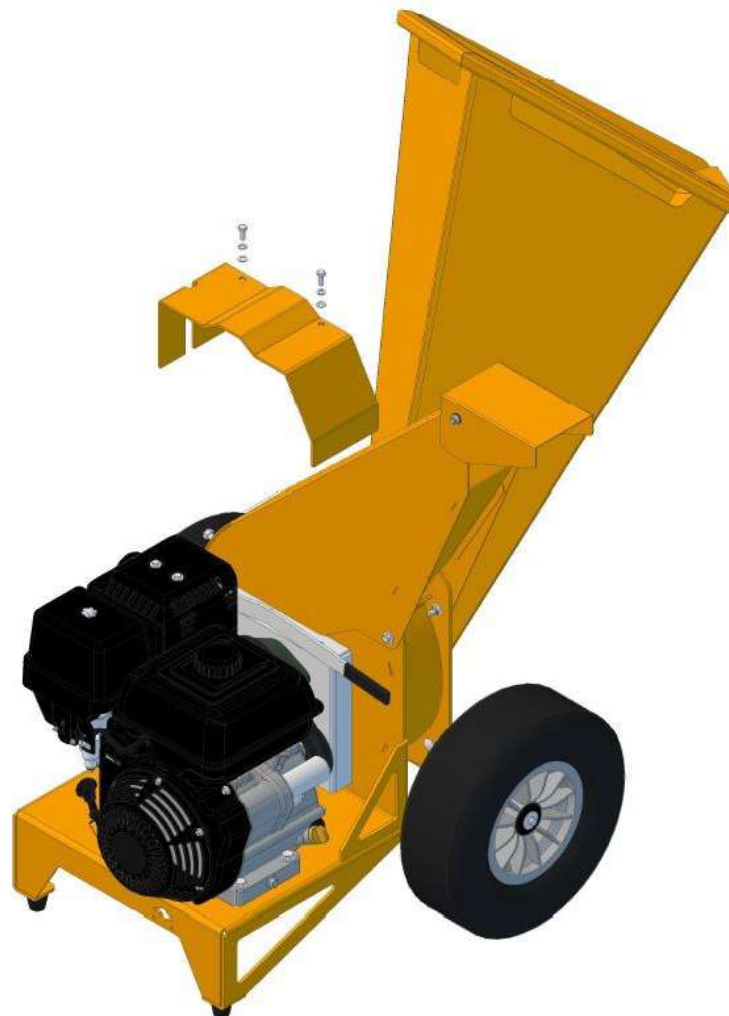
## 3D VIEW: BELT TENSION



## FRONT VIEW: BELT TENSION



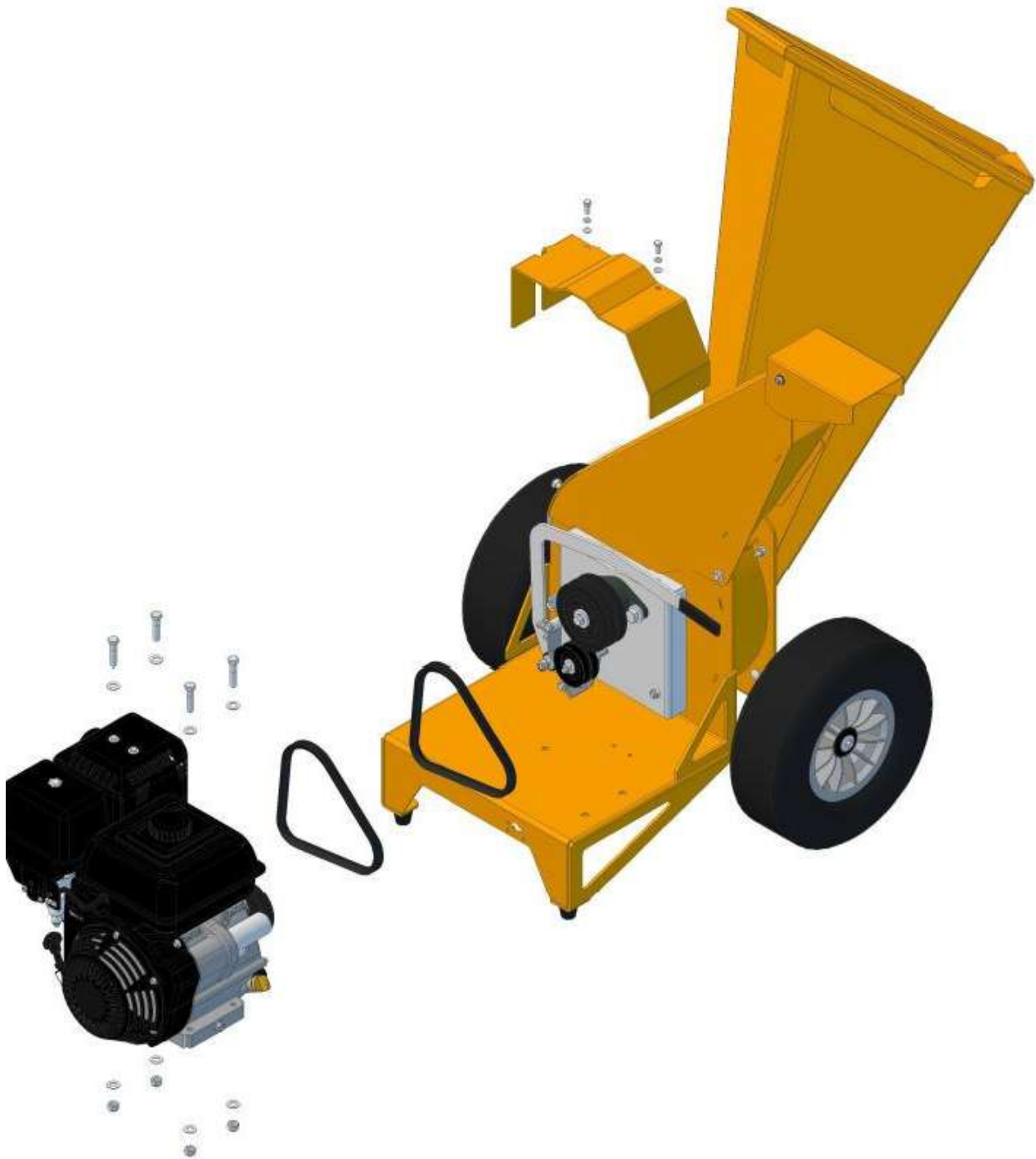
## 3D VIEW: BELT REPLACEMENT



## CS9-392V BELT TENSION & REPLACEMENT

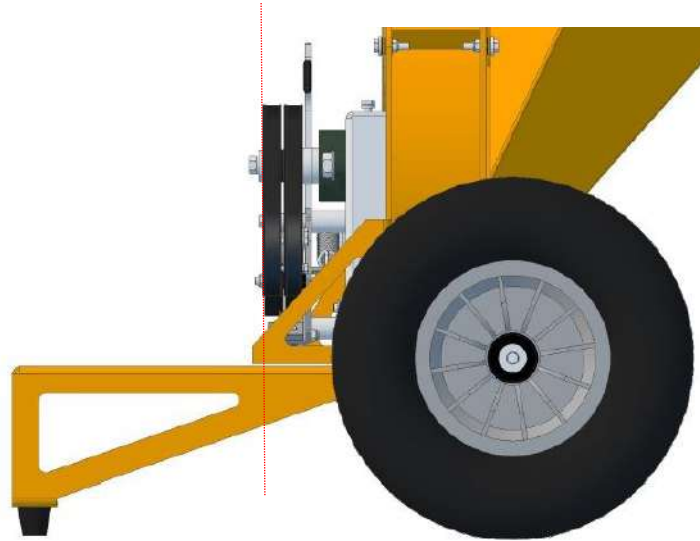
### TIGER CHIPPER SHREDDER CS9-392V: BELT REPLACEMENT

Remove top 2 hex bolt to remove belt cover  
Remove 4 hex bolts and nyloc nuts to remove  
the Vanguard 13 HP Engine  
Once engine is unscrewed the pulley belts  
will be loose and be able to be removed



