

RedGum CHIPPER SHREDDER

Series II

POWERED by
HONDA™

Owner's Manual



Image for illustration purposes only

This manual accompanies RedGum's
Chipper Shredder Series II
Powered by the Honda GX200 engine

 **WARNING**

Read this manual, before operating the RedGum Chipper Shredder.



READ BEFORE USE

PLEASE KEEP THIS MANUAL FOR FUTURE REFERENCE

Read this operation manual carefully before attempting to assemble, adjust or operate the machine. Please read the included **Honda GX200 engine manual** for more information on the engine.

Hazard Signal Word Definition



Attention & Warning



Danger - Rotating blades. Keep hands and feet out of openings while machine is running.



Check if any fuel spills or leaks. Stop the engine before refuelling.



Exhaust gas contains poisonous carbon monoxide. Never operate the chipper in an enclosed area. Be sure the work area has adequate ventilation. Also avoid working downwind from exhaust.



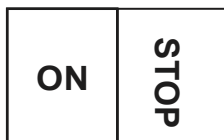
Recommended oil type: **SAE 10W30** for Honda engine.



Moving the lever will adjust the revolution speed of engine. Move lever towards the rabbit icon for speeding up and towards the tortoise direction for slowing down. When operating, chipper lever needs to be on the rabbit icon.



The fuel supply to the engine can be turned off.

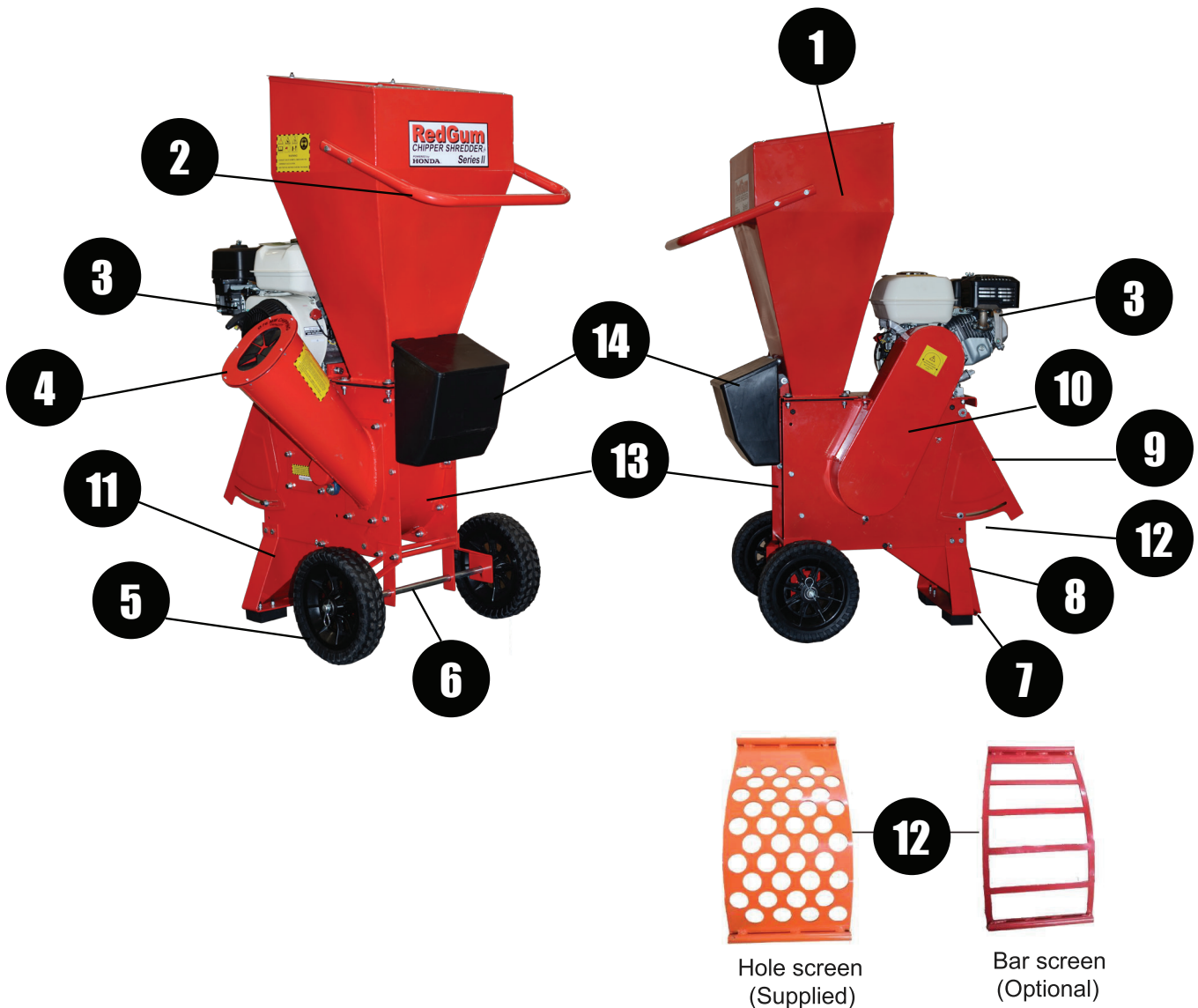


This label is for the engine switch. If you want to start the engine, put the switch to 'ON' position. Turn the switch to 'STOP' position to stop the engine.