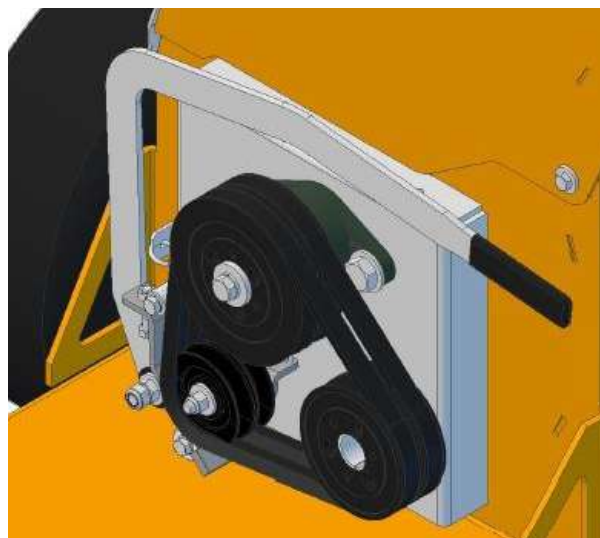
## CS9-392V BELT TENSION & REPLACEMENT

### TIGER CHIPPER SHREDDER CS9-392V



Once new belt is fitted, ensure all pulleys are inline by placing a straight edge across the face of them to make sure the top and bottom pulleys are aligned.

### ASSEMBLED PULLEY SYSTEM: CS9-392V



Diagrams shows correct pulley assembly for the CS9-392V TIGER Chipper Shredder  
NOTE: Engine not shown for viewing of the pulleys.

## TIGER CHIPPER SHREDDER LIMITED WARRANTY

The TIGER Warranty applies to new purchased TIGER products manufactured by Stevens Group as identified by the Machine Serial number as part of this registration process. The product is warranted to the original owner for 12 months as per the completed warranty registration held at Stevens Group. Replacement parts are warranted for 90 days from installation.

To qualify for this TIGER Limited Warranty, the warranty registration must be completed within ten (10) days following the date of purchase, and returned to Stevens Group.

To take advantage of the TIGER Limited Warranty you must have maintenance performed per the schedule contained in the Owner's Manual supplied with this product by an authorised TIGER Dealer. To ensure the safe operation of this product, we strongly recommend that you only use an authorised TIGER Dealer for servicing. The cost of routine or required maintenance and services is the responsibility of the purchaser.

Stevens Group will recognise your statutory rights under the Consumers Guarantee Act 1993.

Stevens Group warrants to the original owner, each new TIGER Chipper Shredder free from defect in material and workmanship, under normal use and routine servicing for the warranty period specified below and conditional to the limitations and exclusions outlined below.

Model CS9-392V are classified as prosumer grade products and will qualify for warranty coverage if used for Commercial purposes. If used for rental purposes warranty is limited for 90 days

The purchaser must keep a record of all service and maintenance history as proof of servicing history. This may be requested when assessing any future warranty claim.

The warranty registration must accompany the TIGER product when warrantable repairs are requested. If the warranty registration is lost or destroyed, proof of purchase documentation clearly recognising the machine serial number shall be accepted for warranty purposes. Where neither is available and Stevens Group does not have any record of the purchaser's details the warranty period shall be calculated from the appropriate dealer wholesale sale date. Any claim under this warranty must be made within the warranty period specified below.

Any authorised TIGER Dealer is further authorised to repair or replace any part which proves defective within the limits of this warranty at no charge to the owner, covering parts and labour. **Consumables items such as but not limited to oils, grease, blades and belts shall be the responsibility of the owner.** All defective parts replaced under this warranty become the property of Stevens Group. Transportation cost for the product either to or from an authorised TIGER Dealer is the responsibility of the owner.

This TIGER Chipper Shredders Limited Warranty may be subject to cancellation if the above requirements are not met.

### Exclusions

The warranties contained herein shall not apply to:

- Any damage which results from misuse or use beyond the limitations of the intended purpose specified by Stevens Group, such as overloading, including foreign objects such as glass, stones, pieces of steel etc. being dropped into the running machine or use under abnormal conditions (in Stevens Group's sole judgement).
- Any damage which results from neglect of periodic maintenance specified by Stevens Group.
- Any damage which results from repair or maintenance operations by methods other than specified by Stevens Group.
- Any damage which results from use of non-genuine parts, lubricant or fluid not approved by Stevens Group.
- Any damage which results from operation other than specified in the Owner's Manual either intentionally or by error.
- Any damage resulting from modification or installation in other products in a way not approved by Stevens Group which has any influence on the function and/or performance of the products.
- Fading of painted surfaces, deterioration of plated surfaces, deterioration of rubber and plastics including rusting, due to the passage of time.