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Chipper Shredder Component Definitions



- 1.) Shredder Hopper opening. Feed plant matter with (Maximum Limb) Diameter of 10mm into here
- 2.) Wrap Around Handle
- 3.) Engine
- 4.) Side Chipping Chute - plant material (up to 75mm diameter) to be fed in here
- 5.) Puncture proof wheels - For less maintenance
- 6.) Rear Wheel Axle
- 7.) Front Support Legs
- 8.) Discharge bottom chute (must be angled down towards the ground)
- 9.) Discharge top chute (adjustable)
- 10.) Belt & Pulley Cover
- 11.) Blade Cover
- 12.) Outlet screen inside discharge chute
- 13.) Chipper Body Housing
- 14.) Storage Compartment



Safety Warnings

1. Never allow hands, feet, or any other part of the body to enter into the shredder hopper (1).
2. Never place hands, feet, or any other part of the body close to discharge chute opening (8) while machine is in operation.
3. Do not peer into the shredder hopper (1) or discharge chute opening (8) when the machine is running.
4. Never allow metal objects or other similar hard objects to go into machine.
5. Never allow children to operate machine.
6. Never operate your chipper shredder under the influence of alcohol, drugs or medication.
7. Never assemble or disassemble any parts of the machine while machine is operating.
8. Never allow children, pets or bystanders in operation zone. Keep them to a minimum of 10 metres away.
9. Never run machine in an enclosed area since exhaust from engine contains carbon monoxide which is poisonous.
10. Never wear loose clothes or long jewellery when operating machine and keep long hair under headgear. Do not wear shoes with high heels.
11. Wear ear protection, safety goggles and gloves at all times while operating the machine.
12. Be extremely cautious of rotating blades in machine.



Operating Instructions

Training

Make sure you fully understand the RedGum Chipper owner's manual and engine owner's manual before attempting to operate this machine.

Preparation

1. Put the machine securely on a level surface
2. Keep the operator area clear of other objects
3. Before operating the machine, please check the direction of the wind to avoid working downwind of exhaust.
4. Examine the machine to make sure it is in good condition. Check that all the screws, nuts and other fasteners are properly secured and outlet screen (12) are in place.
5. Pay attention while handling fuels. They are flammable and the vapours are explosive. The points below should be followed at all times.
 - Never remove the fuel cap or add fuel while the machine is operating.
 - Stop the engine, and allow the engine and exhaust to cool before refuelling
 - Never add fuel to the machine while indoors.
 - Do not smoke while adding fuel.
 - Never refuel or store the machine where there is an open flame, spark or other ignition objects.
 - Always ensure the fuel cap is in place & securely tightened before starting the engine.
 - If the fuel tank needs to be drained, it should be done outdoors.

6. Keep all guards and deflectors in place and check to see if they are in good working condition, before starting chipper.
7. To move the chipper, firmly hold the handle (2) with both hands, step on the rear wheel axle (6) with one foot, and lean the machine backward. Pay attention to keeping control of the machine & walk slowly into position.

While Chipper is being used, ensure the following practises are adhered to:

1. Make sure the plastic cover in shredder hopper (1) is closed when your shredder is running. Chips will fly upwards with force and can be very hazardous.
2. Do not use hands or metal tools to push material into the shredder hopper (1).
3. Keep your face and body away from the shredder hopper (1) opening.
4. Do not allow body parts or clothing inside the shredder hopper (1), discharge chute (8), or near other rotating parts.
5. Do not touch the engine (3) muffler while chipper is in operation as it will be hot & can cause burns.
6. Keep proper balance and footing at all times. Do not overreach and never stand at a higher level than the base of the machine when feeding material into it.
7. Check if there is abnormal noise, smoke or shaking of machine. If so, please turn off engine immediately and solve the problem. Inspect for damage; check for and tighten any loose parts and ensure damaged parts are replaced or repaired before continuing to operate the chipper.
8. The chipper will chip branches up to 75mm in diameter. Branches with larger diameters (from 50mm up to 75mm) will need to be fed into the chipper slower compared to branches with a small diameter.

Please Note: only feed material into the chipper when the chipper is operating at optimal revolutions

9. Do not allow processed material to build up outside the discharge zone (8); this will interfere with ongoing discharge and can result in the buildup of material back into the discharge zone and stall the machine.
10. If the machine seems to be struggling, it could be clogged, stop feeding material into the machine & wait. If no improvement, turn off the chipper before clearing the debris. Keep the engine clean.
11. Never put something on the cover of the shredder (1) hopper in case it falls into the machine.
12. Make sure the opening of the side chipping chute (4) is always covered, while not at work, in case children place objects into the side chipping chute (4). This can cause trouble in restarting the machine and also damage the drive V-belt.
13. Do not move or tilt the machine while the engine is running.
14. Turn off the machine when finished, and turn off the fuel tap before transporting the machine.

Starting the Engine

1. Move the fuel valve lever to the "ON" position.
2. To start a cold engine, move the choke lever to the "CLOSED" position. If the engine is already warmed up, leave the choke lever in the "OPEN" position.
3. Move the throttle lever toward the "FAST" position. Turn the ON/Off switch to the "ON" position.
4. Take hold of the starter recoil grip firmly and pull slowly until there is resistance, then pull briskly to start engine. Repeat as necessary.
5. If choke lever has been used as engine warms up, gradually move the choke lever to the "OPEN" position.

Chipping Branches - Using the Side Chipping Chute (4). This chipper is designed to chip " Green" or Fresh Cut branches up to 75mm in diameter. Dry branches may need to be smaller and feed more slowly into the machine

1. Start engine & allow engine to gain optimum revs – slide rev lever to rabbit.
2. The chipper is located on the side of the unit. Only feed one branch at a time into the side chipper chute.
3. Feed long stems and branches (ie. shrub and tree branches) into the side chipping chute for chipping by the rotating blades.
4. Material discharges from the bottom of the chipper/shredder. Stand clear of discharge areas to avoid shredded debris.
5. Shoots and twigs may have to be trimmed from the main branch to allow the branch to fit into the chipping tube.
6. When feeding branches listen to the machine & watch to ensure chips exit from the bottom of the discharge chute (8). Thicker branches will take longer and need to be fed slower than thin ones.
7. Short stubs of branches (shorter than the chipping tube or chute) may need to be pushed through the chipper chute with the next branch (never use your hand) or with the optional RedGum side feeding tool. Short stubs will "bounce" inside the side chute until chipped. This is normal but please do not turn off the chipper until the short stubs have been completely chipped. See **Note** below.
8. Push the last branch you are chipping for the day all the way inside the side chute with a tool (ie. wooden stick or optional RedGum side feeding tool) and ensure it has been completely chipped before turning off the machine.
Note: Leaving unchipped branches in the chipping chute can cause problems when next starting the chipper and damage the drive V-belt.
Warranty Note: If this happens, the damaged belt is not considered a manufacturer's fault and will therefore not qualify for warranty.
9. Cover the side chipping chute once you have finished chipping to prevent foreign obstacles from being fed into the side chute when not in use.

Shredding Leaves, Weeds and Foliage - Using the Shredder Hopper (1). This Chipper is designed to shred leaves, twigs & foliage up to 1cm in diameter.

1. Start the engine and allow engine to gain optimum revs - slide rev lever to rabbit.
2. Without putting your hands into the shredder (on top), slowly drop material into the hopper (one lot at a time). The machine will automatically pull material in.
3. Feed leaves and thin stalks (nothing thicker than 1cm in diameter) into the shredder hopper (1). Feed the material freely but when feeding material into the Shredder Hopper listen to the engine revs of the machine & watch mulch exit from the bottom of the discharge chute (8). If the machine sounds like it is struggling, stop feeding material until normal operation sound resumes.
4. Do not lift the plastic cover when adding material.
5. Keep your face and body away from the top of the Shredder Hopper (1) to avoid being struck by any material that may bounce back or fly upwards.
6. If the material is too moist the discharge screen can become clogged. If clogging occurs stop the engine before cleaning.



IMPORTANT: Never attempt to clear an accumulation of processed material inside the Discharge Chute (8) when engine is still in operation.

7. Increasing the output (productivity) of the chipper can be achieved by removing the screen with the round holes from the discharge chute (8) and replacing it with the optional "Bar screen" or using no screen at all. The material coming out of the discharge chute will be coarser. If you want to reduce particle size refeed the material back into the shredder hopper or refit the round hole screen.

Right Way



Wear glasses, earmuffs and gloves while operating machine. Feed material into chipper from a safe working distance.