- Normal phenomena such as noise, vibration or oil seepage which are considered by Stevens Group as not affecting the quality, function or performance of the product.
- Any damage due to improper storage or transport.
- Consumable replacement items: Belts, cutting blades, anvil, serviceable bearings.
- Periodical maintenance items such as cleaning, inspection and adjustments.
- Any repair and/or adjustment performed by persons other than an authorised dealer, or damage resulting there from. As a rule, warranty shall not be applied to the repair or adjustment performed by persons other than an authorised dealer.
- Any repair and/or adjustment to correct improper or poor quality work previously performed.
- Incidental expenses incurred in the warranty claim. (E.g. additional expenses such as those for towing, incurred due to breakdown of the product at a remote location, hotel and meals or communications. Any expense related to personal injury and/or property damage, (exclusive of the product itself). Compensation for loss of time, commercial losses or rental costs of a substitute product during the period of adjustment.
- Any damage which results from unavoidable natural disasters, fire, collision, theft, etc.
- Any normal wear or deterioration, such as that of sliding or rotating parts caused under normal operating conditions. For example: normal wear pivot points, rod ends and bearings.
- Any damage resulting from exposure of the product to soot and smoke, medicines and chemical agents, sea water, sea breeze, salt or other environmental phenomena.

### Limitations

- TIGER Chipper Shredder reserves the right to modify, alter and improve any product without incurring any obligation to replace any product previously sold with such modification.
- Equipment and accessories not manufactured by Stevens Group (such as engine, battery and tyres), are warranted only to the extent of the original manufacturer's warranty and subject to their allowance to Stevens Group only if found to be defective by such manufacturer.
- In no event shall TIGER Chipper Shredder Warranty exceed the purchase price of the product.
- Stevens Group reserves the right to supply remanufactured parts as it deems appropriate.

MACHINE WARRANTY TYPE	MACHINE WARRANTY PERIOD
Non-Registered	6 Months
Registered	12 Months (Conditional)*
Domestic	24 Months
Rental	90 Days

***Stevens Group Equipment reserves the right to make design and / or specification changes at any time to its products without obligation to previous purchasers of its products.***

### Contact Details

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**293 Landing Drive**  
**Mangere, Auckland New Zealand 2022**

## TROUBLE SHOOTING

PROBLEM	PROBABLE CAUSE	SUGGESTED REMEDIES
Rotor does not turn	Obstructed discharge	Use branch or similar object to clear discharge
	Plugged rotor	Clear rotor
Hard to feed chipper or excessive power needed to chip	Obstructed discharge	Use branch or similar object to clear discharge
	Dull chipper blades Sharpen blades	Sharpen Blades
	Improper blade clearance	Adjust clearance
Chipper requires excessive power or stalls	Obstructed discharge	Use branch or similar object to clear discharge
	Plugged rotor	Clear rotor, feed material into shredder more evenly
	Green material will not discharge	Alternately feed dry material, or allow material to dry
Drive belts squealing or smoking	Plugged rotor	Clear rotor
	Loose or worn belts	Adjust belt tension or replace belts if needed
Vibration while running	Drive head vibration	Check drive belts and pulleys for bad or worn spots
	Rotor out of balance	Inspect rotor for broken or missing chipper blades and paddles. Repair if needed. Check rotor to see if it wobbles. Check to see if the rotor is assembled correctly
Engine dies or runs poorly	Engine problems	Contact local Vanguard dealer

## COMMISSIONING CHECKLIST & REGISTRATION

It is the retailers responsibility to ensure that this machine is correctly commissioned for use, and that the purchase is registered with Stevens Group, and the Engine is registered with the Vanguard Agency to provide the owner with the full benefit of the warranty policy.

**Product registration must be completed and returned to Stevens Group.**

**For registration info you will require the machine serial number, the engine serial number and customer details.**

### ***IT IS THE RETAILERS RESPONSIBILITY TO CHECK THE FOLLOWING:***

**Final Assembly** Check all bolts for tightness including blades.

**Operation** Instruct the owner/operator on operating procedures and techniques.

**Safety** Instruct owner/operator on safety procedures.

**Maintenance** Explain the maintenance requirements and the importance of following the maintenance schedule to the owner/operator.

**Manual** Emphasise the importance of reading and understanding the manual in full before initial operation of the chipper shredder.

## ACCESSORY GUIDE

### OPTIONAL DRAW BAR KIT



### OPTIONAL ROAD TOWABLE BASE





Distributed in New Zealand by:  
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