Wrong Way



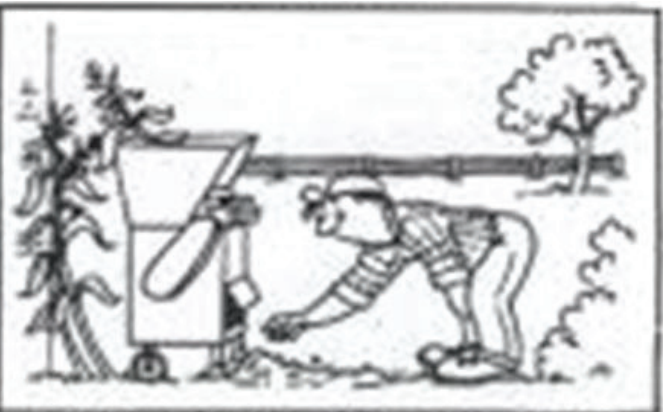
Don't allow hands to enter into hopper. Don't peer into hopper while it is operating.

Right Way



Turn chipper off and clear discharge area of machine with spade, rake or long handle tool.

Wrong Way



Do not clear discharge area while machine is operating. Never place any part of your body into discharge area while machine is operating.

Right Way



If material bridges in hopper use stick or wooden tool to move material down into the hopper.

Wrong Way



Do not allow pets, children or by standers in operating area.



Maintenance & Storage

1. When the machine needs servicing, parts replaced, inspection, or needs to go into storage, turn off the engine, make sure all moving parts have completely stopped and allow the machine to cool before doing so.
2. Store the machine where fuel vapors cannot reach an open flame or spark. If in storage for longer than one month, drain the fuel out of the machine.
3. To assess if the cutting blades need servicing, or replacing, they can be accessed through the side of the chipper body (13) by removing blade cover (11).
4. For information regarding the maintenance of the engine please refer to the engine operations manual.

Replacing the Blades

The cutting blades will become dull after being used for some time. An accurate measure of time blades stay sharp cannot be given because it will depend on the type of material being chipped, and the dirt contaminating the material being chipped.

When the chipping performance slows, remove the blade and check if it is dull by:

1. Turning off the engine & removing spark plug cover

- Remove the plate covering the blade (11)
- Fully open the discharge top chute (9)
- Remove the discharge screen

2. Wear safety gloves, turn the flail tray inside the chipper body (13) so the blades align into the proper position (They can then be accessed through opening under the blade cover (11).

3. Remove the location screws on the blade. Please note some blades have two cutting edges, if so, you can turn the blade over and use the unused edge.

4. Alternatively, remove blade & replace with new blade by...

5. **cleaning blades & blade holder**, put new blades back to the place where the old blades were removed from and tighten.

6. Replace the plate covering the blade.

7. Replace the discharge screen.

8. Re-adjust the outlet of the discharge top chute (9).

Adjusting the Drive V- Belt Tension

There is a 'V' belt under the drive V-belt cover (10). This belt connects the engine to the blade tray. The belt will loose tension over time. To re-adjust tension:

1. Turn off the engine and remove the belt cover.
2. Loosen the four engine location nuts.
3. Move engine forward till the 'V' belt is tight.
4. Put the main pulley and affiliated pulley in the same plane. (A ruler can be used to measure if lack of experience). Tighten the four location nuts holding the engine.
5. Replace the belt cover.

Replacing the V-Belt

1. Turn off the engine and remove the belt cover (10).
2. Remove the old belt.
3. Place the new belt in the main pulley first (engine pulley) and then to the affiliated pulley beside the flail tray.
4. The new belt will be tighter than the old belt. If you need to adjust the belt tension, see information above (points 2 - 4).
5. Replace the belt cover.

Specifications

Chipper Chute Capacity.	75mm Maximum Diameter
Chipper Chute Dimension.	20.9x16.9 (cm) Oval opening
Shredder Hopper Capacity.	10mm Maximum Limb Diameter
Shredder Hopper Dimension.	43 L X 36 W (cm)
Recommended Accessories.....	Protective Glasses, Earmuff
Wheel Type.....	10" flat free tires
Engine Type.....	Honda GX200
Overall Size.....	93.5 x 74.4 x 132.5 (cm)
Packaging Size.	75 x 47 x 90 (cm)
Weight	75Kg

NOTE: For Engine Details Refer to the Engine Owner's Manual provided

This product requires oil and fuel to be added to the engine before starting. Attempting to start the engine without oil will ruin the engine and void the warranty.

YOUR LOCAL REDGUM DEALER

You can engage your local **RedGum Servicing Dealer** in order to repair, service or to carry out maintenance tasks. Your local RedGum Dealer will also be able to supply replacement parts for your RedGum Product. For more information about your RedGum Product visit www.RedGumProducts.com.au or call **1300 039 251**

ACCESSORIES AVAILABLE

Redgum Side Chute Feeding Tool

Helps to push branches through the chipper & prevents chipper blades from becoming clogged



Redgum Screens

- Screens with holes or finer output material
- Screen with bars: For coarser output material



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